

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61054 Entry Year 2024 Acreage: 4,149

County Grand Traverse

Management Area: Boardman Plains

Stand Examiner: Pat Ruppen

Legal Description:

T26N - R9W - Sections 25-35

Identified Planning Goals:

Three sub-sections of the Land Type Association (LTA) VII .2 High Plains are found in this Compartment. A portion of the Compartment (lands in sections 25,26 and 35) falls within LTA 2221. This is described as coarse textured end moraine with Roselawn Loamy sands. Currently much of this land supports plantation pine which was planted on old depleted farm fields. Some of these plantations have been harvested recently and re-started while others are still under a thinning regime. State managed lands in sections 26-30 are found on LTA 5.1..1.1 which is described as flat or gently rolling with deep sandy outwash. This LTA is relatively low in fertility and productivity. Historically fire dependent conifers were found in association with oak and red maple. Jack, White and Red pine were common in mixed densities. Northern hardwoods would be found on less fire prone sites and in association with Kalkaska Sands. Fires on this sub-section were extensive, intense, and often covered several square miles. The stands on these sites were generally created after the last cycle of fires; which followed extensive harvesting in the early part of the last century. Stands of jack pine, oak aspen and birch were generated after the fires. Some stands have a red pine component due to planting efforts following the fires. The remaining (un-harvested) pine oak stands from this genesis are past desired rotation age and attention should be given to restarting some of these stands. A definite trend is evident for some of these pine dominated stands to move toward a heavier oak component. Most of the previously pine dominated stands that have been harvested in the last 10-30 years have converted to oak dominated stands. Some of these stands have been planted with red pine resulting in mixed upland stands with a red pin component. Although conversion to oak has been encouraged in the past an effort will be made in this entry to restart red pine on some of the remaining pine stands. A number of stands were partially harvested with shelter wood or seed tree harvests in previous entries. If adequate regeneration has formed in the sub-canopy, re-treat these stands to remove most remaining canopy; with the intention of releasing the advanced regeneration. Some aspen clones are found on this sub-section and should be managed for age class distribution. Sub-section 5.1.2.1 is deep well drained outwash mainly composed of Rubicon and Croswell loamy sands. This cover the parts of this compartment in Sections 32-34. These soils are slightly more fertile than surrounding soils. This area is laced with drainages of Parker Creek and associated headwaters. Upland areas are mainly aspen dominated stands with pines and oak. These stands should be managed for age class distribution. Some lowland areas in this part of the compartment have extensive blowdown but associated with this is heavy natural regeneration with an impressive amount of cedar. The tangled blowdown areas seem to be impenetrable for deer. An opportunity exists on a part of this compartment to manage for a high aged natural pine complex. This area between forks of Twenty-two Creek involves stands 108, 103, 118, 126, 141, 147, 149. A Special Conservation Area has been proposed for this area to manage towards old aged natural pine/oak. Stand 47 and part of Stand 40 are also areas with a significant amount of legacy trees.

Soil and topography:

Rubicon –Roselawn, Croswell and Roscommon Sands with Rifle Peat and Lupton Muck along creeks. The area is level to very slightly rolling.

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

Stand 47 has been nominated for potential old growth as should part of stand 40.

State and private lands are inter-mingled. Primarily state lands to the north and west. Private lands are rural in nature.

Unique Natural Features:

A branch of twenty-two creek goes underground in sec 28. SCA for older aged forestland between branches of Parker Creek in Section 27. Unique older timber in stands 20 and 47. Stands 73 and 79 are a small barrens area area. This area should be maintained.

Archeological, Historical, and Cultural Features:

The grave of Emma Northrup '1875' ("The Little girl's grave") is located within this compartment. An old homestead was located in section 25.

Special Management Designations or Considerations:

Headwaters of Parker Creek in Sections 33 and 34. SCA for older aged forestland between branches of Parker Creek in Section 27. Unique older timber in stands 20 and 47.

Watershed and Fisheries Considerations:

This compartment contains portions of Parker Creek (both the North and the South Branches) and Twenty Two Creek. All of these streams are State designated trout streams, and Twenty Two Creek falls under the jurisdiction of the Boardman River Natural Rivers Plan. Parker Creek has a history of beaver activity which impacts the local trout population, and cuts that encourage beaver activity should be avoided. All three of these streams are hosts to naturally reproducing populations of brook trout and brown trout, and are considered high quality cold-water tributaries to the Boardman River.

Wildlife Habitat Considerations:

A very small percentage of this compartment falls on a ground moraine which typically has some of the better soils in this area. Existing mixes of pine/oak/aspen/hardwood forest should be maintained with small patch cuts and thinning, retaining snags and other habitat elements as much as possible. Some succession to mature white pine forest and hardwood is desirable in the long run.

Most of the compartment falls on an outwash plain which was historically prone to frequent burning and harbored mixed pine forests, barrens, and some components of oak and northern hardwoods. This landscape should continue to be managed for a variety of successional stages of pine-oak-aspen forest and grass-scrub openings, with some mid to late successional forest in places. A few stands could be allowed to gradually succeed to mixed pine forest, while others should be set back through timber harvesting. Such harvesting should incorporate residual live trees, snags, and some down logs to replicate within-stand habitat structure left after wildfires. Prescribed burning will also help maintain barrens habitat. Oak is a very important component of forests here and should be maintained or regenerated as much as possible. Species associated with pine-oak-aspen mixed forest and Openland habitat, such as badger, wild turkey, scarlet tanager, hog-nosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, deer, hairy woodpecker, and gray squirrel will benefit from management here.

Pine plantations should incorporate tree species diversity and structural diversity as much as possible. Important deer yarding areas along creek bottoms should be maintained in swamp conifer cover. Management of pine stands should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys.

There is also a section of outwash plain that lies south of Parker Creek and is somewhat protected from running wildfires by the ground moraine to the southwest and the creek to the north. Consequently, historic forests consisted of beechmaple, mixed pine-hemlock, and cedar in low areas. Past management resulted in stands of aspen. Much of the area has a high water-table. The productive game habitat here is popular with many hunters. Some areas could be allowed to succeed naturally if access is a barrier. Beaver flooding along Parker Creek has created important aquatic habitat for herons, wood duck, tree swallows, and bats, and many other species.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits occur in the area. There is good potential for sand and gravel within the compartment. Any surface mining operations would have to avoid oil & gas infrastructure. Apart from sections 25 and 26, the entire compartment is currently leased for Silurian reef hydrocarbon production. There appear to be four actively producing wells within the compartment. The remaining leases are being held by legacy agreements. There could be potential for additional reef discoveries within the compartment as well as future gas storage potential. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Access south of Parker Creek drainages is difficult due to private lands and low areas. Access is generally good throughout the rest of the compartment.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

North Country Trail, Shore to Shore Horseback Trail, Grand Traverse Motorcycle Trail and the Boardman Valley Snowmobile Trail. Also miles of new un-authorized motorcycle trail flagged through compartment and lightly ridden. There seems to be a covert attempt to re-locate all the motorcycle trail in the compartment.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

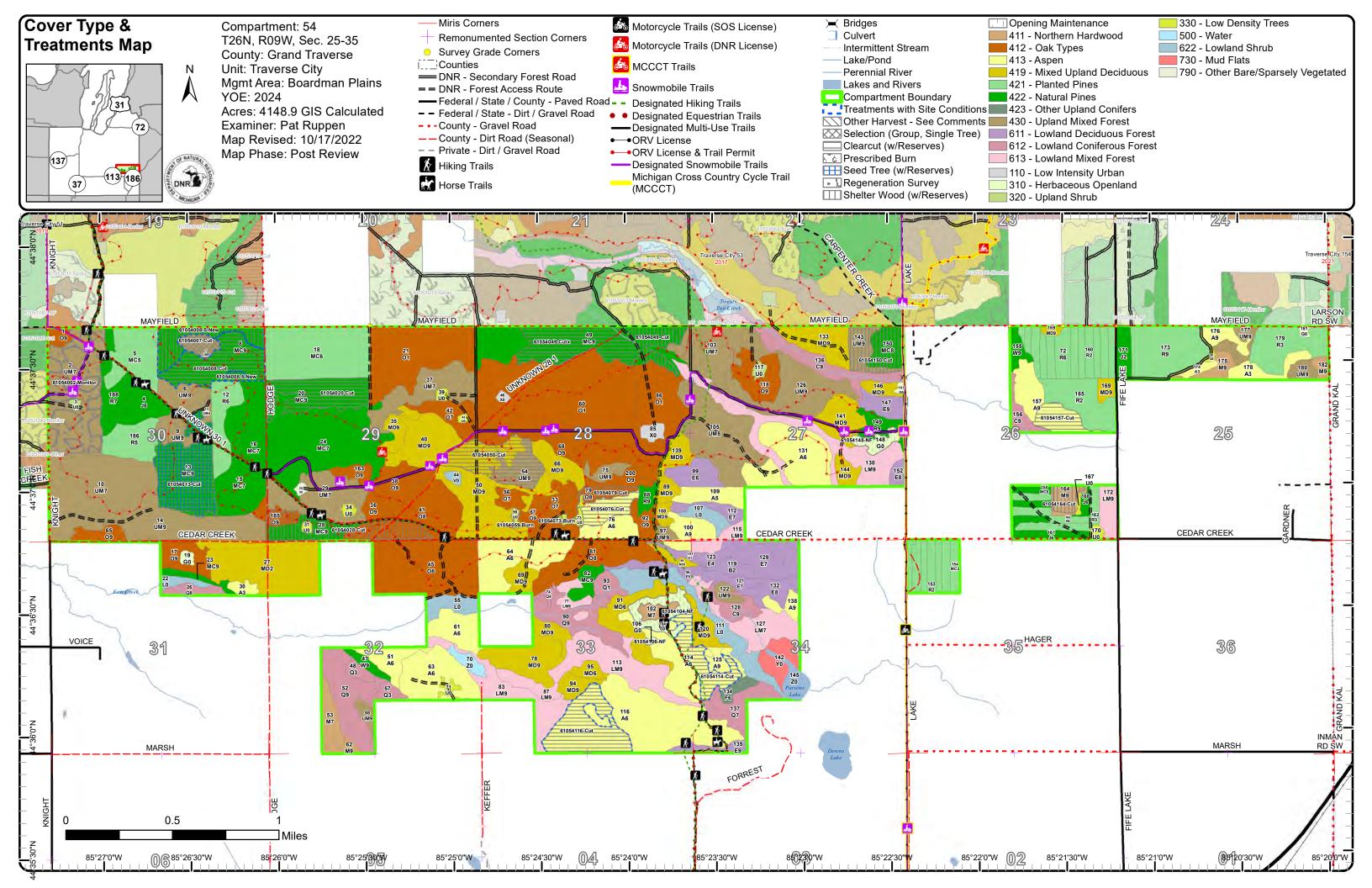
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

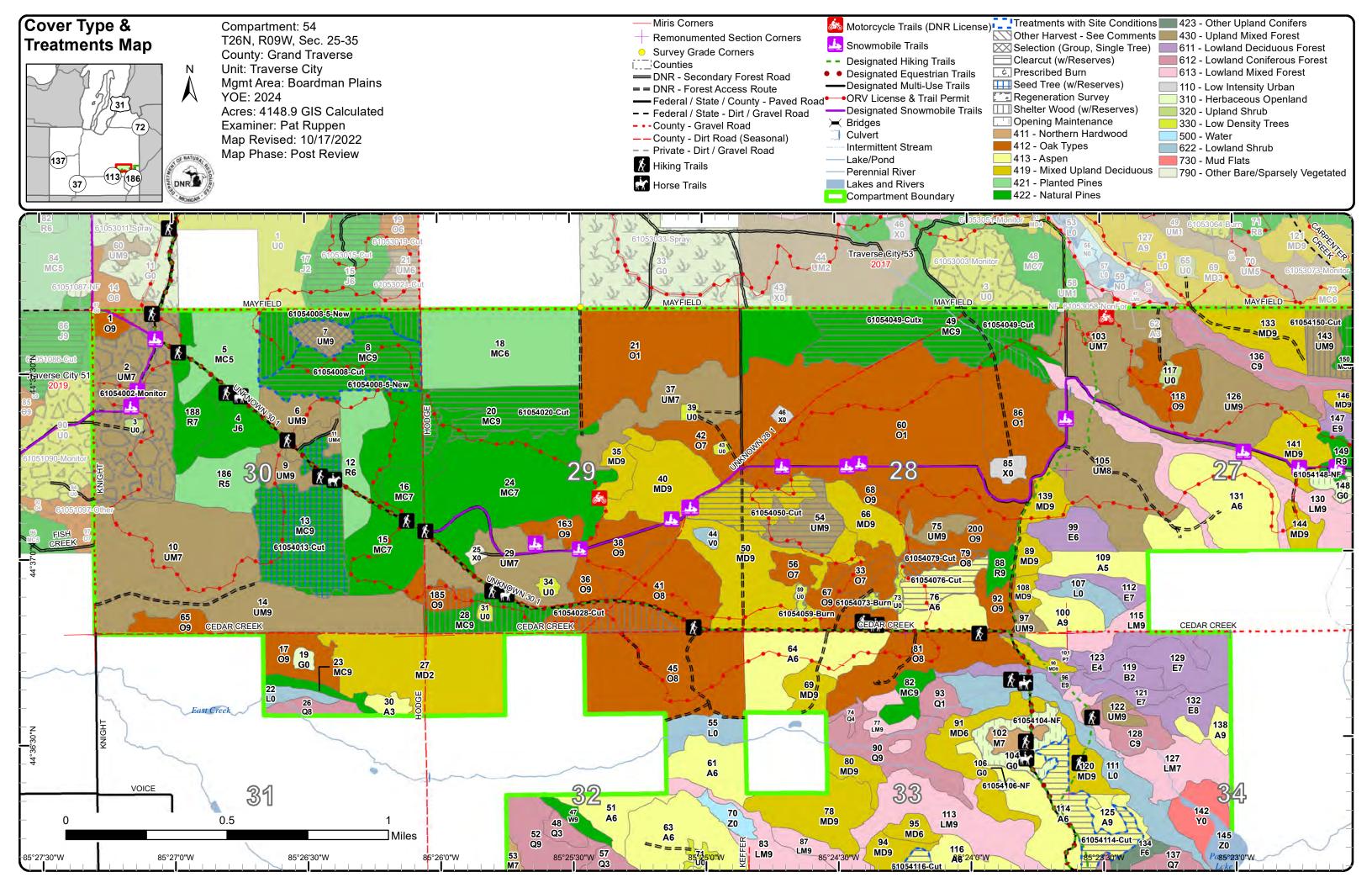
The following information is displayed, where pertinent, on the attached compartment maps:

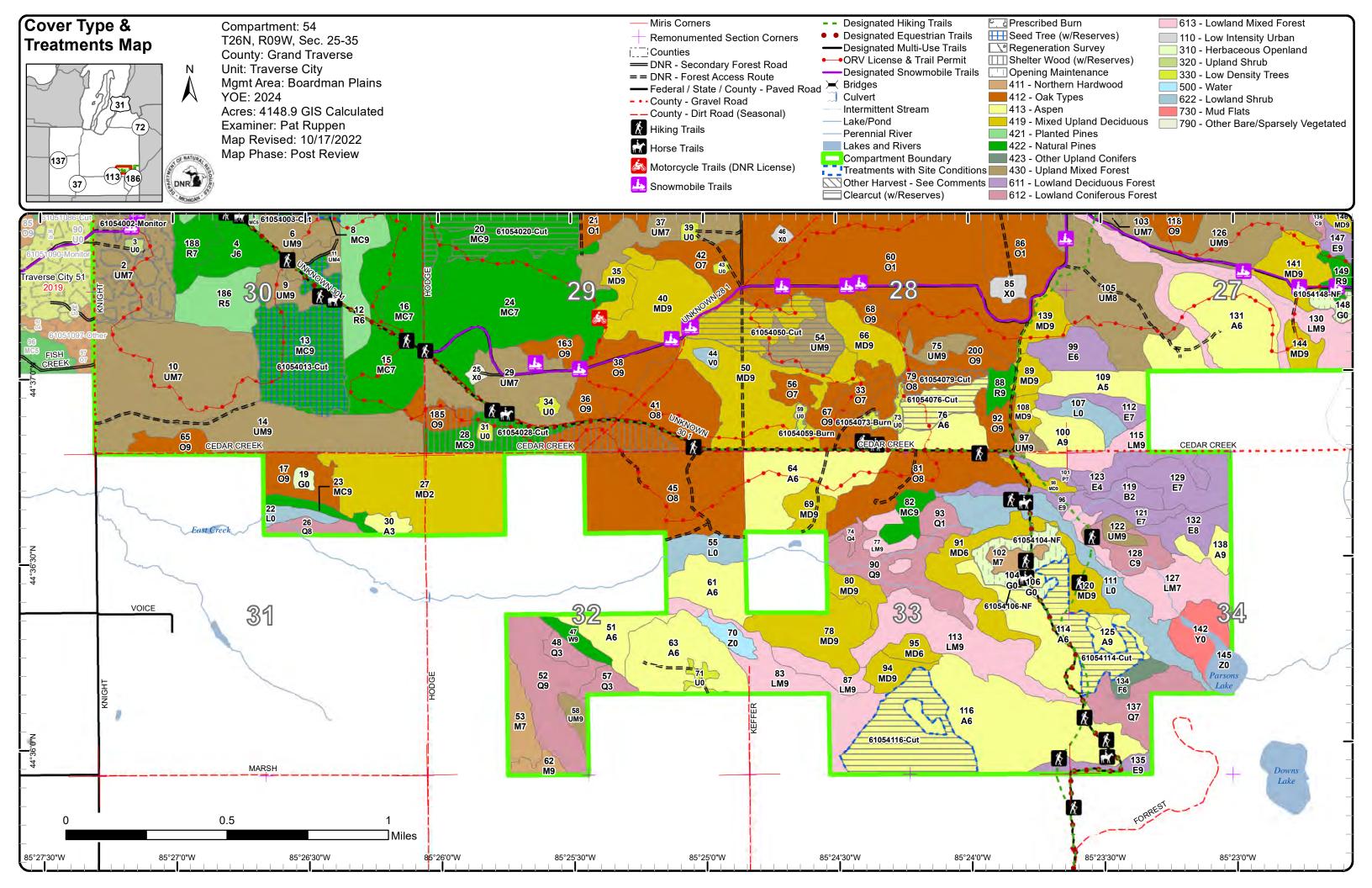
Base feature information, stand boundaries, cover types, and numbers Proposed treatments

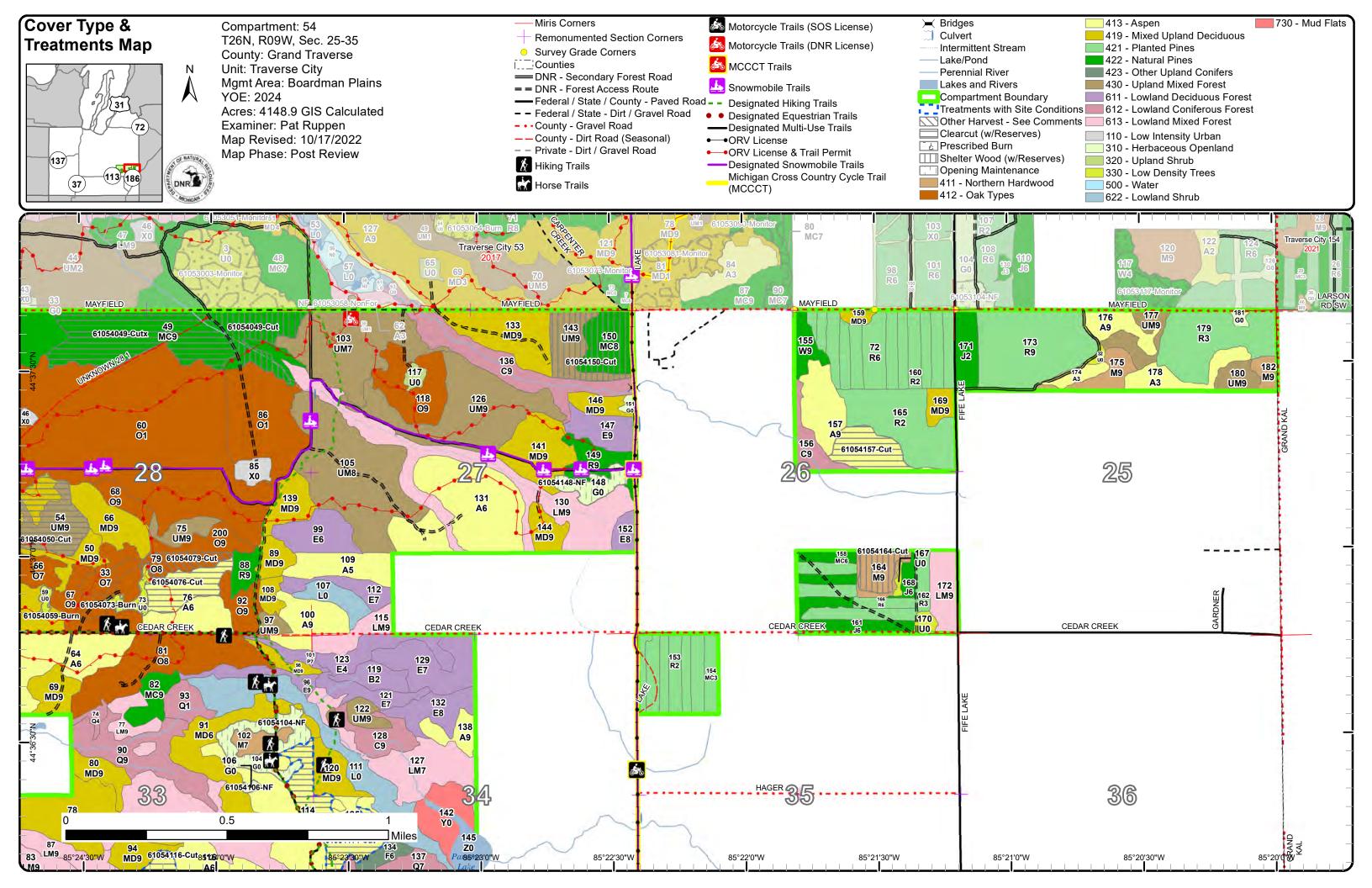
Site condition boundaries

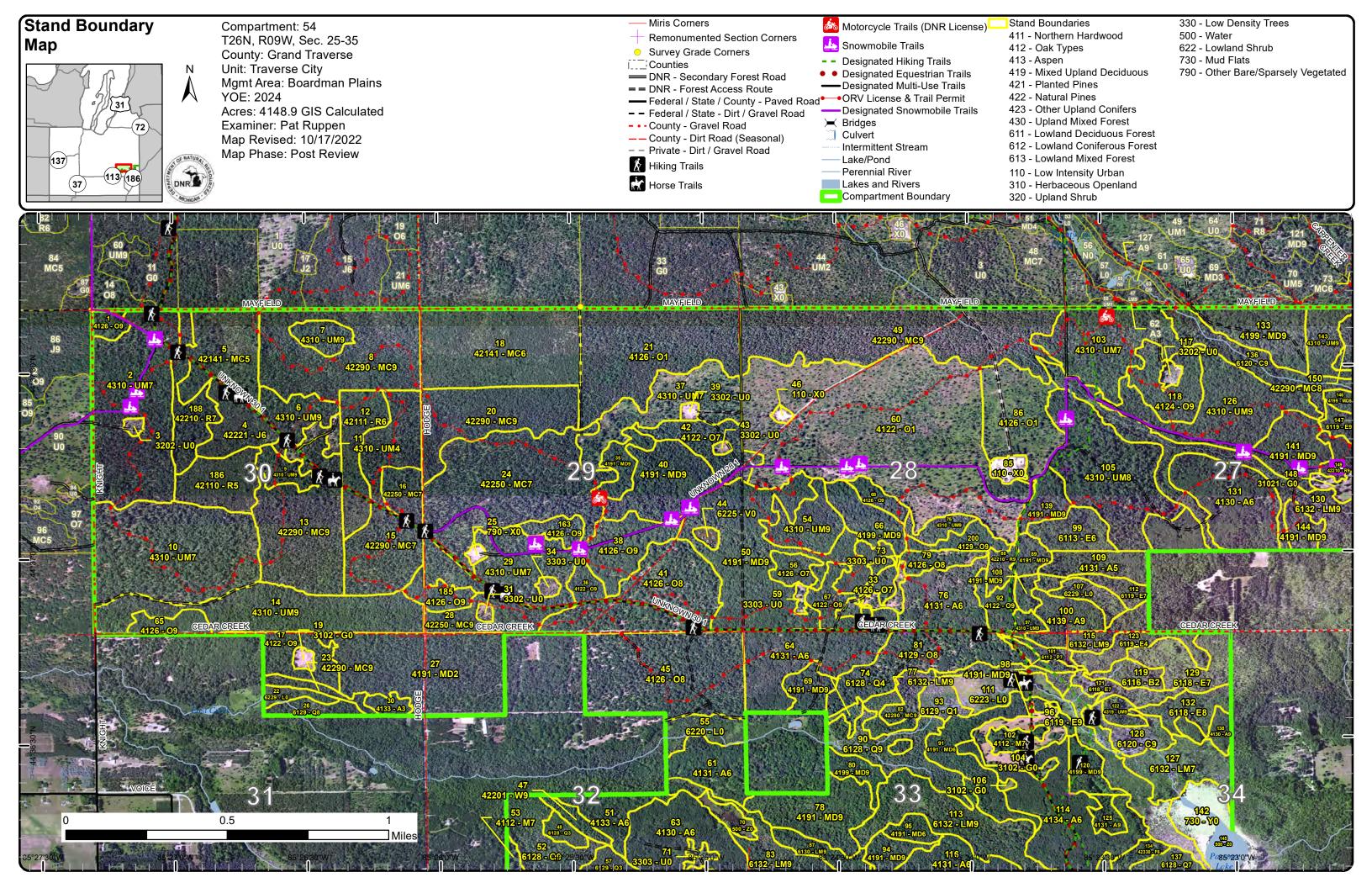
Details on the road access system

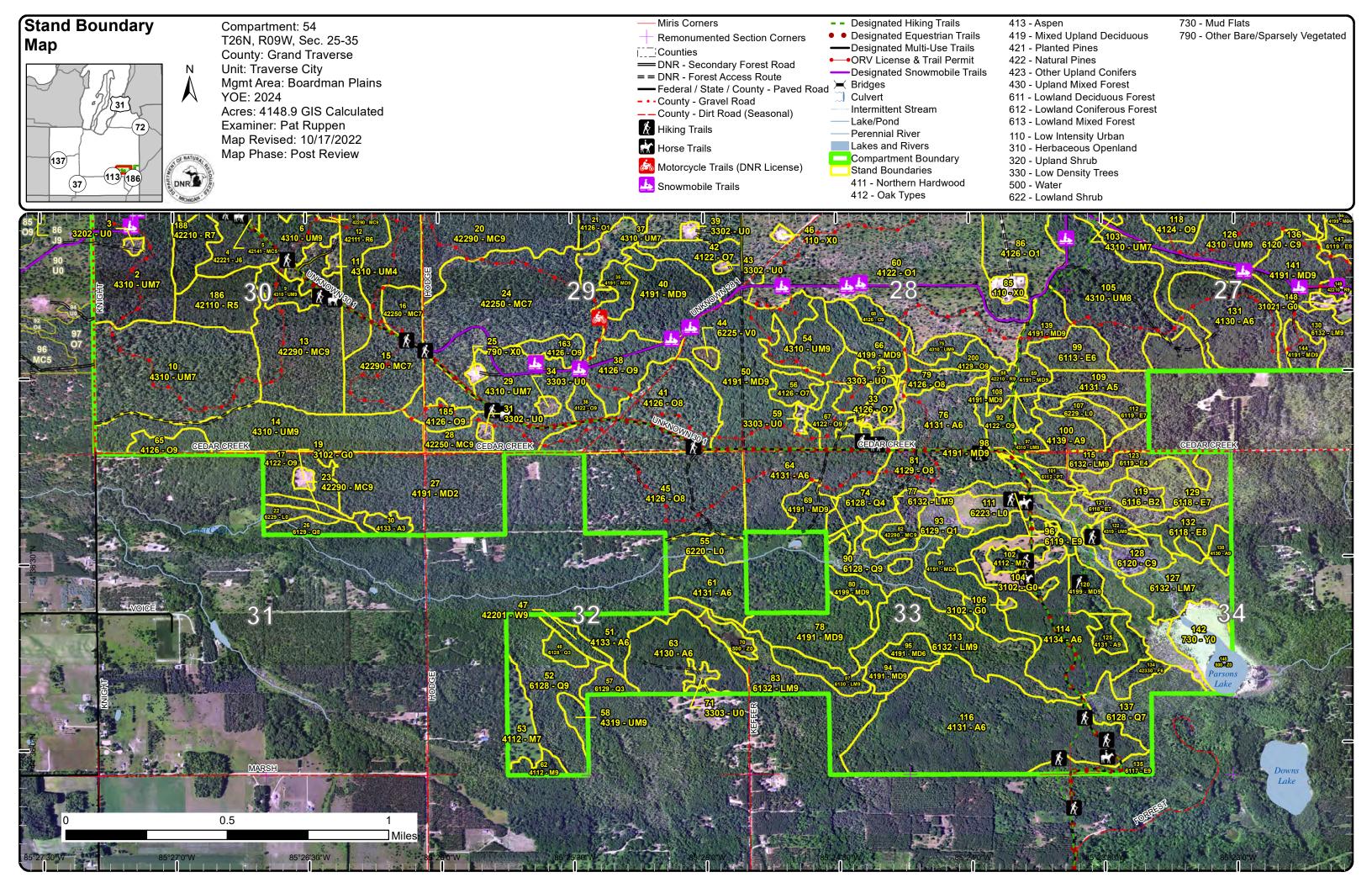


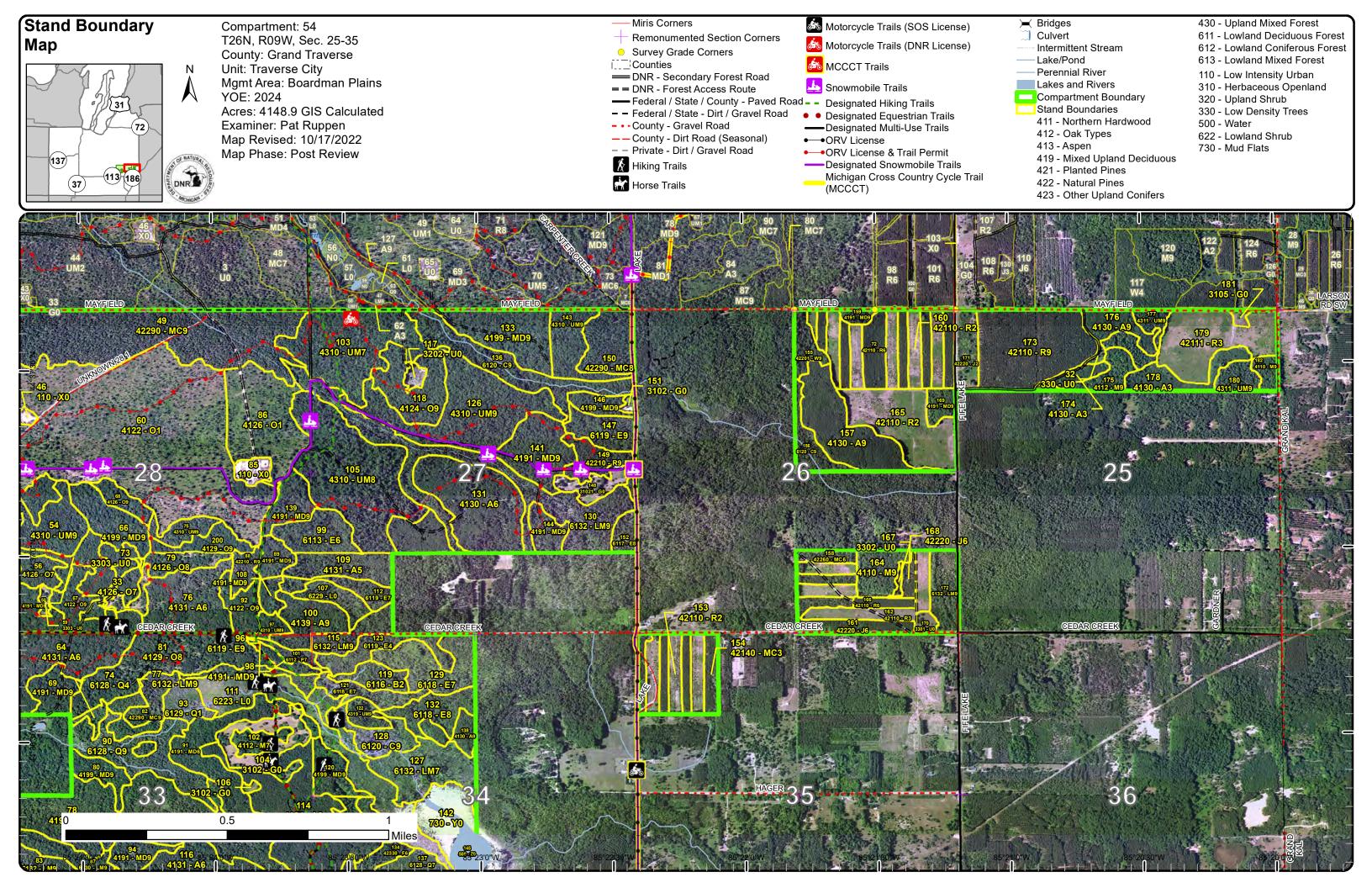


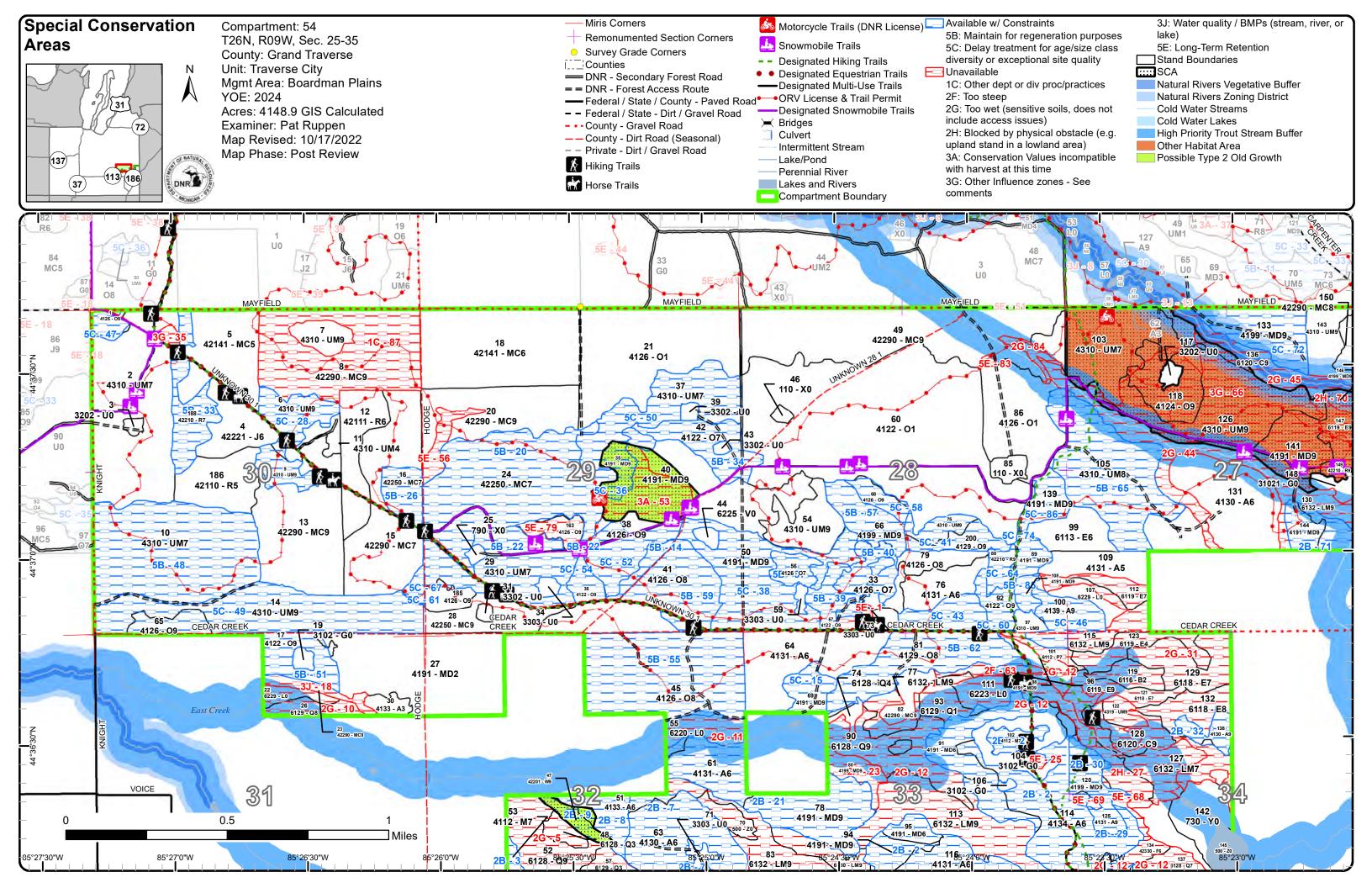


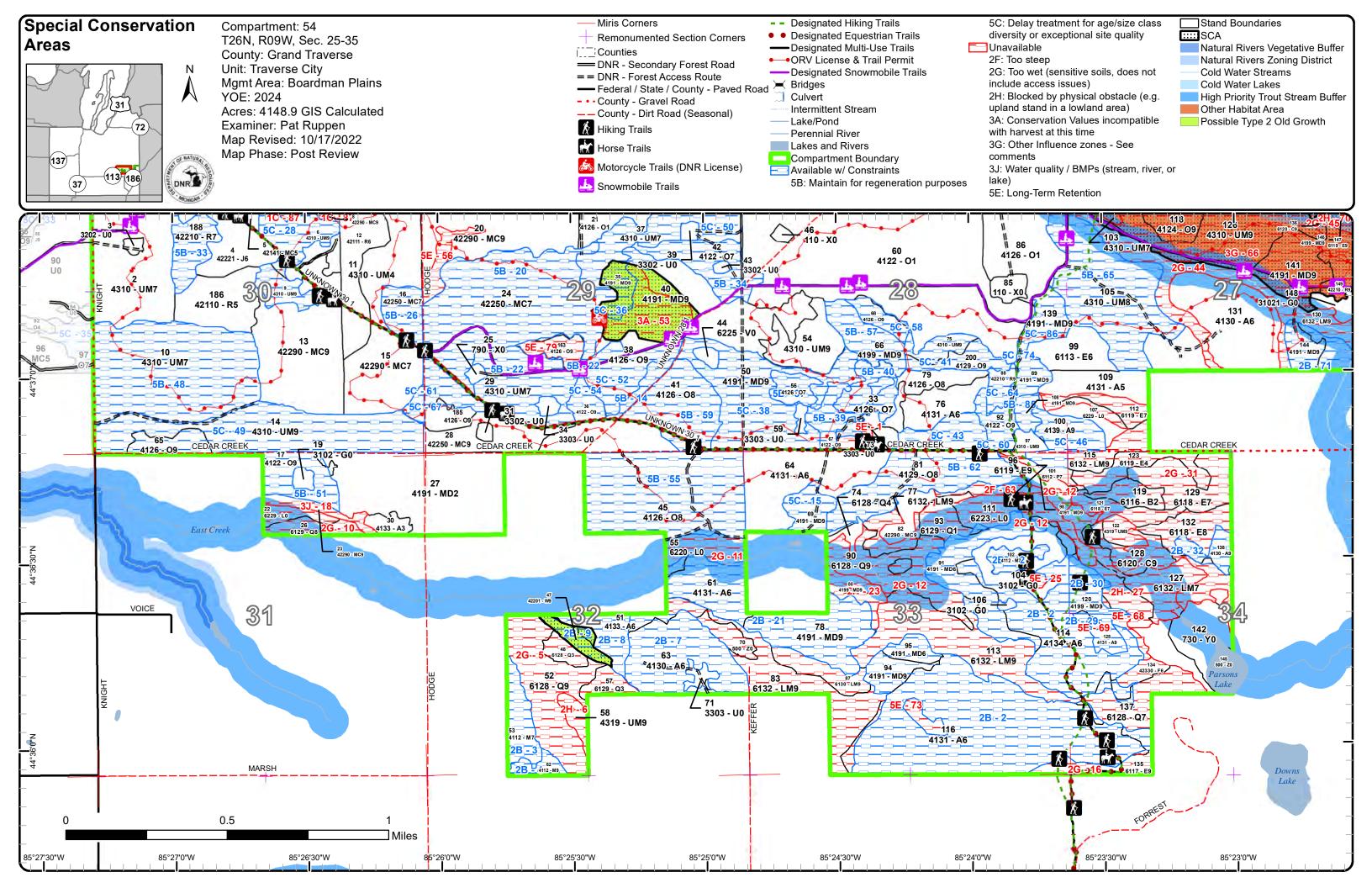


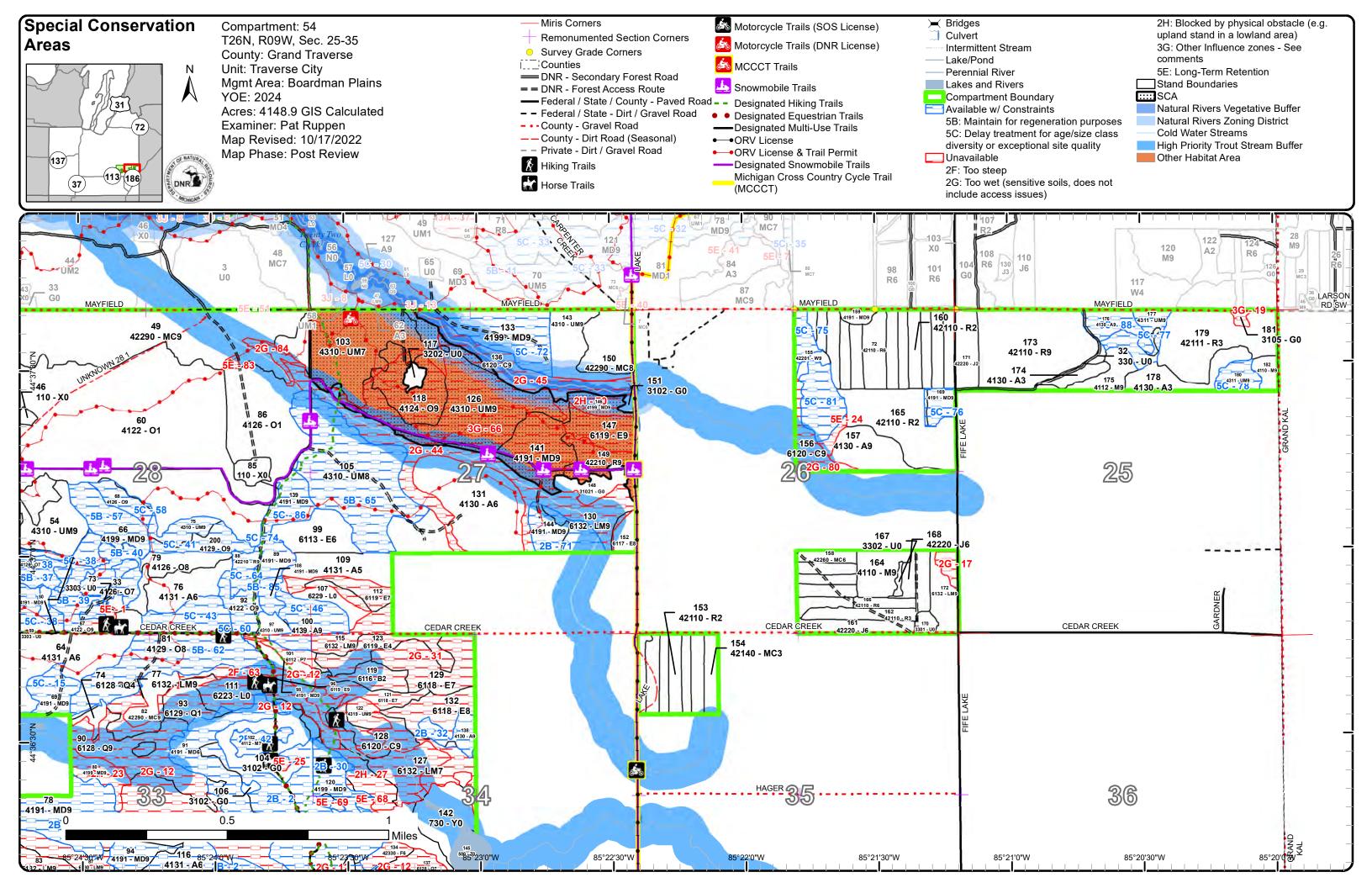












Compartment 54 Year of Entry 2024

Traverse City Mgt. Unit

Pat Ruppen: Examiner



Age Class

Aspen Bare/Sparsely Vegetated Bog	1 0 2	1 0 0		\$ \ \$		3 /			/ a /	/ /	/ /	′ /	/ /	′ /	/ /	/ /	/ /	/ /	/ s /
Bare/Sparsely Vegetated	-	0	(/		/	/ "	/ &					Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z					\$ Jugar	You You
· · · ·	2		19	79	0	298	116	6	0	0	8	0	0	0	0	0	0	0	525
Bog		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	31	23	0	0	0	54
Herbaceous Openland	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Jack Pine	0	0	0	25	21	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	9	3	12	0	0	0	0	0	0	24	0	30	0	8	43	0	128
Lowland Deciduous	0	0	0	0	0	20	0	26	14	23	18	0	0	0	24	0	0	0	125
Lowland Mixed Forest	0	0	0	0	0	0	0	0	9	11	33	59	11	50	0	0	0	51	224
Lowland Shrub	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Mixed Upland Deciduous	0	0	0	78	0	81	0	0	44	47	19	30	33	84	0	0	0	28	444
Natural Mixed Pines	0	0	0	12	0	0	0	0	0	334	167	0	19	0	0	0	0	0	532
Northern Hardwood	0	0	0	0	0	0	7	0	19	10	0	5	12	0	0	0	0	0	52
Oak	0	0	253	79	0	0	0	0	0	22	70	226	19	57	0	0	0	0	726
Paper Birch	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Planted Mixed Pines	0	0	0	21	114	0	0	0	0	0	0	0	0	0	0	0	0	0	134
Red Pine	0	125	20	37	51	0	0	50	0	22	6	0	13	0	0	0	0	0	324
Sand, Soil	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	0	0	0	7	0	0	0	9	128	74	68	10	200	0	7	10	122	635
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	14
Total	172	125	301	343	205	399	129	82	95	597	399	412	117	466	47	15	53	201	4152



Report 2 – Treatment Summary

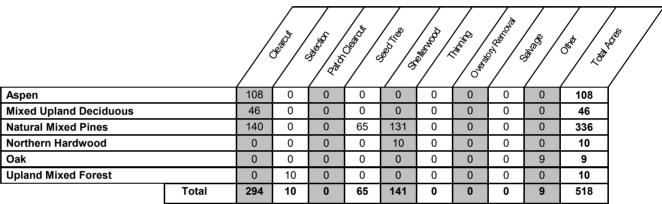
Traverse City Mgt. Unit Year of Entry: 2024

Acres of Harvest

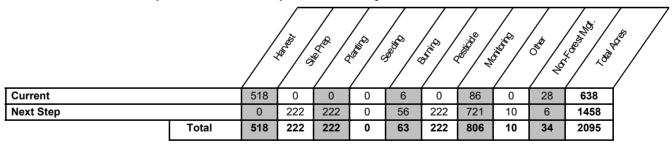
Compartment 54
Total Compartment Acres: 4,149

Commercial Harvest - 369 Harvests with Site Condition - 149 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method





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Treatment Name

Acres

Stand CoverType

Size Density Stand BA Age Range **Treatment** Type

Treatment Method

Cover Type Objective

Compartment: 54

Year of Entry: 2024

Age Structure Habitat Cut

Approved Treatments:

2 61054002-85.7 4310 - Pine, Oak Sawtimber 85 1-50 Monitoring Natural Regen 4122 - Oak, Pine Even-Aged No Monitor Mix Poor (Re-Inventory)

Prescription evaluate regen success at next inventory cycle

Specs:

Next Step Treatments:

Acceptable Expect new stand to form consisting of oak, jack pine, red maple and to a lesser amount white and red pine

Regen:

Percent to Treat = 100% **Other**

Comment:

Site Condition

Proposed Start Date: 10/1 /2031

9.7 4310 - Pine, Oak 61054007-Cut Sawtimber 150 111-Harvest Single Tree 4319 - Mixed Two-Aged No Mix Well 140 Selection **Upland Forest**

Prescription Remove remaining jack pine and mark remaining stems for crop tree release. Maintain stand as pocket of large oak and pine.

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable pine, oak, maple

Regen:

large old oak and pine are found in this stand. Do not disturb. A light thinning may be all that is necessary in this stand to remove poor Other

Comment: quality stems and for crop tree release as needed. Treat with surrounding stands.

Site Condition

Proposed Start Date: 10/1 /2023

42290 - Natural 61054008-5-27 4 Sawtimber 85 81-110 Harvest Shelterwood 4319 - Mixed Two-Aged No Mixed Pine **Upland Forest** New

Specs:

Prescription Remove jack pine and poorly formed oak and red maple. Retain well formed oak, red pine and white pine up to 80 ba. White pine poles are found in western part. Thin as possible for crop tree release. Manage for mixed stand. Treatment is intended to salvage declining jack pine and to maintain oak overstory and promote mast production. Variable basal are after harvest will be expected with gaps that will regenerate to oak, jp and rm.

Consider motorcycle trail through stand. Retain well formed trees along trail bed. Do not leave jack pine but cut high if directly adjacent to

trail bed. Un-authorized trail through stand seems to be flagged in.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable oak, pine, maple

Regen: **Other** Comment:

Site Condition Other Dept./Div. Processes

Traverse	Citv	Mat.	Unit

Report 3 -- Treatments

mpartment: 54	OF NATUR
ear of Entry: 2024	DNR BARTA
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Co s Ye t а **Treatment** Stand BA **Treatment Treatment Cover Type** Acres Stand Size Age Habitat n Method Objective Structure Name CoverType Density Age Range Type Cut d 8 61054008-Cut 46.0 42290 - Natural Sawtimber 81-110 Harvest Clearcut with 42111 - Planted Even-Aged Nο Red Pine, Mixed Pine Well Retention Mixed Deciduous Prescription Harvest to 1" dbh. Chip tops to prepare for planting. Some small drains and steep areas may need to be excluded. Could be small retention pockets Most of the ground lay good enough to manage for red pine plantation. Specs: Next Step SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Treatments: Regen(3yr) <u>Acceptable</u> planted red pine, oak, white pine, jack pine Regen: Manage stand for mixed composition after planting. . Initial herbicide application will be required for initial planting but after red pine is Other 6 1 established allow other species to grow with planted pine. Consider motorcycle trail through stand. Retain long lived trees that are directly Comment: adjacent to trail bed but not jack pine. Cut jack pine that contacts trail bed at least 4' high. Site Condition Other Dept./Div. Processes Proposed Start Date: 10/1 /2023 61054013-Cut 64 6 42290 - Natural Sawtimber 85 111-Harvest Seed Tree with 4122 - Oak, Pine Two-Aged Nο Mixed Pine Well 140 Retention Prescription Stand has old barrens characteristics with large scatted oak and pine and 75 age grown in. Remove jack pine, cherry, aspen, red maple and Specs: poorly formed oak. Retain (some/all) red and white pine and large diameter oak 20+" dbh. Mark some other well formed oak to retain from younger age classes. Stand should fill in with jack pine, white pine, oak and red maple and psosible aspen if found in stand. ORV trail in stand. Consider during sale prep. Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** <u>Acceptable</u> Stand should regenerate to mixed pine, oak, red maple, aspen. Regen: Other 1 4 1 Stand should regenrate to mixed pine, oak, red maple, aspen. Comment: Site Condition Proposed Start Date: 10/1 /2013 41.7 42290 - Natural Sawtimber 93 81-110 Harvest Clearcut 4211 - Planted No 61054020-Cut Even-Aged Mixed Pine Well Red Pine Prescription Cut to 1 " dbh and chip tops to prepare site for planting red pine. It will be a challenge to get this cut and the oak under control. Specs: Next Step SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Treatments: Regen(3yr) Acceptable planted red pine. Regen: Other Consider motorcycle trail through stand. Possibly un authorized trail as well.

Comment:

Site Condition

Traverse	Citv	Mat.	Unit

erse City Mgt. Unit	Report 3 Treatments	Compartment: 54
		Year of Entry: 2024

Treatment

Treatment

Retention

Cover Type

Upland Forest

Habitat

Age

d	Name	CoverType	Density	Age	Range	Type	Method	Objective	Structure	Cut
28	61054028-Cut	47.3 42250 - Pine Oak	Sawtimber	85	81-110	Harvest	Shelterwood with	4319 - Mixed	Two-Aged	Nο

Stand

Well

Prescription Retain some well formed oak and pine (10-40 ba) and harvest remaining stems to regenerate stand. Focus retention on younger oak and pine with some scattered log sized trees. Keep red and white pine 8"dbh or less. There is a good distribution of younger red pine mixed Specs:

through stand. Attempt to protect well formed oak poles as found and scattered oak log trees along with a little well formed log sized white and red pine. There are some nice red oak poles in stand. There are also a few large older red white pine that should be retained.

Next Step Monitoring, Natural Regen (Re-Inventory); Burn, Understory

Stand

Treatments:

Treatment

Acceptable oak, maple, pine, aspen.

Regen:

S t а

Other Goal is to release advanced regen in under story. Treat with stand to east. Consider retention trees along motorcycle trail. Consider Comment:

burning harvest area after harvest to stimulate sprouting. Some areas are pretty open but much of the treatment area has higher basal area

in canopy than desired.

Site Condition

Proposed Start Date: 10/1 /2023

4319 - Mixed 61054049-Cut 20.8 42290 - Natural Sawtimber 85 81-110 Harvest Shelterwood Two-Aged No **Upland Forest** Mixed Pine Well

Prescription remove all jack pine, aspen and most red maple along with larger pine and poor formed oak. Retain 10-40 ba of well formed oak, red pine or white pine and harvest remaining stems. Expect new age to form in understory. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable oak, pine, maple, aspen

Regen:

Consider motorcycle trail in stand. Retain trees adjacent to stand but cut jp adjacent to trail. Cut them 4' high if touching trail bed. New un-Other

Comment: authorized trail also found.

Site Condition

Proposed Start Date: 10/1 /2023

4211 - Planted Even-Aged 42290 - Natural Clearcut with 61054049-52.3 Sawtimber 85 81-110 Harvest 49 Cutx Mixed Pine Well Retention Red Pine

Prescription Harvest to 1' DBH and chip tops to prepare site for planting. Retain oak, maple, white pine along mayfield road-approximately 30 ft wide

Specs:

SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Next Step

Treatments: Regen(3yr)

Acceptable planted red pine

Regen:

Consider motorcycle trail in stand. New un-authorized trail also found. Long term retention area in SE corner of treatment where trail Other

passes through. Comment:

Site Condition

Traverse City Mgt. Uni	Т	rav	erse	Citv	Mat.	Unit
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Report 3 -- Treatments

Compartment: 54

S t									Year of Entry	<i>y</i> : 2024	DNR
a n Tre	atment lame	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
50 6105	54050-Cut	46.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimbe Well	r 120	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
Prescription Specs:		t to 1" dbl torcycle t		repare site	for plan	ting red p	ine after harv	est. Keep long lived	trees as retention	along snowm	obile trail
Next Step Treatment	_ SitePre ts: Regen(ning; Pesticide, Ski	idder - Site	Prep;	Planting,	Initial Plant;	Monitoring, Artificial F	Regen(1yr); Mon	itoring, Artifici	al
Acceptabl Regen:	e planted	red pine.									
Other Comment	<u>:</u>										
Site Cond	<u>ition</u>										
Proposed	Start Date	10/1 /20	023								
59 61	054059- Burn	1.8	3303 - Mixed Low Density Trees	Nonstocke	ed	Unspec ified	Burn	Opening	31022 - Warm Season Grass		No
Prescription Specs:	grassla encroa	nd/barrer chment o	ns ecosystem. The r r promoting grasses	timing and versus forl	frequen os. Re	cy of the move exc	burns will be l otics as neede	If prescribed burning in pased on currents new and by herbiciding or other trubs or trees, burning	eds of restoration her methods. Ma	such as reduc aintain as nee	ded with
Next Step Treatment		restMgt, F	lerbaceous/Crop/Gr	rass Plantin	g						
Acceptabl Regen:	<u>e</u> _										
Other Comment	<u>:</u>										
Site Cond	<u>ition</u>										
Proposed	Start Date	10/1 /20	023								
73 61	054073- Burn	4.5	3303 - Mixed Low Density Trees	Nonstocke	ed	Unspec ified	Burn	Opening	31022 - Warm Season Grass		No
Prescription Specs:	frequer forbs.	ncy of the Remove	burns will be based	l on currents by herbicidir	s needs ng or ot	of restor her metho	ation such as ods. Maintair	maintain a grassland reducing woody encr as needed with mov acroachment.	oachment or pron	noting grasses	versus
Next Step Treatment		restMgt, F	Herbaceous/Crop/Gr	rass Plantin	g						
Acceptabl Regen:	<u>e</u>										
Other Comment	<u>.</u>										

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Site Condition

Report 3 -- Treatments

Compartment: 54

s t		Traverse of	ity mgt. Omi	•	Kepo	11.5	rreatments		Year of Entr		DNR
a n d	Treatme Name	nt Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
76	61054076	-Cut 15.5	4131 - Aspen, Oak	Poletimbe Well	r 57	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
			ell formed oak, pine emnant barrens in s						nave patchy rege	eneration but v	vill fit in
	xt Step Materials	onitoring, Natı	ural Regen (Re-Inve	ntory)							
	<u>ceptable</u> as gen:	pen oak, map	ole, pine.								
Oth Cor	<u>ner</u> C mment:	onsider motor	cycle trail through st	and.							
Site	e Condition										
Pro	posed Start	Date: 10/1 /2	2023								
79	61054079	-Cut 9.1	4126 - White, Black, N. Pin Oak	Sawtimber Medium	r 102	51-80	Harvest	Other - Specify	414 - Other Upland Deciduous	Uneven- Aged	No
			or barrens type by re 40. Treat with part o			ormed oa	k and pine and s	some well formed yo	ounger stems. F	Reduce basal	are
	xt Step B atments:	ırn, Opening									
	<u>ceptable</u> or gen:	ık, maple, pine	e, forbs, grasses, s	hrubs,							
Oth Cor	<u>ner</u> T mment:	nis stand has a	appearance of an ol	d barrens op	ening	with youn	ger age classes	growing in.			
Site	e Condition										
Pro	posed Start	<u>Date:</u> 10/1 /2	2023								
104	61054104	- NF 18.2	3102 - Grass	Nonstocke	d	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	31021 - Cool Season Grass		No
Pre			a traditional wildlife								

forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or Specs:

removal of woody encroachment.

Next Step Treatments:

Acceptable Regen:

<u>Other</u> Fruiting shrubs were planted in this stand via a Wildlife Habitat Grant that was awarded to the Conservation Resource Alliance.

Comment:

Site Condition

Report 3 -- Treatments

Compartment: 54

s Year of Entry: 2024 t а **Treatment** Stand BA **Treatment Treatment Cover Type** Acres Stand Size Age Habitat n Objective Method Name CoverType Density Age Range Type Structure Cut d 3105 - Mixed 106 61054106-NF 1 0 3102 - Grass Nonstocked Unspec NonForestMqt Herbaceous/Crop Nο ified /Grass Planting Upland Herbaceous Prescription This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment. Specs: Next Step Treatments: Acceptable Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2023 114 61054114-Cut Poletimber Clearcut with 26.6 4134 - Aspen, 42 81-110 Harvest 413 - Aspen Even-Aged No Spruce/Fir Well Retention Prescription Harvest to 2" to regenerate stand. Retain a few well formed oak and pine if found. Create drumming logs @ 1/acre. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable aspen, maple, oak, pine, birch, balsam. Regen: access may not be possible. Consider North Country Trail. May not be located as mapped. May run along same path as Horse trail Other Comment: adjacent to treatment area. Retain long live trees along trail if it is within sale area. Site Condition Unknown Access Proposed Start Date: 10/1 /2023 116 61054116-Cut 48.9 4131 - Aspen, Oak Poletimber 81-110 Harvest Clearcut with 413 - Aspen Even-Aged No Retention

Prescription Harvest to 2" dbh to regenerate stand. Retain widely scattered well formed oak and pine if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, pine fir, birch, oak.

Regen:

Other 1 4 1 Access unknown. Avoid wet areas

Comment:

Site Condition Unknown Access Proposed Start Date: 10/1 /2023

148 61054148-NF 31021 - Cool Nonstocked Unspec NonForestMgt Herbaceous/Crop 31021 - Cool No 8.7 /Grass Planting Season Grass ified Season Grass

Prescription This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil Specs: will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Next Step Treatments:

<u>Acceptable</u> Regen:

Other Fruiting shrubs were planted in this stand via a Wildlife Habitat Grant that was awarded to the Conservation Resource Alliance.

Comment:

Site Condition

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a n Treat d Nai		Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
150 61054	150-Cut	35.6	42290 - Natural Mixed Pine	Sawtimber Medium	116	111- 140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
Prescription Specs:			ger oak and pine. I est with no feller bur			to 10-40	of trees larger	than pole class. T	ry to protect adva	nced regenera	ation.
Next Step Treatments:			ng; Pesticide, Ski	dder - Site F	Prep; F	Planting, I	nitial Plant; M	onitoring, Artificial F	Regen(1yr); Mon	itoring, Artifici	al
Acceptable Regen:	pine, oa	ak, aspen,	maple								
Other Comment:											
Site Condition	<u>on</u>										
Proposed S	tart Date:	10/1 /20	23								
157 61054	157-Cut	16.6	4130 - Aspen	Sawtimber Well	- 56	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
Prescription Specs:			formed pine and delines of slash may be					est remaining stem	s to regenerate s	tand. Create s	some
Next Step Treatments:		ing, Natur	al Regen (Re-Inver	ntory)							
Acceptable Regen:	aspen,	oak, mapl	e, pine, fir, spruce.	hemlock.							
Other Comment:	connec	tivity. May	/ need to build acce	ess in to cer	nter alo	ng plantat	ion edge. Roa	etention patch in midd on south edge ac get permission for a	cesses area but h		
Site Condition	<u>on</u>										
Proposed S	tart Date:	10/1 /20	23								
164 61054	164-Cut	9.5 4	110 - Sugar Maple Association	Sawtimber Well	· 115	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Uneven- Aged	No
Prescription Specs:	Reduce remova		ea to ~ 40 sf/ac. Cr	eate canopy	y gaps t	to promot	e understory fo	rmation. Target lar	ger diameter map	le and cherry	for
Next Step Treatments:	Other,	Other									
Acceptable Regen:	Norther	n hardwoo	od mix								
Other Comment:	Approv	ed by Cha	pter 7 variance 6/1	1/21							
Site Condition	<u>on</u>										

Total Treatment Acreage Proposed: 637.5

Proposed Start Date: 5 /27/2021

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Availa	ability for	Managemer	nt													
Total	Acres	Acres Avail	Acres	De	omina	nt Site	Cond	ditions	S							
Acres	Available	With Condition	Not Available		2B	5B	5C	1C	2F	2G	2H	ЗА	3G	3J	5E	ed
524	175	336	14	Aspen	278	0	58			3					11	0
2	2	0	0	Bare/Sparsely Vegetated												
2	2	0	0	Bog												
54	4	0	50	Cedar			0			42	5		3			
25	23	0	2	Herbaceous Openland	0					0	0		2			
46	46	0	0	Jack Pine												
22	22	0	0	Low-Density Trees	0	0	0									
4	0	0	4	Lowland Aspen/Balsam Poplar						4						
128	3	5	120	Lowland Conifers	5				0	120	0					
125	22	0	103	Lowland Deciduous		0			8	95	0					
224	12	9	202	Lowland Mixed Forest	9	0			0	181	22		0			
70	16	2	52	Lowland Shrub	2	0			1	41	10				0	
442	128	252	62	Mixed Upland Deciduous	98	22	132		0	1	16	22	24			
531	325	112	95	Natural Mixed Pines		112	0	74		5				6	9	
53	27	26	0	Northern Hardwood	26		0			0						
717	383	304	30	Oak		240	64		0	0			20		11	
9	0	0	9	Paper Birch						9						
135	135	0	0	Planted Mixed Pines												
322	281	29	13	Red Pine		22	7			0			13			
20	20	0	0	Sand, Soil						0	0					
566	195	301	71	Upland Mixed Forest		207	93			0	12		59		0	
4	4	0	0	Upland Shrub									0			
6	0	2	5	Upland Spruce/Fir	2					5						
7	7	0	0	Urban												
11	5	0	7	Water	0					7						
14	2	12	0	White Pine	6		6			0						
4,064	1,837	1,389	838	Total Forested Acres	426	603	360	74	10	511	65	22	119	6	31	0
-	45%	34%	21%	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 Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified

Pat Ruppen : Examiner

	Comments:									
2	Available	2B: Unknown if access through adjacent landowner(s) is possible	234	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Access seems to h	ave been granted in past from a	adjacen	nt landowners to treat parts	of this area.					
3	Available	2B: Unknown if access through adjacent landowner(s) is possible	14	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Stand was accessed	ed in past but current access no	t knowr	า						
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments:									
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified			
	Comments: Rich lowland conife	er swamp								
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified			
	Comments: Upland ridge extending into lowland complex from private lands.									

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7	Available	2B: Unknown if access through adjacent landowner(s) is possible	45	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Best way in would b	oe through private lands to sout	h. May be	e possible to get back in	from the north with portab	le bridging but not know for	certain.
8	Available	2B: Unknown if access through adjacent landowner(s) is possible	13	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
9	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Access blocked by	wet areas and					
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

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12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	198	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
14	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Shelterwood harve	st in last entry period. Stand ne	eds mo	ore time for understory to deve	lope.		
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 2022: Allow aspen	and other younger age class to	put or	n volume. Consider harvest ne	xt entry.		
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
C	Comments:						
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2F: Too steep	Unspecified	Unspecified	Unspecified
	Comments: Slope leading dowr	n tp parker creek drainage.					

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19	Unavailable	3G: Other Influence zones - See comments	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Old farm foundations	3.					
20	Available	5B: Maintain for regeneration purposes	99	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 2020: recent harvest	. Seed tree/shelter wood					
21	Available	2B: Unknown if access through adjacent landowner(s) is possible	59	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
	Comments: Access may be block	red by creek drainage to north	and lo	owland types/private lands to	o south. Access needs to l	pe determined.	
22	Available	5B: Maintain for regeneration purposes	48	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 2020: recent harvest	Shelter wood/ seed tree.					
23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
	Comments: Access may be block	ked by creek to north and lowle	and/pri	vate lands to south. Access	s must be determined		
24	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Long term retention	strip for Harvest of stand 157 v	which \	will be done over two entry p	periods.		

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25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Access seems to h	nave been granted in past from a	adjacer	nt landowners to treat parts of	this area.		
26	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 2020: Older canop	by with under planted red pine.	Excess	sive damage to planted pine w	ould be expected if can	opy removed.	
27	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	44	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
	Comments: Creek on north (wit	th horse trail bridge) Lowland a	nd priv	ate grounds on south and eas	t		
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 2020: Planned har	rvest to north and south. Keep t	this are	a for diversity at this time.			
29	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments: Creek and horse tr	ail bridge to norht and private la	ınds/lov	vlands to south.			
30	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments: Access blocked fro	om north by creek /lowland and l	horse t	rail bridge. Access was denied	d by adjacent landowne	r in last entry period.	

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31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	115	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
	Comments:						
32	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Would be desirable	e if access could be attained.					
33	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Low density canop	y with developing understory.					
34	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 2020: Low density	voverstory with developing seco	nd age.	. Excessive damage would l	pe expected to younger ago	e if canopy removed at thi	s time.
35	Unavailable	3G: Other Influence zones - See comments	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 2020: stand is sur	rounded by recent harvests or p	anned	harvest. Keep for age dive	rsity at this time.		

Traverse City Mgt. Unit

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37	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
	comments: 020: stand was	narvested 2016 -seed tree/ shelte	er wood.	Let understory grow throug	h		
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	57	Unspecified	Unspecified	Unspecified	Unspecified
	omments: 022: Nearby rece	ent harvests					
39	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
_	comments: 022: stand harve	ested 2016. let understory develo	pp				
40	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
_	omments: 020: Stand harve	ested 2016 with aspen regenerati	ng unde	r residual canopy. No harve	st intended at this time,		
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
	omments: 020: large area	to north recently harvest and inte	ntion to	harvest to south this entry.	Keep this area for age o	liversity at this time.	
42	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	comments:	drainage to north with Horse-trail	Bridge	and private land access to th	e south which is undete	rmined.	

Traverse City Mgt. Unit

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	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 2020: Harvesting N	North half of stand this entry. Th	nis part r	retained for age diversity			
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 2022: Red maple i	s a major component of stand a	and need	ls more time to grow in vo	lume and merchantability.		
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
		his smal	Loak stand for diversity			
Comments: Surrounding stand	will be final harvested. Retain t		Tour orang for diversity			
	will be final harvested. Retain t		round for divorsity			
		his smal	Loak stand for diversity			

Traverse City Mgt. Unit
Pat Ruppen: Examiner

48	Available	5B: Maintain for regeneration purposes	93	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Excessive damage	e to advanced regeneration wou	d occu	r. Stand was partially harve	ested in 1996 and understo	ry has developed.	
49	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	77	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Adjacent stands or	n two sited proposed for treatme	nt this	entry. Area to south harves	ted last entry.		
50	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
	Comments: Retain remaining of	anopy as new stand develops fo	or age o	diversity and stand structure	e. Not enough canopy left	to be merchantable or to h	inder regeneration.
51	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 2022: allow under	story to grow through in gaps fro	om last	harvest. Excessive damag	e would occur if harvested	d at this time.	
52	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Adjacent stands ha	ave recently been harvest and a	re not v	vell developed yet in regene	eration.		
53	Unavailable	3A: Conservation Values incompatible with harvest at this time	22	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Area with large old	er pine and oak.					

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54	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Large adjacent are	ea to have fional harvest-remova	l of mo	st shelterwood retention, Kee	p this stand for diversit	y at this time.	
55	Available	5B: Maintain for regeneration purposes	82	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
		os from last harvest are still filling ′. Understory needs to develop f					ent from last entry was
56	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
57	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Younger age class	s of underlplanted red pine would	be he	avily damaged by treatment a	t this time. Look at nex	t entry.	
58	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Large adjacent are	ea to be treated this entry					
59	Available	5B: Maintain for regeneration purposes	34	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Heavy advanced r	egeneration under low stocked s	cattere	ed overstory. Harvest would d	amage understory exce	essively.	

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60	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
61	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 2020: small oak st	and with nearby recent harvests.	. Main	tain for diversity and older a	ge structure at this time.		
62	Available	5B: Maintain for regeneration purposes	43	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand was cut with	a shelterwood harvest in 2007.	Unde	rstory has not developed full	y at this time. Retain over	story until next entry.	
63	Unavailable	2F: Too steep	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Riparian slope alo	ng parker creek					
64	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Large area nearby	to the north to be final harvested	d. Ret	ain thiws stand until next en	try		
65	Available	5B: Maintain for regeneration purposes	68	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Robust regeneration	on in canopy gaps. Half of the ca	anopy	was removed. Removal or a	ndditional canopy would res	sult in excessive damage t	o new stand

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66	Unavailable	3G: Other Influence zones - See comments	115	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Recommend this st	tand be grown to old aged oak a	ınd pin	e. Let this stand develope nat	urally.					
67	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	0	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: 2020: small oak stand with nearby recent harvests. Maintain for diversity and older age structure at this time.									
68	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Access seems to have been granted in past from adjacent landowners to treat parts of this area.									
69	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Creek and horse trail bridge to norht and private lands/lowlands to south.									
70	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Acees to asnd is blocked by two creeks. Volun is not sufficient to promote bridge improvements									
71	Available	2B: Unknown if access through adjacent landowner(s) is possible	16	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified			
	Comments: This stand should b	oe regenerated if access can be	obtair	ed but not this entry. Large ar	ea of early succession	to the west. Retain this sta	and until next entry.			

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72	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Other side of coun	ity road was recently harvested.	Let that	stand develope before						
73	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Access seems to have been granted in past from adjacent landowners to treat parts of this area.									
74	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified			
75	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Small stand between	en private land and large new pl	antation.	Retain for diversity						
76	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: New plantation on	3 sides of this small stand. Kee	p for age	e diversity.						
77	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: This stand has a u	ınique -older white pine canopy v	vith youg	er stand developing in ga	aps. Keep for diversity.					

Report 4 – Site Conditions

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78	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
79	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
80	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
	omments: arvesting part of	stand to south this entry. Save t	his area t	for age class diversificati	on.		
82	Unspecified	Unspecified	0				
C	omments:						
83	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

Report 4 – Site Conditions

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84 Unavailable 2G: Too wet (sensitive 4 soils, does not include

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84	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
85	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Allow understory to	o develop					
86	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
87	Unavailable	1C: Other dept or div proc/practices	74	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: See locked comme	ents					
88	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Recent harvest in a	adjacent stand to north. Hold ur	itil next er	ntry.			

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Proposa	34
61054047 Comments	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA	7
61054126 Comments	Habitat Area	Other Habitat Area	SCA	187

Traverse City Mgt. Unit





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.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish speci conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable by are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virg forest, or primeval forest) is an area of forest that has few or no sexhibits unique ecological features related to age, composition a are of natural origin. They may be dominated by late successions American beech), or may be a very old example of a stand domin species (i.e. oak, or red pine).	signs of human disturbance and that nd associated structure. Old growth forests al forest species (i.e. sugar maple and
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effects as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10	Zoning District is a 400 foot buffer for



Stand	d Level 4 C	over Type	\$	Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments		
1	4126 - White,	Black, N. P	in Oak S	awtimb	er Well	5.8	122	51-80	N/A		2022: Small mixed stand adjacent to large recent harvest. Keep for diversity. 2011FMD; Oak log/poles with a little pine and red maple. Most		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	is white oak. Basal area is not too high.		
	Jack Pine	5	Log/Pole	10	85	Wh	ite Pine	Low	5 - 10 feet	Sapling			
	White Pine	2	Pole	8		Re	ed Oak	Low	5 - 10 feet	Sapling			
	Red Maple	5	Pole/Sapling	8		Wh	ite Oak	Medium	5 - 10 feet	Sapling			
	White Oak	73	Log	16	122								
	Red Oak	10	XLog/Log	18	122								
	Red Pine	5	Log	11	85								
2	4310 - Pi	ine, Oak Mi	x S	awtimb	er Poor	90.1	85	1-50	N/A		2022: TS# 61-011-18. Harvested 2021. Cut all merchantable but not		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	green marked retention of oak and pine and oak and white pine 6"dbh or less. Stand had substantial oak saplings in understory. Cut only jp in		
	White Oak	40	Log	14	125	Wh	nite Oak	Medium	5 - 10 feet	Sapling	strip along west side due to green up concerns with adjacent stand.		
	Red Oak	5	Log	16	125	Wh	ite Pine	Low	5 - 10 feet	Sapling	Expect new group of oak and maple sprouts to form from this harvest		
	Red Pine	50	Log	13	85	Re	ed Oak	Low	5 - 10 feet	Sapling	and some jp to re-start. 2011FMD; Mixed oak.rp/jp. Most oak is age 75 - small logs-poles. Red pine in stand is much better than jack pine in growth and form. This stand has a good bit of oak understory in places		
	Red Maple	5	Pole/Sapling										
				·							so it may be hard to re-plant red pine. May be able to weave some red pine in where advanced regeneration is not too much.		
3	3202 - Autumn	- Autumn Olive/Honeysuckl		202 - Autumn Olive/Honeysuckle N			ocked	1.7	U	nspecified	No		Old well pad planted to autumn olive-filling in with jack pine. Last well drilled from this pad was plugged in 1989. Used for landing 2021
4	42221 - Natural Dec	I Jack Pine, ciduous	Mixed P	oletimb	er Well	20.5	30	1-50	N/A		2022:. Residual pine and oak with natural jp and white oak saplings/poles. TS# 024-87. Cut all merchantable but do not cut trees		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	marked with green or blue and do not cut any red or white pine. TCR 1/91 PI Stands 4 and 5 were both in this sale. 2011FMD; Scattered oak		
	Jack Pine	62	Pole	5	30	Wh	nite Oak	Low	< 5 feet	Seeding	and pine overstory with moderate-thick oak and jack pine regen with a		
	Red Maple	5	Sapling	3		Wh	ite Pine	Low	5 - 10 feet	Sapling	little planted red pine age 20. Younger age is too advance to remove		
	Red Pine	3	Sapling/Pole	4	30	Ja	ck Pine	Low	< 5 feet	Seeding	overstory. Let this age grow through.		
	White Oak	20	Sapling/Pole	4	30	Blac	k Cherry	Low	< 5 feet	Seeding			
	Black Cherry	5	Sapling/Pole	4	30	Re	d Maple	Low	< 5 feet	Seeding			
5	42141 - Planted Dec	Mixed Pine	e, Mixed Pol	etimbe	Mediur	m 37.1	30	51-80	N/A		2022: Planted red pine with natural jack pine and white oak growing through oak and pine scattered residual. Red pine stocking is variable		
	Canopy Species	% Cover	Size Class		l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	with some areas not planted. Open area in east that was trenched but had little survival. Cherry and ip in low density. Good height growth on		
	White Oak	20	Sapling	2	30	Blac	k Cherry	Low	< 5 feet	Sapling	red pine in last 15 years after slow start. Areas that were not planted		
	Jack Pine	25	Pole	6	30	Wh	ite Pine	Low	< 5 feet	Sapling	Sapling stocked with jp. 2002: TS# 024-87. Cut all merchantable but do no		
	White Pine	5	Sapling/Pole	4		Wh	ite Oak	Low	< 5 feet	Seeding	trees marked with green or blue and do not cut any red or white pine. TCR 1/91PI Stands 4 and 5 were both in this sale. Planted 1992 3/0 red		
	Quaking Aspen	2	Sapling	4	30						pine. 2011FMD: Scattered older Red pine age 73 and oak age 112 with		
	Red Maple	2	Sapling/Pole	4							planted red pine age 20. Some of the younger red pine is starting to		
	Black Cherry	5	Sapling	2	30						grow but some is not. There were a lot of problems with the planting is this year. Need to let this stand develop and second age grow through.		
	Red Oak	3	Sapling	2	30								
					-								



											Year of Entry: 2024
Stand	l Level 4 C	over Type	S	ize De	ensity	Acres	Stand Age B	BA Range	Managed S	Site	General Comments
6	4310 - Pi	ne, Oak Mi	x Sa	wtimb	er Well	17.5	122	81-110	N/A		2022: Mix of white oak and patchy jp. Jp could go but may hold till next
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	entry. Some patchy oak regeneration. Could mark some retention of better formed oak and pine and cut to regenerate. Oak is lower quality.
	Bigtooth Aspen	2	Pole	7		Wh	nite Oak	Medium	5 - 10 feet	Sapling	2012: older oak with jack pine aged 55-60. This stand will likely fill in
	Red Pine	5	Log/Pole	12	85	Re	ed Oak	Low	5 - 10 feet	Sapling	with oak when the jack pine is removed. Could hold for now an let jack
	Jack Pine	30	Pole	8	67	Wh	ite Pine	Low	10 - 20 feet	Sapling	pine grow in and oak understory develop.
	White Pine	10	Pole	8				'	1		
	Red Oak	5	Log/Pole/XLog	14	125						
	White Oak	45	Log/XLog	14	122						
	Red Maple	3	Pole/Log	9							
7	4310 - Pi	ne, Oak Mi			er Well	9.7	150	111-140	N/A		2022: Large old scattered oak and pine with nice red pine mixed with wp
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	as a pocket of large older trees. 2011FMD; Large old WO WP RP with
	White Oak	40	XLog/Log	22	150	Wh	nite Oak	Medium	5 - 10 feet	Sapling	planted rp 75 and jp rm oak/wp/ poles and logs grown in gaps. Looks like
	White Pine	25	Log/Pole	14	85	Wh	ite Pine	Low	>20 feet	Sapling	red pine was planted through old oak/pine grove. Neat stand with old
	Red Pine	25	Log/Pole	14	85	Re	ed Oak	Low	5 - 10 feet	Sapling	growth look. Could try to grow big pine with the oak. Not much jack pine to loose in this stand. Just let stand develop.
	Jack Pine	5	Log/Pole	10	85	Blac	k Cherry	Low	5 - 10 feet	Sapling	to loose in this stainer stainer as solep.
	Red Maple	5	Pole/Log	9		Re	ed Pine	Low	10 - 20 feet	Sapling	
8	42290 - Natı				er Well	73.8	85	81-110	N/A		2022: Mix of jack pine and red pine with mixed white oak sizes Jack pine is declining and red pine is getting large. Red pine had good
	Canopy Species		Size Class		l Age		nopy Species	Density	Avg. Height	Size	diameter growth but has open grown look. Would probable do well here
	Black Cherry	2	Pole	8			nite Oak	Low	5 - 10 feet	Sapling	if properly stocked. Some patches of white oak saplings but generally
	Jack Pine	45	Log/Pole	10	85		ite Pine	Low	Variable	Sapling	light regen in stand. Could be some frost influence in the long lower area but the red pine is present there. More oak sapling on flats. Oak may
	White Pine	8	Pole	8			ed Oak	Low	5 - 10 feet	Sapling	not fill in in the lower areas. Consider harvesting this and planting red
	Red Pine	25	Log	14	85	Blac	k Cherry	Low	5 - 10 feet	Sapling	pine. May be a good place to managed for a mixed stand with a red pine
	White Oak	20	Log	12	85						component. Could retain some well formed oak and pine and weave red pine through stand. May need to spray to control oak sprouting initially. Don't know if this will regenerate well naturally. Stand across Mayfield
											road to the north is going to be harvested. May need retention along Mayfield Road. Don't think this jack pine could hold. 2012:stands 12,8,7 were all one J6 stand in o/i. 2011FMD: Some big older pine and oak

scattered around. Most oak is likely in the 75 age small logs/poles. Ground is gently rolling. Not a lot of advanced regeneration but stocking is not too high in a lot of it. When this site is harvested it probably should be planted because it doesn't seem to be regenerating naturally. Could harvest this entry or wait until next entry. Not the best looking site. Most

trees are a bit stunted looking. Old burnt pine stumps.



Stanc	I Level 4 C	over Type	s	ize Density	Acres	Stand Age B	BA Range	Managed S	ite	General Comments
9	4310 - Pi	ine, Oak M	ix Sa	wtimber We	II 9.3	85	81-110	N/A		2022: Old barrens look with older oak and pine scattered in stand with rm
	Canopy Species	% Cove	r Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	aspen, jp growing in second age. Generally low quality. Could cut back to barrens look with big oak and pine retained. 2011FMD: big old red and
	Red Oak	10	Log/Pole/XLog	14 122	WI	hite Pine	Low	5 - 10 feet	Sapling	white oak with oak poles/red maple pole from stump sprouts/aspen logs
	White Oak	20	Log	14 122	Bla	ck Cherry	Low	5 - 10 feet	Sapling	rp/wp/jp.
	Bigtooth Aspen	10	Log	15 85	W	hite Oak	Medium	5 - 10 feet	Sapling	
	White Pine	25	Log/Pole	10 85	R	ed Oak	Low	5 - 10 feet	Sapling	
	Red Pine	10	Log/Pole	14 85	Re	ed Maple	Low	5 - 10 feet	Sapling	
	Jack Pine	10	Log	12 85			<u> </u>	1	1	
	Red Maple	15	Log/Pole	10						
10	4310 - Pi	ine, Oak M	ix Sa	wtimber Poo	r 92.8	125	1-50	N/A		2022: Variable stocking. Mix of oak, rp,wp. Looks like the white pine
	Canopy Species	% Cove	r Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	poles were left at last harvest along with the oak and red pine. A general second age has formed in the 24 years since harvest. Some pockets of
	Red Maple	5	Pole	8		ed Maple	Low	5 - 10 feet	Sapling	oak regen 5-19' but a lot is still seedling status. Pockets of white and
	Red Oak	10	XLog/Log	18 125	WI	hite Pine	Medium	5 - 10 feet	Sapling	jack pine regen. Heavier on the east side of stand. Complicated stand
	White Oak	40	Log/Pole/XLog	14 125	R	ed Pine	Low	5 - 10 feet	Pole	with the varied residual stocking and regen. Could possible reduce the canopy density of could just let this stand grow in. 2002FMD:
	White Pine	15	Pole	8	R	ed Oak	Low	< 5 feet	Sapling	O7W4O2M1 Jack pine has been removed from stand TS# 029-95 Cut
	Red Pine	30	Log/Pole	12 85	W	hite Oak	Medium	5 - 10 feet	Sapling	all jp wp mix hwd. Do not cut rp or oak. Most cut jp some wp and mix
					Ja	ack Pine	Medium	5 - 10 feet	Sapling	hwd. TCR 4/96 2011FMD; Consider removing more of the overstory to bring along new stand before it would cause excessive damage. Areas
	4310 - Pi	ine, Oak M	ix Po	letimber Poc	or 6.6	30	1-50	N/A		pine/white pine -but a lot of this is stand does not have good regen at this time -there are oak seedlings throughout. Could remove most red pine and oak and let this stand fill in or trench and plant red pine. 2022: Low stocked old open area.
11	Canopy Species		r Size Class	DBH Age		nopy Species		Avg. Height	Size	2022. Low stocked old open area.
	White Oak	10	Log/Pole	12		hite Oak	Low	< 5 feet	Sapling	
	Jack Pine	50	Pole	6 30		ck Cherry	Low	5 - 10 feet	Sapling	
	Black Cherry	10	Log/Pole	10		ack Pine	Low	5 - 10 feet	Sapling	
	White Pine	5	Pole	5 30		ed Maple	Low	5 - 10 feet	Log	
	Red Oak	10	Log/Pole	12 93	110	ra mapio	2011	0 101001	209	
	Red Maple	15	Log	12						
12	42111 - Planted	d Red Pine		oletimber We	II 26.2	30	51-80	N/A		2022: Decent height growth of planted red pine the last 12 years but still a lot of issues with this. Areas of suppressed and defective trees. Mixed
	Canopy Species	% Cove	r Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	density. Some small area of aspen clones and cherry brush. Some white oak saplings working through. Stand needs time to grow in.
	Black Cherry	10	Sapling	3	Bla	ck Cherry	Low	< 5 feet	Sapling	2002FMD: R3 TS # 025-87. TCR 8/91 PI stands 11,13,14 all in sale.
	Quaking Aspen	2	Sapling/Pole	4	W	hite Oak	Low	< 5 feet	Seeding	Cut all but red and white pine and marked retention. Planted 1992 3/0 red
	Red Oak	5	Sapling	3						^¹ pine. 2011FMD: 75 yr old rp in scattered overstory with 20 yr old rp planted under. This planted pine had a lot of trouble getting started as
	Red Maple	5	Sapling/Pole	4						did other sites planted that year. Some is stating to grow now but there
	White Oak	8	Sapling	3 30						are still problems with health and vigor. Jack pine is out growing red
										nine

10

Pole/Sapling

6 30

Jack Pine

pine.

2011FMD: Thick mixed regeneration through most of stand. Will have to

leave overstory and let stand develop. South end of stand is mostly rp in

overstory and less understory has developed. A little bit of planted rp

age 20 on west side of stand.



Stan	d Level 4 C	over Type)	Size Densit	У	Acres Stand Age BA	A Range	Managed S	ite	General Comments	
13	42290 - Nat	ural Mixed	Pine	Sawtimber W	'ell	64.5 85	111-140	N/A		2022: Snow drift Mix 61-035-18. Prepped but not sold. May want to	
	Canopy Species	% Cove	r Size Class	DBH Ag	е	Sub-Canopy Species	Density	Avg. Height	Size	mark some more red pine and whit pine and poor quality if found if this needs to be re-cruised. Stands seem to regenerate well with less	
	White Pine	14	Pole	7		White Oak	Low	5 - 10 feet	Sapling	overstory. 2001:PI stands 12,8,7, were all one J6 stand in o/i.	
	Red Pine	18	Log	13 85		White Pine	Low	5 - 10 feet	Sapling	2011FMD: most of stand is 75 yr old jack pine and red pine with	
	Red Oak	2	Log	14 12	2	Red Oak	Low	5 - 10 feet	Sapling	scattered large canopy oak. areas with well stocked younger age jp/wp age 40-45. Most is along west side. Some areas with light -moderate	
	Red Maple	10	Log/Pole	10		Red Maple	Low	5 - 10 feet	Sapling	oak regeneration. some pockets of saplings 10-20'. Could cut back to	
	Black Cherry	2	Pole	8		Black Cherry	Low	5 - 10 feet	Sapling	large scattered oak and older pine and trench and plant rp. MAY WAN	
	White Oak	12	Log	12 12	2					TO WORK AROUND POCKETS THICK WITH 40-45 YR JP/WP. Red pine grew well in this stand. Ground lays good. Not too heavy with	
	Jack Pine	40	Pole/Log	9 85						advanced regeneration at this time but there are some areas heavier w	
	Bigtooth Aspen	2	Pole	7						oak.	
14	4310 - Pi	ine, Oak M	lix	Sawtimber W	'ell	66.8 92	81-110	N/A		2022: Mixed sizes logs/small log/poles. Younger aged oak, pine and re	
	Canopy Species	% Cove	r Size Class	DBH Ag	е	Sub-Canopy Species	Density	Avg. Height	Size	maple generated from last harvest-age 47. Jack pine is falling out of stand. Low quality stems except for the rp/wp. Some smaller acreage	
	Red Oak	10	Log/Pole	14 100)	White Pine	Medium	< 5 feet	Sapling	aspen clones. The oak and red maple in the younger age class is low	
	White Oak	20	Log/Pole	14 100)	White Oak	Medium	< 5 feet	Sapling	quality but there are some well formed white oak saplings and poles.	
	Bigtooth Aspen	3	Pole	8 48		Red Maple	Low	5 - 10 feet	Sapling	Some large older wolfy oak scattered. The red and white pine had goo growth and is getting large. Some younger ages of white pine and oak	
	Jack Pine	4	Log/Pole	10 92		Red Oak	Low	< 5 feet	Sapling	but not enough to keep good stocking if the older age class is removed	
	White Pine	25	Log	15 92			1			May want to final harvest part or all of this stand and plant red pine. Ma	
	Red Pine	23	Log	13 93						want to remove the larger pine and the poor quality and let the oak understory develop. There is a general oak seedling layer at this time to	
	Red Maple	15	Pole	8 48						not advanced. West part of stand could be thinned with stand 65. The	
										most successful action may be to simply harvest and re-plant. Stand 1 to north has been prepped and not sold. 2002fmd: Scattered pine and hardwood over the oak regeneration O3M2J4M4. FMD2011: stand is low-moderately in the older age class with oak/wp/rp/jp. age 80-100. T 38 yr age class is trying to grow through with wp, oak, red maple, asper The second age is pretty scraggly with the amount of canopy that it is trying to grow through. There is in addition, a fair amount of oak seedlings and white pine saplings in places. Consider getting some of the overstory out to release second age or let it all grow in together. Have concern about the white pine in the stand getting too large if it is left. Average 14" dbh current. Also have concern about damage to the 38 year class. Counted both ages in canopy.	
15	42290 - Nat			Sawtimber Po		59.6 85	51-80	N/A		2022: Oak in canopy gaps is slowly advancing. 10-20' and some 20+. Some younger jp called in canopy. Too much overstory may have bee	
	Canopy Species		r Size Class	DBH Ag		Sub-Canopy Species	Density	Avg. Height	Size	left for regeneration harvest or this could have been removed after 10	
	White Pine	30	Log	16 85	_	Red Pine	Low	5 - 10 feet	Sapling	years. Let stand develop. Not many options at this time without damaging younger age class. Factor limit for regeneration. 2002FMD:	
	Red Pine	40	Log	15 85		Jack Pine	Medium	10 - 20 feet	R7 Stand was cut in 1991 with scattered pine and oak left. Area is regenerating to oak red maple rp jp. TS # 025-87. TCR 8/91 PI		
	Jack Pine	10	Pole	6 30		Black Cherry	Low	10 - 20 feet			
	White Oak	10	Log	14 12	_	Red Oak	Low	>20 feet	Sapling	apling 11,13,14 all in sale. Cut all but red and white pine and marked retenti	

Low

Medium

Low

Medium

10 - 20 feet

>20 feet

>20 feet

>20 feet

Sapling

Sapling

Sapling

Sapling

White Pine

Bigtooth Aspen

Red Maple

White Oak

14 122

10

Log

Red Oak



Stand	nd Level 4 Cover Type			Size De	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments		
16	42250 -	Pine, Oak	S	awtimb	er Poor	12.4	85	1-50	N/A		2022: Planted red pine density is variable. Some pockets of white oak		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	saplings and some jp pockets. Red pine is 4-5" dbh. Decent height growth last 12 years. Canopy also has variable stocking. Should move		
	Red Oak	15	Log	14	122	W	hite Pine	Low	10 - 20 feet	Sapling	younger age to canopy next entry. 2002FMD R3 TS # 025-87. TCR		
	White Oak	25	Log	13		Bla	ck Cherry	Low	10 - 20 feet	Sapling	8/91 PI stands 11,13,14 all in sale. Cut all but red and white pine and		
	White Pine	10	Log	15	85	R	led Oak	Low	5 - 10 feet	Sapling	marked retention. Planted 1992 3/0 red pine. 2011FMD; Use residual pine and oak for canopy calls and stand age 75. Residual pine and oak		
	Red Pine	50	Log	15	85	R	ed Pine	High	10 - 20 feet	Sapling	with planted red pine age 20 and mix filling in. Planted red pine is		
						Re	ed Maple	Low	>20 feet	Sapling	starting to grow but had a bad start. Issues with these plantings from that		
						Ja	ack Pine	Medium	10 - 20 feet	Sapling	year. Will have to let this stand grow in.		
						Bigto	ooth Aspen	Low	>20 feet	Sapling			
						W	hite Oak	Medium	5 - 10 feet	Sapling			
17	4122 -	Oak, Pine	S	awtimb	er Well	18.8	112	51-80	N/A		2022: Mixed sizes of oak with pine overstory in lower stocking. Good bit		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of white pine growing through along with oak and red maple seedlings and saplings. Let stand develop. 2011: Was part of TS# 044-95.		
	Red Pine	10	Log/Pole	10	92	W	hite Pine	Medium	Variable	Sapling	and daplings. Est stand develop. 2011. Was part of 10% 011 ou.		
	White Pine	30	Log	12	92	W	hite Oak	Low	5 - 10 feet	Sapling			
	Red Oak	20	Log/Pole	14		Ja	ack Pine	Low	5 - 10 feet	Sapling			
	White Oak	40	Log	13	112	R	led Oak	Low	5 - 10 feet	Sapling			
						Re	ed Maple	Low	>20 feet	Sapling			
18	42141 - Planted Dec	Mixed Pine	, Mixed P	oletimb	er Well	77.3	30	1-50	N/A		2022: Planted red pine with natural jack pine. Red pine continues to struggle along.,		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	This plantation seemed to have many problems since the start. The trees that are not suppressed and stagnant have had decent growth over		
	Red Oak	5	Sapling	4		Bla	ck Cherry	Low	5 - 10 feet	Sapling	the last decade. Let stand develop. 2002FMD: R3 Scattered oak and		
	White Oak	5	Sapling	4		Re	ed Maple	Low	5 - 10 feet	Sapling	red pine saw. TS# 026-87 TCR 9/91 Cut all merchantable but no red pine		
	Red Pine	35	Pole	5	30	R	led Oak	Low	5 - 10 feet	Sapling	and no blue marked. Sold JP OAK and MX HWD. Planted 1992 3/0 Red pine. 2011FMD: Planted red pine that was part of a number of		
	Jack Pine	35	Pole	6	30	W	hite Oak	Low	5 - 10 feet	Sapling	plantations done in that year that had many issues is the early years.		
	Black Cherry	20	Sapling/Pole	4	30						Trees may have been J rooted or problems with stock. Jack pine and		
											black cherry are major components of this stand at this time. Red pine has been growing the last 7-8 years. The edges are worse but it looks a little better as you get back in to the interior of stand. Just et this stand develop. May eventually convert to oak. A fair amount seems to be getting started in sub-canopy of pine.		
19	3102	- Grass		Nonst	ocked	2.5	U	nspecified	No		Old well pad, plugged 1999. Looks like it may have some soil. Decent vegetation.		



Stand	Level 4 C	over Type	:	Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
20	42290 - Natu	ıral Mixed F	Pine S	awtimb	er Well	51.0	93	81-110	N/A		2022: The jack pine in this stand is falling out and should be harvested.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Consider removing jack pine and larger red pine. This should increase the formation of oak understory that could be release in ten or twenty
	White Oak	14	Pole	7		W	hite Oak	Low	5 - 10 feet	Sapling	years by the removal of most of the remaining overstory. A better option
	Red Pine	50	Log/Pole	13	93	R	led Oak	Low	5 - 10 feet	Sapling	may be to cut this and re-plant red pine. The red pine has grown well
	Jack Pine	30	Log	11	93	Bla	ck Cherry	Low	5 - 10 feet	Seeding	here and is getting oversized. There is a lot of surrounding acres that is going to oak mixes. This stand does not have a heavy oak understory at
	Black Cherry	2	Pole/Sapling	8							this time but it is considerable. There is a good bit of nice formed WO
	Red Oak	2	Pole/Sapling	8							saplings and small poles mixed through . Could go through and green
	Red Maple	2	Pole/Sapling	8							mark those and cut the rest to 1" Keep some other pine and larger oak scattered around. This stand would go to upland mix and mostly white
											oak. Depends on if we want to fight for some new red pine stands in this area. Most all has been lost to upland mixes.
21	4126 - White, E	Black, N. Pi	in Oak	Sapling	Poor	79.1	20	1-50	N/A		2022: Scattered oak logs and a few red pine poles with oak
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	saplings/poles/seedlings. A small amount of jp seedlings. 2018: TS# 010-14. Cut to 4" but no green marked. Removed jp/oak over-story to
	Red Pine	10	Pole	8	85	W	hite Oak	Medium	< 5 feet	Seeding	release advanced oak understory. Good stocking of oak saplings and
	White Oak	75	Sapling	2	20	W	hite Pine	Low	< 5 feet	Sapling	poles after harvest. Expect the rest to fill in with oak,rm, jp,wp. Stand
	White Oak	5	Log	12	122	Ja	ack Pine	Low	< 5 feet	Sapling	was part of two O/I stands J6/J5 Red pine site index better represents site. South half of stand was cut in 2005. 2011FMD; Most is planted red
	Black Cherry	5	Sapling	2		R	Red Oak	Low	< 5 feet	Seeding	pine and natural ? jack pine with scattered white oak logs and poles.
	Red Oak	5	Sapling	2		R	ed Pine	Low	< 5 feet	Sapling	RP>JP ration in canopy changes around stand. Some wp regen pockets
						Re	ed Maple	Low	5 - 10 feet	Sapling	in understory. Pockets of oak regen inunderstory where jack pine is declining but there is not too much at this time. May be able to harvest
						Bla	ck Cherry	Low	5 - 10 feet	Sapling	most stems and trench and plant this-however-consider greenup
											requirements for stand to the south which is not generally 5' tall. But if this stand is carried on till next entry there is a risk of jack pine declining and oak coming in to the point that options are limited. We have a lot of pine ground converting to oak in this area so it may be good to try to get this stand back in pine. Red pine grew much better than jack pine.
22	6229 - Mixed	l lowland sh	nrub	Nonsto	ocked	5.6	U	Inspecified	No		2022: Low density trees with tag alder
23	42290 - Natu	ıral Mixed F	Pine S	awtimb		6.5	92	111-140	N/A		2022: Nice pine mix on slope. Good bit of wp saplings growing through in places. 2011: Slope and transition zone against the creek bottom.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Red and white pine along slope and red maple poles along bottom. More
	Red Oak	10	Log	16	100	W	hite Pine	Medium	Variable	Sapling	white pine canopy and understory on west side.
	White Pine	30	Log	14	92	Ва	alsam Fir	Low	5 - 10 feet	Sapling	
	White Oak	10	Log	15	100						
No	rthern White Cedar	5	Log/Pole	12							
	Red Pine	40	Log	13	92						
	Red Maple	5	Pole/Log	8							



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments		
24	42250 -	Pine, Oak	9	Sawtimb	er Poor	99.6	93	1-50	N/A		2022: TS# 61-010-18. Harvest 2020. Cut to 4" but no white pine or		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	green marked trees. Shelter-wood/seed tree harvest. Mix of advanced oak regeneration 5-10' from 2009 harvest and new sprouts from 2020		
	Red Oak	5	Log	14		Ja	ick Pine	Low	5 - 10 feet	Sapling	harvest. Some open areas. Should result in well stocked regeneration,		
	Red Pine	55	Log	13	93	R	ed Oak	Low	5 - 10 feet	Sapling	Could switch stand to sapling pole stand next entry.		
	White Pine	5	Log	12		Re	ed Pine	Low	5 - 10 feet	Sapling			
	White Oak	35	Log/Pole	12	93	WI	hite Oak	High	5 - 10 feet	Sapling			
						Wh	nite Pine	Low	5 - 10 feet	Sapling			
						Re	ed Maple	Low	5 - 10 feet	Sapling			
25	790 - Other Bare/	Sparsely V	egetated	Nonsto	cked	1.7	U	nspecified			Active oil well pad: STATE UNION S2-29		
26	6129 - Mixed Conife	erous Lowla	and Forest Sa	wtimber	Medium	n 8.2	146	81-110	N/A		2022: Heavy blowdown in areas. Some parts well stocked. New stand		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	growing into blowdown areas with cedar, fir, birch seedlings and saplings. Large elevated hunting blind with footbridge may be on state		
	Hemlock	10	Log/Pole	12		Ва	lsam Fir	Low	< 5 feet	Sapling	land on south line. 2011: Stands 20 and 24 were one stand in o/i. C6		
	Tamarack	20	Log/Pole	12		Wł	nite Pine	Low	< 5 feet	Sapling	age 136 2011FMD: Lowland mix along east creek. Pretty heavy human		
	Red Maple	15	Pole/Sapling	6				-	1	1	use from private side with quad trails /bridge /blinds. Bridge and blinds are likely on private side.		
	Balsam Fir	10	Log/Pole	12							are interly on private side.		
No	rthern White Cedar	35	Log/Pole	12	146								
	Black Spruce	10	Log/Pole	12									
27	4191 - Mixed Upla Co	and Decidu	ous with S	Sapling N	/ledium	77.5	23	1-50	N/A		2022: Several ages in stand with pine and oak retention from last sale, oak sprouts from 2016 harvest and oak sprouts from 1998 harvest. Stand is filling in well with thick oak regen in areas. Pine and oak		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	retention from last treatment is variable with some patches of well		
	Bigtooth Aspen	5	Sapling	2	23	Re	ed Maple	Low	5 - 10 feet	Sapling	stocked pine poles. May want to remove some more overstory at some		
	Red Pine	15	Pole	7	30	R	ed Oak	Low	5 - 10 feet	Sapling	point or just let stand develop as is. Horse trails through stand from		
	Red Maple	15	Sapling	1	23	WI	hite Oak	Medium	5 - 10 feet	Sapling	private on south. 2016: TS# 011-14. harvested 10/2016. Over story removal. Cut all merchantable except no wp/rp 8" or less and no green		
	White Pine	25	Pole	7	30						marked Heavy oak understory with rm/wp/jp/aspen. A fair amount of		
	White Oak	30	Sapling	1	23						wp/rp under 8" were left along with some larger pine and oak that was		
	Red Oak	10	Sapling	1	23						green marked. Called old understory as new canopy. 2011: Part of this stand was R5 from o/i age 83. Most was O8 age 102 TS# 044-95. Thre		
											units with different specs but generally cut all jp wp aspen rm and larger wo pin oak. Left all rp and ro and wo under 14/16 dbh. West side was orange marked. TCR 7/98.		



and	Level 4 C	over Type		Size Densit	y	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
28	42250 -	Pine, Oak		Sawtimber W	/ell	21.2	85	81-110	N/A		2022: This stand should be harvested as the jp is declining and the rec
	Canopy Species	% Cover	Size Class	DBH Ag	е	Sub-Car	nopy Species	Density	Avg. Height	Size	pine is getting oversized. Some oak log sized pockets. Heavy poor quality oak brush under 5-10' and some rm pockets 10-20'. Some well
	Jack Pine	15	Log/Pole	11 85	5	Wh	nite Oak	Medium	5 - 10 feet	Sapling	formed white oak poles scattered around and some well formed oak log
	Red Oak	5	Log	15 10	6	Wh	ite Pine	Medium	10 - 20 feet	Sapling	trees. Most of the oak is low quality. Would be best to mow this with
	White Oak	30	Log	15 10	6	Re	ed Pine	Low	10 - 20 feet	Sapling	scattered retention to regenerate the stand and cause sprouting or to burn after harvest to re-start. Stocking is variable. Large area to the
	Red Pine	40	Log/Pole	13 85	5	Re	d Maple	Medium	10 - 20 feet	Sapling	north has been recently harvested. 2002FMD: Delayed treatment for
	White Pine	5	Log	12 10	6	Blac	k Cherry	Low	10 - 20 feet	Sapling	diversity. Remnants of old planting. Stand to west is o6 and age is
	Red Maple	5	Pole	8		Re	ed Oak	Low	5 - 10 feet	Sapling	younger. 2011FMD: Oak with planted pine. Some big old white pine. Good bit of aok and pine seedlings and saplings as well as areas with
.9	4310 - Pi	ne, Oak Mix	(Sawtimber Po	oor	47.5	127	1-50	N/A		heavy red maple saps 10-20'. More jp on east side of stand. This sta should be harvested soon to release understory and get jp before it all falls out. Cut most over story and leave retention of well formed oak a pine for mast and seed production. 2022: Good oak sprouting but getting browsed. Mix of sprouts from
	Canopy Species	% Cover	Size Class	DBH Ag	е	Sub-Car	nopy Species	Density	Avg. Height	Size	2020 harvest and saplings from 1996 harvest. Patches with thicker w saplings and poles. Thickets of oak saplings that were un-disturbed fr
	White Pine	20	Pole	6		Re	d Maple	Low	10 - 20 feet	Sapling	last harvest. Pine overstory should shelter oak regeneration as it
	Red Maple	10	Sapling/Pole	9 4		Wh	nite Pine	Low	5 - 10 feet	Sapling	develops May be able to retain pine until oak is ready to thin initially.
	Red Pine	30	Pole	6 85	5	Re	ed Pine	Low	< 5 feet	Sapling	61-010-18. Harvest 2020. Cut to 4" but no white pine, red pine 8" or or green marked trees. Shelter-wood/seed tree harvest. 2002FM
	White Oak	30	Log	13 12	7	Re	ed Oak	Medium	5 - 10 feet	Sapling	O8 Retention of stand for regeneration. Shelter-wood? TS# 031-95.
	Red Oak	10	Log	14 12	7	Blac	k Cherry	Low	5 - 10 feet	Sapling	TCR 8/96 Cut all jp wp mx hwd rp over 12" dbh and wo/po over 16" db Do not cut ro or rp less tha 12" dbh. Snowmobile trail 2011FMD: Cut
											yrs age. Understory is developing and growing through in places but there is too much remaining overstory in most areas of stand. Should consider removing most overstory and allowing new stand to develop.
0	4133 - Aspe	en, Mixed P	ine	Sapling We		4.9	25	51-80	N/A		2022: Aspen growing through pine and oak residual with wp and oak saplings. Aspen growth is variable with 2-5" dbh at this time. Let stan
	Canopy Species	% Cover	Size Class	DBH Ag	е		nopy Species	Density	Avg. Height	Size	develop. 2011: CR 11/96. Three units with different specs but general
	Red Oak	10	Log/Pole	12		Re	d Maple	Low	10 - 20 feet	Sapling	cut all jp wp aspen rmand larger wo pin oak. Left all rp and ro and wo
	White Oak	10	Log/Pole	12		Wh	ite Pine	Low	5 - 10 feet	Sapling	under 14/16 dbh. West side was orange marked. TCR 7/98. 2011Fl Aspen clone cut in last sale. Broke this stand out due to aspen densi
	Bigtooth Aspen	50	Sapling	3 25		Wh	nite Oak	Low	5 - 10 feet	Sapling	Scattered older pine and oak in canopy. Count aspen regen as first a
	Red Pine	20	Log/Pole	12 92	2	Re	ed Oak	Low	5 - 10 feet	Sapling	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
	White Pine	10	Log/Pole	12		Blac	k Cherry	Low	10 - 20 feet	Sapling	
31	3302 - Low Der	nsity Conifer	Trees	Nonstocke	d	1.6	·	Inspecified	No		Old well pad, plugged 11/21/73. Jack pine around edges
32	330 - Low-	Density Tre	es	Nonstocke	d	1.3	0 ι	Inspecified	No		2022: LOW DENSITY TREES. Illegal roads taking off through foreste stands from this point.



Stand	Stand Level 4 Cove			Size Density		Acres	Stand Age B	A Range	Managed S	Site	General Comments
33	4126 - White, E	Black, N. Pi	n Oak	Sawtimb	per Pooi	r 19.4	100	1-50	N/A		. 2022: very good aspen, rm, oak and wp regen in areas. Residual older oak and opine from last harvest scattered through stand. Good growth
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	and stocking. Some oak seedlings advancing with aspen and rm
	White Oak	40	Log	14	100	Quak	ing Aspen	High	5 - 10 feet	Sapling	sprouts. TS# 024-14. Cut to 4" but no rp/wp<8" or green marked.
	White Pine	20	Log	12		Bigto	oth Aspen	Low	5 - 10 feet	Sapling	Harvested 12/2016 2002FMD: A6 O7 and grass in north end of stand 2011FMD; MADE NEW STAND IN NORTH. PI St 168. Some
	Red Maple	10	Log/Pole	10		Re	ed Oak	Low	5 - 10 feet	Sapling	aspen clones are good quality while others seem to lack vigor. Stand is
	Red Pine	5	Log/Pole	12		Re	d Maple	Medium	5 - 10 feet	Sapling	patchy. Patches of jack pine in stand and jack pine seeding in in places.
	Red Oak	25	Log	14	100	Wh	ite Pine	Low	5 - 10 feet	Sapling	Consider cutting to regenerate. Could work in with stands 160, 168 and NF 56 to make some nice habitat.
						Blac	k Cherry	Low	5 - 10 feet	Sapling	THE 30 to make some file habitat.
						Ja	ck Pine	Low	< 5 feet	Sapling	
						Wh	nite Oak	Low	5 - 10 feet	Sapling	
34	3303 - Mixed Lo	ow Density	Trees	Nonst	ocked	2.3	U	Inspecified	No		Old well pad, plugged 1999. Bushy JP filly in . Used for landing 2020.
35	4191 - Mixed Upla Co	and Decidu	ous with	Sawtiml		l 11.5	85	81-110	N/A		2022: Stocking is variable with oak and pine logs. Good bit of oak scrub under. Red pine is smaller diameter that surrounding stands. Not a risk of getting over-sized soon. Could hold this stand and let understory
	Canopy Species	% Cover	Size Class		H Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	develop further. Could remove most overstory at this time keep some
	Red Oak	10	Log/Pole	14			ite Pine	Low	Variable	Sapling	well formed oak and smaller red pine. 2011: PRETTY SIMILAR TO PI
	White Oak	45	Log	16		Re	ed Pine	Low	10 - 20 feet	Sapling	ST 157 TO EAST. MORE WO IN CANOPY AND MOST ASPEN IS NOT CUT WP POLES FILLING IN CANOPY GAPS. RED MAPLE STUMP
	Bigtooth Aspen	5	Log	12		Wh	nite Oak	Medium	5 - 10 feet	Sapling	SPROUTS AT AGE 50? LET STAND DEVELOPE AND WHITE PINE
	White Pine	15	Log	12		Re	ed Oak	Low	5 - 10 feet	Sapling	GROW IN.
	Red Pine	20	Log/Pole	11	75						
36	4122 - 0	Oak, Pine		Sawtiml	oer Well	l 6.8	120	81-110	N/A		2022: Similar to stand 38 to east . Could treat together. Remove most
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	oak and pine to release advanced understory. Could cut most oak and RP 6" and over.
	White Pine	5	Log	12	85	Wh	ite Pine	Low	10 - 20 feet	Sapling	
	Red Pine	30	Log/Pole	10	85	Blac	k Cherry	Low	10 - 20 feet	Sapling	Would be ideal for hot prescribed burn after harvest to restart oak scrub.
	Jack Pine	5	Pole/Sapling	g 9	85	Wh	nite Oak	Medium	10 - 20 feet	Sapling	
	White Oak	50	Log	13	120	Re	d Maple	Low	10 - 20 feet	Sapling	
	Red Oak	10	Log/Pole	14		Re	ed Pine	Low	5 - 10 feet	Sapling	
						Re	ed Oak	Low	10 - 20 feet	Sapling	
37	4310 - Pir	ne, Oak Mix	x	Sawtimb	per Pooi	r 41.4	122	1-50	N/A		2022: Good regeneration of white oak, jp, wp growing under residual oak and pine. Let stand develop. Not enough canopy to be concern. TS#
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	069-06 Cut all jp aspen wp rm bc. TCR 5/09.
	White Oak	45	Log/Pole	16	122	Re	ed Pine	Low	5 - 10 feet	Sapling	71 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Red Pine	40	Log	13	85	Ja	ck Pine	Medium	5 - 10 feet	Sapling	
	White Pine	10	Pole/Sapling	g 6	40	Re	ed Oak	Low	5 - 10 feet	Sapling	
	Red Oak	5	Log/XLog	14	122	Wh	nite Oak	Medium	5 - 10 feet	Sapling	
				-		Blac	k Cherry	Low	5 - 10 feet	Sapling	
						Re	d Maple	Low	5 - 10 feet	Sapling	



Stand	Level 4 C	over Type		Size Density	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
38	4126 - White, I	Black, N. Pi	n Oak	Sawtimber Well	25.9	120	81-110	N/A		2022: Lower stocked mix of oak and red pine. A good bit of smaller red
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	pine poles that could be retained for shelter with most of the oak and larger pine removed. Advanced oak understory should develop. Good
I	Bigtooth Aspen	5	Log	11 85	W	hite Pine	Medium	>20 feet	Sapling	oak understory in most areas. A hot prescribed fire after harvest would
	Red Oak	20	Log	14 120	R	ed Maple	Low	5 - 10 feet	Sapling	be ideal for this stand to regenerate quality oak sprouts.
	Jack Pine	5	Pole/Log	8 85	F	Red Oak	Low	5 - 10 feet	Sapling	
	White Oak	45	Log	13 120	F	Red Pine	Low	>20 feet	Sapling	
	Red Maple	10	Pole/Log	9	W	hite Oak	Medium	5 - 10 feet	Sapling	
	White Pine	5	Log/Pole	10 85			,			-
	Red Pine	10	Pole/Log	8 85						
39	3302 - Low Der	nsity Conife	Trees	Nonstocked	1.9	L	Inspecified			Active gas well State Union 3A-29.
40	4191 - Mixed Upl	and Decidu	ous with	Sawtimber Well	36.4	74	81-110	N/A		2022: The red pine in this stand is getting oversized. There is some nice quality red oak in this stand scattered around and some large older oak
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	and white pine in places. Really good growth on the red pine with 14-16" diameters and 73 years. Heavy red maple poles and sapling growing
	White Pine	10	Log	12 85	W	hite Oak	Low	< 5 feet	Seeding	through in the pine heavy areas. Some jp left in stand. Some oak
	Jack Pine	3	Log	12 85	R	ed Maple	Medium	10 - 20 feet	Sapling	understory on west side. Difficult stand to prescribe with the amount of
	Black Cherry	2	Log	10	W	hite Pine	Medium	Variable	Sapling	red maple understory. Not enough quality to merit thinning and most of
	Red Maple	15	Pole	6 48	F	Red Oak	Low	< 5 feet	Seeding	the pine should come out anyway. The red maple would be hard to control if harvested but this seems to be an excellent red pine site. May
	Red Oak	20	Log	16 120						want to harvest part of this stand and treat with stands 50,54.
-	Bigtooth Aspen	10	Log	14 85						2011FMD: OLDER PINE AND OAK WITH 75 YR CLASS OF PINE, OAK, ASPEN/RM AND A DEVELOPING POLE/SAPLING STAND
	White Oak	15	Log	16 120						GROWING IN FROM LAST HARVEST. SOME BETTER LOOKING RED
	Red Pine	25	Log	14 74						OAK-LOOKS LIKE BETTER SOIL. A GROVE OF LARGE OLD WP IN
										CENTER AND AREAS HEAVIER TO RED PINE. AREAS OF STAND WITH HEAVY RM SAPS AND SOME AREAS HAVE A GOOD BIT OF RED PINE POLES. PRETTY MIXED UP STAND. COULD GET SOME PINE AND POOR QUALITY OUT BUT THE WHAT? MAY BE BEST TO LET IT GROW IN UNTIL IT MAKES MORE SENSE.
41	4126 - White, I	Black, N. Pi	n Oak S	Sawtimber Mediu	m 60.4	93	1-50	N/A		2022: Pretty heavy oak understory formed in most areas. (10-15') Most
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	is WO. Some areas with poor understory development. Could remove most overstory. Cut to 6" dbh? TS# 077 04. TCR 8/05 Cut all rm wp bc
	White Oak	60	Log	16 93	R	ed Maple	Low	5 - 10 feet	Sapling	jp aspen. Do not cut oak or rp 2011FMD: LEFT mix of oak logs/poles
	Red Pine	10	Log	12	W	hite Pine	Low	5 - 10 feet	Sapling	and red pine logs after last treatment. Heavy oak regen but little red pine
	Red Oak	30	Log	16 93	J	ack Pine	Low	5 - 10 feet	Sapling	regen. Let stand develop.
1					F	Red Oak	Low	5 - 10 feet	Sapling	
					Bla	ick Cherry	Low	5 - 10 feet	Sapling	
					W	hite Oak	High	5 - 10 feet	Sapling	

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Stand	l Level 4 C	over Type		Size Density	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
42	4122 -	Oak, Pine		Sawtimber Poor	22.0	85	1-50	N/A		2022: Good pockets of Oak regen 10-15'. Most is WO. More overstory
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	than desired but needs to remain due to advanced oak regeneration. TS# 077 04. TCR 8/05 Cut all rm wp bc jp aspen. Do not cut oak or rp.
	Red Oak	20	Log	16	WI	hite Pine	Low	5 - 10 feet	Sapling	Good oak regen in places 5-10 '. Jack pine is filling in a little behind.
	White Oak	50	Log	16 85	Ja	ack Pine	Low	5 - 10 feet	Sapling	There must have a been a good bit of advanced oak and white pine
	White Pine	10	Pole/Sapling	g 6	Bigto	ooth Aspen	Low	>20 feet	Sapling	regen when this was cut as a lot or it is 5-10' tall. A little red pine growing in and some aspen clones regenerating. Too much overstory left in
	Red Pine	20	Log	13 85	R	ed Oak	Low	10 - 20 feet	Sapling	places but just let this stand develop. Mix of oak
					W	hite Oak	Medium	10 - 20 feet	Sapling	logs/poles/saps/seedlings and white pine poles and saps.
					R	ed Pine	Low	5 - 10 feet	Sapling	
43	3302 - Low Der	nsity Conifer	Trees	Nonstocked	1.2	U	Inspecified	No		2022: OLD WELL PAD WITH JACK PINE GROWING IN. Well plugged 1973.
44	622	5 - Bog		Nonstocked	2.4	U	Inspecified	No		2022: Small low pocket. Lowland shrub with lowland trees on edges.
45	4126 - White, I	Black, N. Pi	n Oak S	awtimber Medium	n 81.5	100	51-80	N/A		2022: Good bit of oak regen (5-10') in patches. Most is white oak. Some
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	areas of stand are lacking in new age formation. Could reduce stocking and canopy closure to encourage second age to advance and form in
	Red Maple	10	Pole/Log	9	W	hite Oak	Medium	5 - 10 feet	Sapling	voids. Retain better formed oak and pine @ 20-40 ba. May also consider
	Red Oak	10	Log/Pole	14 100	Quak	king Aspen	Medium	5 - 10 feet	Sapling	waiting till next entry to allow gaps to fill in with regen. Tall pipe near
	White Oak	55	Log	13 100	R	ed Oak	Low	Variable	Sapling	where private corner should be and at south end as well on east line. Tall cedar pole on center of south line where corner may be.
	White Pine	20	Pole/Log	9	WI	hite Pine	Medium	Variable	Sapling	2002FMD:07 Retention of stand for regeneration purposes-shelter
	Red Pine	5	Log	12	Re	ed Maple	Low	5 - 10 feet	Sapling	wood? TS# 080-04. Cut orange marked-most is oak, A little rm wp. TCR 5/07 2011FMD: Stand is filling in pretty well. Good aspen where
										aspen was, pockets of thick oak seedlings and saplings and a good bit of white pine growing in. Let this stand develope. Flock of turkeys in area.
46	110 - Low I	ntensity Urb	an	Nonstocked	1.6	U	Inspecified			Producing gas well STATE UNION "AH" 2-28.
47	42201 - Natural Dec	White Pine,	Mixed	Sawtimber Well	6.0	128	111-140	N/A		2022: Nice older stand dominated by white pine. Looks healthy. In conservation viewer as potential old growth stand (SCA)
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	60	XLog/Log	18 128	Ва	llsam Fir	Low	5 - 10 feet	Sapling	
	Hemlock	10	Log	14 128	WI	hite Pine	Medium	Variable	Sapling	
	Red Maple	10	Pole	7						-
	Red Oak	2	Log/Pole	14 128						
	Bigtooth Aspen	15	Pole	7 49						
	White Oak	3	Log/Pole	14						

Compartment: 54



											Year of Entry: 2024
Stand	Level 4 Co	over Type	S	Size De	nsity	Acres	Stand Age E	BA Range	Managed S	iite	General Comments
48	6128 - Lowland (Dec	Coniferous, iduous	, Mixed	Sapling	Well	5.5	30	51-80	N/A		2022: Birch and balsam growing into larger saplings and poles. Dense stocking. Some older cedar and balsam remaining in stand. 2012FMD:
	Canopy Species	% Cover	Size Class	DBH	Age						C5F5C7E4 Most of old canopy is blown down. Stand is thick saplings and poles with a lot of cedar.
No	rthern White Cedar	25	Sapling	2							and poles with a lot of cedal.
	Balsam Fir	40	Sapling/Pole	2	30						
	Paper Birch	30	Sapling/Pole	4	30						
49	42290 - Natu	ıral Mixed F	Pine S	awtimb	er Well	102.2	85	81-110	N/A		2022 Red pine is getting large and jack pine is declining and falling out.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Consider harvesting and re-planting red pine. Ground is flat. Red pine has good diameter growth but large tops. Open grown look. Some
	Red Maple	2	Pole	8			sam Fir	Low	< 5 feet	Pole	pockets of white oak saplings and small poles. Most of the stand does
	Red Pine	58	Log	13	85	Blac	k Cherry	Low	5 - 10 feet	Sapling	not have well developed understory but a light -moderate level of oak and
	Jack Pine	30	Log	11	85	Jac	ck Pine	Low	5 - 10 feet	Sapling	cherry throughout. East side of stand is adjacent to recent planted stand. May want to either just remove jack pine and poor formed and let
	White Oak	8	Log	16	122	Re	ed Oak	Low	5 - 10 feet	Sapling	that go to oak or leave a buffer strip along the north edge and harvest the
	Bigtooth Aspen	2	Log	12		Wh	ite Oak	Medium	5 - 10 feet	Sapling	rest due to green up concerns. West part of stand could be harvested
		'				Wh	ite Pine	Low	5 - 10 feet	Sapling	and planted. Leave buffer along north edge for visual management. 2002:Stand was part of two O/I stands J6/J5 Red pine site index better
						Re	ed Pine	Low	< 5 feet	Sapling	represents site. South half of stand was cut in 2005. 2011FMD; Most is
						Red	d Maple	Low	5 - 10 feet	Sapling	planted red pine and natural? jack pine with scattered white oak logs and poles. RP>JP ration in canopy changes around stand. Some wp regen
											pockets in understory. Pockets of oak regen in understory where jack pine is declining but there is not too much at this time. May be able to harvest most stems and trench and plant this-however-consider green up requirements for stand to the south which is not generally 5' tall. But if this stand is carried on till next entry there is a risk of jack pine declining and oak coming in to the point that options are limited. We have a lot of pine ground converting to oak in this area so it may be good to try to get this stand back in pine. Red pine grew much better than jack pine.
50	4191 - Mixed Upla Co	and Decidu	ous with S	awtimb	er Well	83.6	120	111-140	N/A		2022: Quality red pine growing with oak logs. Some small area aspen clones in Northeast and Southern edge. White oak understory that is not
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	very advanced at this time. Red maple saplings and poles growing through in areas. North part of stand has larger diameters and more red
	White Pine	10	Log	14		Red	d Maple	Low	10 - 20 feet	Sapling	pine and better quality oak. Not enough quality in general for any crown
	Red Pine	12	Log/Pole	12	85	Wh	ite Pine	Low	Variable	Sapling	release thinning and most is mature. North part could be harvested and
	Jack Pine	3	Log	12	85	Re	ed Oak	Low	5 - 10 feet	Sapling	planted to red pine with stand 54. Red pine did well on this site. Good height growth and form. Small lowland pocket on east side 2011:
	Red Oak	20	Log	15	120	Re	ed Pine	Low	>20 feet	Sapling	Older oak and pine (110) with aspen , rm, oak, wp, poles growing in gaps-
	Red Maple	12	Pole	8	48	Wh	ite Oak	Medium	5 - 10 feet	Sapling	age 38? Also 75 yr old class of planted red pine with some white and
	Quaking Aspen	10	Pole/Log	9	48						jack pine. More red pine in north end and SW corner. Some red pine regen in younger age class and there is some scattered old aspen that
	White Oak	33	Log	15	120						was not cut last sale. Some areas have heavier white pine saps and

poles. Can't see many opportunities to improve this stand at this time. Could pull some oak logs out to open canopy but the damage to the younger age class would likely be excessive. May be best to wait for second age to grow in more. Consider treatment next entry.



Stand	Level 4 C	over Type		Size Density		Acres	es Stand Age BA Range		ge Managed Site		General Comments
51	4133 - Aspe	n, Mixed F	Pine Po	oletimb	er Well	16.6	49	81-110	N/A		2022: Older scattered large oak, pine and cherry. Areas with good aspen
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stocking and other parts of stand with heavy rm,bf,wp poles and saplings. Large WP scattered throughout stand. Let stand develop. Tall
	Balsam Fir	5	Pole/Sapling	6		Ва	ılsam Fir	Low	5 - 10 feet	Sapling	pine near corner location and at north end of private. 2012FMD: A5
	White Pine	25	Log/Pole/XLog	16	140	WI	hite Pine	Medium	Variable	Sapling	Stands 50 and 41 were connected in o/i 2011FMD; Scattered large white
	Red Maple	10	Pole/Sapling	6							pine and oak with white pine, aspen, balsam, oak red maple in 39 yr class. This stand was cut with other adjacent stands but left a lot of
	White Oak	10	Log/Pole	14	140						residual pine and oak. Should let this stand grow in for now and consider
	Bigtooth Aspen	30	Pole/Log	7	49						in future entries. Good upland thermal cover for critters. Old road off
	Quaking Aspen	15	Pole/Log	7	49						private in nw corner-cross low area to north
	Red Oak	5	Log/Pole	14							
52	6128 - Lowland Dec	Coniferous iduous	, Mixed Sa	awtimb	er Well	42.8	155	51-80	N/A		2022: Edge call on stand from previous field data. Water table higher at this time. 2002FMD: C5F5C7E4 2011FMD: Old canopy has been
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	reduced with a lot of blowdown. Good sapling sixed regen with a good bit of cedar fir and birch. Parts of stand are more cedar/red
	Yellow Birch	2	Log/Pole	10		Re	ed Maple	Low	10 - 20 feet	Sapling	maple/balsam/hemlock/birch but some pockets in stand go heavier to
	Black Ash	3	Pole	6		Pa	per Birch	Medium	10 - 20 feet	Sapling	spruce/fir/tamarack/cedar/aspen/red maple
	Quaking Aspen	10	Log/Pole	14		Blad	ck Spruce	Low	10 - 20 feet	Sapling	
	Red Maple	15	Log/Pole	14		Ва	ılsam Fir	Medium	10 - 20 feet	Sapling	
	Hemlock	5	Log/Pole	12		Northern	n White Cedar	Medium	10 - 20 feet	Sapling	
	Balsam Fir	15	Log/Pole	10							
	Tamarack	5	Log/Pole	12							
	Black Spruce	10	Log/Pole	10							
No	rthern White Cedar	25	Log/Pole	12	155						
53	4112 - Maple, Beec	h, Cherry A	Association Sa	awtimbe		14.4	72	1-50	N/A		2022: Un-able to access stand due to high water and private property.
	Canopy Species	% Cover	Size Class	DBH	Age						2018 imagery gives the impression of a food plot or such treatment in the south end. Looks like orv trails in north end from private. 2002FMD: Mopen grown maples. 2011FMD: Open grown red maple and cherry with
	Red Maple	90	Log	14	72						
	Balsam Fir	3	Pole	7						heavy bracken fern. Barely a forested stand. Would be good	heavy bracken fern. Barely a forested stand. Would be good to stick some pine in ground if we could access this stand.
	Black Cherry	4	Log	14							some pine in ground if we could access this stand.
	White Pine	3	Log	12							

Stand	i Level 4 C	Cover Type		Size Density		Acres	Stand Age B	A Range	Managed S	ite	General Comments
54	4310 - Pi	ne, Oak Mix	x	Sawtimb	er Well	20.4	85	111-140	N/A		2022: Mix or red pine and oak. This pine is mature and should be
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	harvested and re-planted. Some aspen patches may regenerate and red maple sprouts could be an issue for re-planting. Older aspen is
	White Pine	3	Log	14	85	Wh	nite Pine	Low	Variable	Sapling	declining. Good pine ground. Not a lot of advanced oak understory at
	Red Pine	55	Log	13	85	WI	nite Oak	Medium	< 5 feet	Sapling	this time. Motorcycle trail looping around and possibly new trail being
	Red Oak	10	Log	16	120	Re	d Maple	Low	>20 feet	Sapling	built. Access from north. Harvest with north part of stand 50. Retention strip along stand to north and along motorcycle trail? 2011fmd: NICE
	White Oak	10	Log	16	120	R	ed Oak	Low	< 5 feet	Sapling	PLANTED RED PINE WITH OAK LOGS AND ASPEN, RM
	Red Maple	10	Pole	7	48						POLES/LOGS. LOOKS LIKE MOST ASPEN WAS CUT OUT IN THE
	Bigtooth Aspen	12	Log	13	48						PAST -POLE SIZED NOW AGE 38? SCATTERED LARGE OLD OAK. FAIR AMOUNT OF RP SAPS 20-30 FT AND GOOD BIT OF OAK SEELINGS THAT WOULD LIKELY TAKE OFF IF CANOPY OPENED UP. MAY WANT TO GET MOST OF THE CANOPY OFF BUT WOULD ALSO HAVE TO CUT THE SMALLER ASPEN AND RED MAPLE TO PROPERLY RESTART STAND AND RELEASE OAK. MAY BE BEST TO LET YOUNGER AGE GROW IN UNTIL NEST ENTRY. PINE HAS SLOWED IN GROWTH BUT SHOULD BE ALRIGHT TO HOLD. IF THIS STAND IS TREATED PARTS OF PI STANDS 53 AND 39 THAT ARE ADJACENT ALSO HAVE A GOOD BIT OF RED PINE AND MAY BE INVOLVED.
55	6220 - A	lder/willow		Nonsto	cked	13.3			No		2022: Tag alder and cattails with low density trees. Transition along edges. 2012 Stand swapped from Forested to Non-Forested.
56	4126 - White, E			Sawtimb		7.9	102	1-50	N/A	0:	2022: Good aspen and rm regen growing through residual oak and pine. TS# 024-14. Harvested 12/2016. Cut to 4" but no rp/wp 8" or less and
	Canopy Species Red Pine	% Cover	Size Class	13	Age		nopy Species ed Oak	Density Low	Avg. Height 5 - 10 feet	Size Sapling	retain green marked.
	Red Pille Red Oak	25	Log Log	12	102		hite Oak	Low	5 - 10 feet	Sapling	
	White Pine	5	Pole/Log	9	102		d Maple	Medium	5 - 10 feet	Sapling	
	White Oak	55	Log	12	102		king Aspen	High	5 - 10 feet	Sapling	
	Red Maple	10	Pole/Log	8			nite Pine	Low	Variable	Sapling	
1						Blad	ck Cherry	Low	5 - 10 feet	Sapling	
							oth Aspen	Low	5 - 10 feet	Sapling	
57	6129 - Mixed Conif			Sapling		6.5	30	1-50	N/A		2022: Edge call based on previous inventory. Difficult to access due to high water and the amount of blowdown from 2012. Mix of saplings and
	Canopy Species		Size Class		Age						poles with log sized trees that remained in canopy after previous
	Paper Birch	10	Sapling/Pol		30						blowdown event in 1990's
No	orthern White Cedar	35	Sapling/Pol		30						
	Tamarack	10	Sapling/Pol								
	Black Spruce	15	Sapling/Pol		00						
<u> </u>	Balsam Fir	30	Sapling/Pol	e 3	30						



Stand	and Level 4 C	over Type	over Type		Size Density		Stand Age B	BA Range	Managed S	Site	General Comments
58	4319 - Mixed	l Upland Fo	rest	Sawtimb	er Well	5.4	70	111-140	N/A		2022: edge call based on old imagery due to high water table and
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	access issues . 2002FMD: M5 Hardwood Ridge in swamp. 2011FMD red maple oak and white pine with balsam and spruce.
	Black Spruce	5	Log/Pole	10	70	W	hite Pine	Low	10 - 20 feet	Sapling	Tou maple out and write pine with ballant and opiace.
	Balsam Fir	10	Log/Pole	10		Ва	alsam Fir	Medium	>20 feet	Sapling	
	White Pine	30	Log	11	70				1	1	
	Red Maple	35	Log	13	70						
	Red Oak	5	Log	15							
	White Oak	15	Log	13	100						
59	3303 - Mixed L	ow Density	Trees	Nonst	ocked	1.8	U	Inspecified	No		Low density oak and pine. May be good area to manage opening.
60	4122 -	Oak, Pine		Sapling	g Poor	212.0	14	1-50	N/A		2022: Moved canopy call to sapling stand. Some residual pine and oak.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	Good regeneration in most areas of white oak and jack pine. Some areas are less stocked. A couple age classes in the stand resulting from
	White Pine	5	Sapling	2		W	hite Oak	Low	< 5 feet	Seeding	
	White Oak	5	Log	12	85	Bigte	ooth Aspen	Low	< 5 feet	Sapling	2015. Cut to 4"dbh excluding green marked retention and all rp 6" or less
	Red Pine	5	Log	12	85	F	Red Pine	Low	< 5 feet	Sapling	2011FMD; RED PINE AND OAK OVERSTORY LEFT AFTER LAST HARVEST. MOST OAK IS IN THE 75 YEAR CLASS BUT THERE IS
	Jack Pine	20	Sapling	2	14	J	ack Pine	Low	< 5 feet	Seeding	
	White Oak	50	Sapling	1	14	F	Red Oak	Low	< 5 feet	Seeding	PINE UNDERSTORY DEVELOPING BUT VARIABLE STOCKING.
	Black Cherry	5	Sapling	1	7	R	ed Maple	Low	< 5 feet	Sapling	SOME AREAS ARE PRETTY WELL STOCKED WHILE OTHERS COULD BE PLANTED AFTER HARVESTING REMAINING
	Red Oak	10	Sapling	1	14				1	1	OVERSTORY. CONSIDER REMOVING MOST REMAINING
61	4131 - A	uspen, Oak		Poletimb	er Well	23.1	58	51-80	N/A		OVERSTORY AND TRENCHING AND PLANTING RED PINE INTO STAND AFTER HARVEST. WEAVE RED PINE IN TO AREAS WITHOUT ADEQUATE STOCKING. 2022: Low density oak logs with scattered large wp. RM, Oak and Asper
01	Canopy Species	•	Size Class		l Age		anopy Species		Avg. Height	Size	poles in younger age class. Aspen is declining. Could harvest aspen
	Paper Birch	2	Log	14	7.90		ak (spp.)	Low	5 - 10 feet	Sapling	and poor formed others to regenerate stand if access could be achieved. 2012FMD: Scattered oaks M4A4 2011FMD; Scattered older oak pine
	Bigtooth Aspen	20	Pole/Log	9	58		hite Pine	Low	Variable	Sapling	and paper birch left from last entry. Aspen. white pine red maple and oal
	Quaking Aspen	26	Pole/Log	9	58			2011	7 4114215	- aupg	in younger age class that has grown through. old pine stumps
	Black Cherry	2	Pole/Log	8							throughout stand. a few scattered beech. Stocking is variable as is diameter of younger age class. Could harvest for habitat management if
	White Oak	25	Log	16	100						access could be found through private lands.
	Red Oak	5	XLog/Log	18							
	Red Maple	10	Pole	7							
	White Pine	10	Log/Pole	12							
62	4112 - Maple, Beed	ch, Cherry A	ssociation	Sawtimb	er Well	5.4	72	51-80	N/A		2022: Did not do field visit due to high water and inability to access
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	through private. Update based on old data. 2011FMD: State land posted. Low quality rd maple.
	Red Maple	90	Log	13	72	W	hite Pine	Low	10 - 20 feet	Sapling	
	Balsam Fir	3	Pole	7		Ва	alsam Fir	Low	10 - 20 feet	Sapling	
	White Pine	3	Log	11							
	Black Cherry	4	Log	13							



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
63	4130	- Aspen	I	Poletimb	er Well	42.9	49	81-110	N/A		2022: This stand is ready to harvest and should regenerate well. Leave
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	most oak and pine with some cherry and red maple. Tall pipe at corner of private land. Access through private land is not known.
	Red Oak	2	Log	16		Bal	sam Fir	Low	5 - 10 feet	Sapling	• • • • • • • • • • • • • • • • • • • •
	Paper Birch	1	Log	12		Wh	ite Pine	Medium	5 - 10 feet	Sapling	
	White Oak	5	Log	16	100						
	Quaking Aspen	5	Pole	9	49						
	Bigtooth Aspen	65	Log/Pole	10	49						
	White Pine	8	Log/Pole	10							
	Black Cherry	2	Pole/Sapling	j 8							
	Red Maple	10	Pole	8	49						
	Balsam Fir	2	Pole	8							
64	4131 - /	Aspen, Oak	I	Poletimb	er Well	45.3	44	81-110	N/A		2022: Center of stand is quaking aspen that is starting to decline. Small
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	pockets of WP poles and saps and some oak poles. Larger scattered oak and pine. Likely trespass on south line. Found pipe next the the
	Quaking Aspen	50	Pole	9	44	Wh	ite Oak	Low	5 - 10 feet	Sapling	deer blind in the SE and a part of an old cedar post in the SE. Should
	Black Cherry	2	Log/Pole	10		Re	ed Oak	Low	5 - 10 feet	Sapling	get corners verified and flag line. Could green mark some retention Well
	Red Oak	10	Log/Pole	16		Wh	ite Pine	Low	5 - 10 feet	Sapling	formed oak and pine and cut to harvest. May want to cut only merchantable pine to retain some of the advanced regeneration. East
	White Oak	15	Log/Pole	14	102						part seems to be more mixed in areas. Well formed oak sapling and
	Bigtooth Aspen	10	Pole	9	44						poles noted that should be retained if harvested. 2002FMD: A5
	Red Pine	5	Log/Pole	14							Scattered oak cherry and red pine. Was hooked with stand 52 in o/1 2011FMD; Scattered oak and pine with good aspen stand. Aspen is
	White Pine	8	Log/Pole	14							variable in vitality. Some better looking clones. Save this stand until stands on both sides grow in more.
65	4126 - White,	Black, N. Pi	in Oak	Sawtimb	er Well	10.0	92	111-140	N/A		2022: New stand created. This area was split of of Stand 14 as this part
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	has a heavy oak component. This stand could be marked for thinning if the surrounding stand is treated however there are not a lot of crop
	White Oak	60	Log/Pole	11	92	Wh	ite Oak	Low	5 - 10 feet	Sapling	trees. May want to do it just to keep a healthy oak patch here.
	Bigtooth Aspen	5	Pole/Sapling	j 4	48	Re	ed Oak	Low	5 - 10 feet	Sapling	
	Red Pine	5	Log/Pole	10	93	Wh	ite Pine	Low	Variable	Sapling	
	Red Maple	15	Pole	8	48				I		
	White Pine	5	Log/Pole	10	92						
	Red Oak	10	Log/Pole	14	100						
66	4199 - Other Mixe	ed Upland D	eciduous :	Sawtimb	er Well	17.6	102	51-80	N/A		2022: The planted red pine understory is still growing in. 4-5" dbh.
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	Some has moved into canopy level but some areas are still well into the
	White Oak	35	Log	12	102	Red	d Maple	Low	5 - 10 feet	Sapling	sub-carlopy. The south edge of stand is hard to determine. More mixed
	Bigtooth Aspen	20	Log/Pole	10		Re	d Pine	Medium	>20 feet	Sapling	was underplanted with red pine that looks to be about 40 years old from
	Red Pine	15	Log/Pole	12	92	Wh	ite Pine	Medium	10 - 20 feet	Sapling	whirls and is stunted 2-4" dbh and 10-30'tall. Looks like it was just underplanted in oak/pine/aspen stand. The aspen in the south part of
	Red Oak	20	Log/Pole	13	102				I.		stand looks like it was part of another sale and looks to be same age @
	Red Maple	10	Pole/Log	8							40 but most of the aspen in the stand is older 65-80. White pine is also
	•										40 but most of the aspen in the stand is older 65-80. White pine is also growing in understory. Cant's see any way to release this small frail looking pine without a lot of damage. Just let it continue to try to grow through

through.



Stand	Level 4 Co	over Type	:	Size Density		Acres Stand Age E	BA Range	Managed S	ite	General Comments		
67	4122 - 0	Oak, Pine	S	Sawtimb	er Well	14.8 102	51-80	N/A		2022: Mixed sizes of oak, wp and rm. Oak seedlings starting to advance		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	nin gaps. A little aspen regen along with rm and wp. Stand looks good for now. Long term retention area in SE lobe from surrounding timber sale		
	Red Maple	10	Pole/Log	9		Red Maple	Low	10 - 20 feet	Pole	TS# 024-14. Harvested 12/2016. Cut orange marked and all jp/aspen.		
	White Oak	40	Log	14	102	White Pine	Low	>20 feet	Sapling	Marked to maintain oak/pine island and corridor with adjacent aspen		
	White Pine	25	Log/Pole	10	90	Quaking Aspen	Low	5 - 10 feet	Sapling	harvested. 2012:Scattered old red pine white pine oak wit 80 yr class grown in. A good bit of white pine filling in understory. Pretty		
	Red Oak	20	Log	14		White Oak	Medium	< 5 feet	Seeding	complicated stand but could consider releasing better crowns in the 80 v		
	Red Pine	5	Log	14	95	Red Oak	Low	< 5 feet	Seeding	class and some of the white pine saplings that are growing in. Could		
		1					1		1	I manage as an island and harvest the aspen in surrounding stand. Wes arm of stand is heavier to Jack pine.		
68	4126 - White, E	Black, N. Pi	in Oak S	Sawtimb	er Well	6.8 102	51-80	N/A		2022: Low quality moderately stocked oak mix. Oak brush understory.		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	Mix of oak logs and poles. Good for age class diversification in this area. Let stand develop.		
	Bigtooth Aspen	7	Log	12		White Pine	Low	10 - 20 feet	Sapling	aroa. Ect stand develop.		
	Red Pine	5	Log	12		Red Oak	Low	5 - 10 feet	Sapling			
	Jack Pine	2	Pole	8		White Oak	Medium	5 - 10 feet	Sapling			
	Red Maple	12	Pole	7				1	'			
	Red Oak	12	Log	14	102							
	White Oak	62	Log	12	102							
	Red Maple	10	Size Class Pole/Sapling	8	I Age	Sub-Canopy Species White Pine	Density Low	Avg. Height Variable	Size Sapling	tree next entry and regenerate aspen. Get some of the larger oak and pine out. Most is lower quality and wolfy. 2002FMD: W8 was how most was described. Residual pine over aspen. Other stand involved was A5 with a contract of the contract		
	Red Oak	25	Log/XLog	16	102					with Scattered oak cherry and red pine. Was hooked with stand 51 in		
	Bigtooth Aspen	20	Pole	8	44					o/1 2011FMD; Older oak and pine with (aspen clones aged 34 from las inv) White pine is filling in understory. Leave stand until adjacent stand		
	White Pine	25	Log/XLog	16	85					with recent harvests develop.		
	Red Pine	5	Log	14	85							
70	500 -	Water		Nonst	ocked	6.6		No		2022: Expanded water in old beaver dam. Did not see recent activity. 2012:dead cedar killed by high water small pond flowing water grassy		
71	3303 - Mixed Lo	ow Density	Trees	Nonsto	ocked	3.5		No				
72	42110 - Plar	nted Red P	ine F	Poletimb	er Well	32.7 26	111-140	N/A		2022: Good growth on red pine 1-2 stick average. Can likely row thin		
	Canopy Species	% Cover	Size Class	DBH	l Age					next entry. JP is as concern in some areas. Planted 1996 3/0 red pine 2012FMD: Mixed red pine and lack pine in old in strips that were		
	White Pine	2	Pole/Sapling							2012FMD: Mixed red pine and jack pine in old jp strips that were harvested and re-planted to red pine.		
	Red Pine	70	Pole	6	26							
	Black Cherry	10	Sapling	4								
	Jack Pine	18	Pole	_	00							
	odok i ilio	10	FUIC	6	26							



tano	d Level 4 C	over Type	ver Type S	Size De		Size Density		Size Density		Acres	Stand Age	BA Range	Managed S	Site	General Comments
74	6128 - Lowland		, Mixed F	Poletimb	er Poor	2.8	23	51-80	N/A		2022: Let stand develop. Mix of white pine and fir poles. Some larger oak and pine mixed through. 2002FMD: E4E7C4 parker creek influence.				
	Canopy Species	% Cover	Size Class	DBH	Age						Harvest will omit creek area leave cedar and hemlock. New stand is E2Q4 TS# 042-95. TCR 10/96. Cut all merchantable but no cedar				
	Red Oak	2	Log	14							hemlock oak. 2011FMD: Stand is a drier lowland type along upland				
	Red Maple	10	Pole/Sapling	5							stand. Stand is slowly filling with wp bf bs tamarac aspen. Left some big				
	Hemlock	2	Log	13							rm cedar oak. Not well stocked at this time.				
	Quaking Aspen	10	Pole	6											
	Balsam Fir	25	Sapling	3	23										
	Black Spruce	14	Pole/Sapling	6											
	Tamarack	5	Sapling	4											
	White Pine	30	Pole	6	23										
	Canopy Species		Size Class		Age		nopy Species		Avg. Height	Size	bit of oak seedlings. Similar to stand 89 but with more red pine and and larger red pine diameters. Consider cutting most of the oak and larger				
	Jack Pine	% Cover	Log/Pole	10	Age 85		nopy Species ed Oak	Low	Avg. Height < 5 feet						
	Red Oak	15	Log	16	100		hite Oak	Medium	< 5 feet	Seeding Seeding	pine and allowing advanced oak regen to grow in. May want to treat with stand 89. 2011FMD; Similar to stand 165 in origin but more red pine				
	Bigtooth Aspen	2	Log	12	100		nite Pine	Low	< 5 feet	Sapling	and less oak. Better diameter and growth on red pine.				
	White Oak	20	Log	14	100	VVI	iile i iile	LOW	\ J GGL	Sapiling					
	Red Pine	50	Log	11	85										
	Red Maple	10	Pole/Log	9											
	rted Mapie	10	1 Ole/Log	3											
76	4131 - A	spen, Oak	F	Poletimb	er Well	30.7	57	81-110	N/A		. 2022: Aspen is of good merchantable size and could be harvested. Opportunity for some good oak and pine retention or some retention				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pockets. aspen is denser in pockets with some areas with more oak, rm				
	Red Oak	13	Log	14		Blad	ck Cherry	Low	5 - 10 feet	Sapling	,pine. Some large oak scattered around. Jack pine is falling out but				
	Quaking Aspen	60	Pole	8	57	Ja	ick Pine	Low	< 5 feet	Sapling	some left. A few large red pine and some seedlings. Patchy oak				
	Bigtooth Aspen	5	Pole	9	57	Wh	nite Pine	Low	5 - 10 feet	Sapling	seedlings and saplings. Recent harvest adjacent on west side. May be able to hold to next entry. 2002FMD: A6 O7 and grass in north end				
	Jack Pine	5	Log/Pole	10		R	ed Oak	Low	5 - 10 feet	Sapling					

5 - 10 feet

Medium

Sapling

White Pine

Red Pine

White Oak

2

2

13

Log/Pole

Log/Pole

Log

12

12

14 100

White Oak

NF 56 to make some nice habitat.

aspen clones are good quality while others seem to lack vigor. Stand is

patchy. Patches of jack oine in stand and jack pine seeding in in places.

Consider cutting to regenerate. Could work in with stands 160, 168 and



Stand	Stand Level 4 Cover			Size Density		Acres	Stand Age E	A Range	Managed S	Site	General Comments
77	6132 - Mixed Lowla	nd Forest v	with Cedar	Sawtimb	er Well	9.0	76	81-110	N/A		2022: Mixed transitional stand. 2012: Mixed stand with cedar/spruce/balsam fir/red maple/y. birch/paper birch/aspen. Slight
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	changes in elevation cause changes between conifers and deciduous.
	Yellow Birch	5	Log	12		WI	nite Pine	Low	5 - 10 feet	Sapling	g
	Black Cherry	2	Log/Pole	10		Ta	ımarack	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	5	Log/Pole	10	95	Ва	lsam Fir	Low	10 - 20 feet	Sapling	
	Paper Birch	5	Pole/Log	8		Blad	ck Spruce	Low	5 - 10 feet	Sapling	
	Black Spruce	5	Log/Pole	10							_
	White Pine	5	Log/Pole	10							
No	rthern White Cedar	23	Log	13	117						
	Balsam Fir	10	Log/Pole	12							
	Red Maple	35	Log	12	76						
	Hemlock	5	Log/Pole	12							
78	4191 - Mixed Upla Co	and Decidu	ous with	Sawtimb	er Well	34.4	44	51-80	N/A		2022: Lower density oak, aspen and pine with balsam growing in. Would be good to harvest if possible. Cut aspen and most red maple. keep
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	well formed oak and pine. Did not find private corner but line has been posted so it is likely there. Stand would require access of private:
	White Oak	20	Log	13	85	Wh	nite Pine	Low	5 - 10 feet	Sapling	process of the micely and on standard require access of printered
	Paper Birch	5	Pole/Log	8		Ва	lsam Fir	Medium	Variable	Sapling	
	Quaking Aspen	35	Log/Pole	10	44	Re	d Maple	Low	10 - 20 feet	Sapling	
	Balsam Fir	15	Pole/Log	8							
	White Pine	5	Log	11							
	Red Maple	15	Log/Pole	10							
79	4126 - White, E	Black, N. Pi	n Oak S	awtimbe	r Medium	n 9.1	102	51-80	N/A		2022: Stand does have barrens looks and could be enhanced by harves
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	with retention of well formed wind firm oak and pine. Little volume but could be attached to an adjacent treatment. Wester part has little
	Red Maple	10	Pole/Log	8		Wh	nite Pine	Low	5 - 10 feet	Sapling	understory formation but a good bit of oak seedlings and saps in eastern
	White Oak	40	Log/XLog	16	102	WI	nite Oak	Medium	< 5 feet	Seeding	part. 5/22/12 SG-Stand has some Barrens characteristics. May have
	Quaking Aspen	18	Pole/Log	9	58	R	ed Oak	Low	< 5 feet	Seeding	potential in future to manage with nearby stands for Barrens. 2011FMD Oak with scattered aspen and pine. Could get aspen and poor quality
	White Pine	5	Log/Pole	12		Re	d Maple	Low	Variable	Sapling	trees out if working in adjacent stand.
	Red Pine	2	Log/Pole	12				<u> </u>	1		-
	Red Oak	25	Log/XLog	16	102						
80	4199 - Other Mixed	d Upland D	eciduous	Sawtimb	er Well	9.0	44	51-80	N/A		2022: Flat of pole sized oak, aspen, rm and wp. Some larger oak, maple
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	and pine mixed through. Stand could be treated with the oak areas thinned and the aspen harvested to regenerate but access does not
	White Pine	15	Pole/Log	8		WI	nite Pine	Low	5 - 10 feet	Sapling	seem possible.
	Black Cherry	1	Pole	8		Ва	lsam Fir	Low	5 - 10 feet	Sapling	
	Paper Birch	1	Log	12							-
	Red Maple	10	Log/Pole	12							
	Red Oak	15	Log	14	102						
	Quaking Aspen	33	Log/Pole	10	44						
	White Oak	25	Pole/Log	8	44						



81	4129 - N	lixed Oak	Sav	vtimbei	Mediun	n 43.8	43.8 102 51-80		N/A		2022: Some large oak scattered in stand with smaller pole/small log		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	poles. Aspen scattered in stand and in clonal pockets. Pockets of the oak regen-most is WO. Some barren areas. Some WP filling gaps.		
	Red Oak	31	Log/Pole	14	102	W	hite Oak	Medium	5 - 10 feet	Sapling	Could green mark some bigger oak and the well formed oak poles.		
	White Oak	30	Log/Pole	14	102	R	ed Oak	Low	5 - 10 feet	Sapling	aspen and most RED MAPLE. Aspen and red maple would regener		
	Bigtooth Aspen	15	Pole/Log	9	42	WI	nite Pine	Low	5 - 10 feet	Sapling	along with advanced oak regeneration forming new mixed stand. Co wait but seems like it would work well now. 2002FMD: O7O4M4 TS		
	Red Pine	2	Pole/Log	9							04 Cut orange marked. TCR 5/07 2011FMD: Cut marked oak last		
	Jack Pine	2	Pole	9							and left aspen clones that are pole/sapling size. A lot of oak seedlin		
	Quaking Aspen	10	Pole	8	42						on the ground but not going anywhere yet. Aspen is poor looking in quality and vigor. Not much white pine growing in at his time of muc		
	White Pine	5	Log/Pole	10							anything but oak seedlings. Let stand develop.		
	Red Maple	5	Pole/Sapling	6							, ,		
82	42290 - Natu	ral Mixed F	Pine Sa	awtimb	er Well	9.4	95	51-80	N/A		2022: Mixed upland and lowland with wet old sphagnum pockets. G		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	bit of larch saplings in lower areas. Slightly higher areas with pine, spruce, maple, oak. Looks like it will self sustain as jp falls out. 201		
	Red Oak	5	Log	14		WI	nite Pine	Medium	5 - 10 feet	Sapling	Higher ground and slight ridge with b, spruce red pine white pine ja		
	White Oak	5	Log	14		Ta	marack	Low	5 - 10 feet	Sapling	pine. Could look at getting jp out and regenerating?		
	Black Spruce	24	Log/Pole	12	95	Ва	lsam Fir	Low	5 - 10 feet	Sapling			
	Red Pine	20	Log	14	95	Blad	ck Spruce	Low	5 - 10 feet	Sapling			
	White Pine	20	Log/Pole	14									
	Red Maple	6	Pole/Sapling	8									
	Jack Pine	20	Log	12	95								
83	6132 - Mixed Lowla	nd Forest v	with Cedar Sa	awtimb	er Well	37.3	118	111-140	N/A		Blow down and mortality especially along creek drain. Mix of seeps		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	slightly higher ground. Big WP scattered. 2012FMD: C6 Headwater parker creek. PI stand 54 was part of this stand. Rich mixed		
No	orthern White Cedar	25	Log	14	118	Ва	lsam Fir	Medium	5 - 10 feet	Sapling	conifer/deciduous swamp. Most is older but areas with heavy blowd		
	Basswood	5	Log/Pole	14		Northerr	White Cedar	Low	< 5 feet	Sapling	and pockets of young doghair fir/birch/ash.		
	Yellow Birch	2	Log/Pole	14		Н	emlock	Medium	5 - 10 feet	Sapling			
	Quaking Aspen	10	Log	14		WI	nite Pine	Medium	5 - 10 feet	Sapling			
	Paper Birch	3	Log/Pole	12									
	White Pine	10	Log	16									
	Balsam Fir	10	Log/Pole	12									
	Red Maple	20	Log	15									
	Hemlock	10	Log	13									

Report 7 - Stands



Compartment: 54

Year of Entry: 2024

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Stand	Level 4 C	over Type	1	Size D	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
86	4126 - White,	Black, N. P	in Oak	Saplii	ng Poor	41.4	16	1-50	N/A		2022: Heavily stocked with white oak saplings growing through oak and
	Canopy Species	% Cover	r Size Class	DE	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine retention from last harvest. TS# 002-14. harvest 2015. Cut to 4"dbh excluding green marked retention and all rp 6" or less
	Red Oak	10	Sapling	1		R	ed Oak	Low	< 5 feet	Sapling	2011FMD;OAK LOGS/POLES/SAPS/SEEDLINGS. SHOULD GET
	White Oak	5	Log	12	85	Re	ed Pine	Low	< 5 feet	Seeding	MOST REMAINING OVERSTORY OFF TO RELEASE NEW STAND
	Red Pine	5	Log/Pole	12	85	Wh	nite Pine	Low	Variable	Sapling	WHICH HAS DEVELOPED IN UNDERSTORY. COULD LEAVE RP.
	Jack Pine	5	Sapling	2		Ja	ck Pine	Low	< 5 feet	Sapling	
	White Pine	5	Log/Pole	10)	WI	nite Oak	Medium	< 5 feet	Sapling	
	White Oak	50	Sapling	1	16			,			-
	Black Cherry	10	Sapling	1	16						
	Red Oak	5	Log	14	85						
	Red Maple	5	Sapling	2	16						
87	6130 - Fir,	Aspen, Ma	ıple	Sawtim	ber Well	11.2	85	51-80	N/A		2022: Slightly higher ground with mixed species.
	Canopy Species	% Cover	r Size Class	DE	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Paper Birch	2	Log/Pole	10)	Re	d Maple	Low	5 - 10 feet	Sapling	
	White Oak	4	Log	12	2	Ва	lsam Fir	Medium	10 - 20 feet	Sapling	
	Quaking Aspen	20	Log	12	85	Blac	k Spruce	Low	10 - 20 feet	Sapling	
	Balsam Fir	20	Pole/Log	8	<u> </u>						
No	rthern White Cedar	15	Log	14	113						
	Tamarack	1	Log/Pole	12	2						
	Yellow Birch	1	Log	12	2						
	Hemlock	5	Log	15	85						
	Black Spruce	1	Log/Pole	10	85						
	Red Maple	30	Log	14	85						
	White Pine	1	Log	16	3						
88	42210 - Na	tural Red F	Pine	Sawtim	ber Well	6.3	92	111-140	N/A		2022: Aspen falling out of stand. Red pine good quality as it has grown
-	Canopy Species	% Cover	r Size Class	s DBH Age		Sub-Ca	nopy Species	Density	Avg. Height	Size	with less oak competition. Could harvest and plant red pine. Ground lays good for plantation management
	Red Pine	60	Log	12		WI	hite Ash	Low	5 - 10 feet	Sapling	.2011FMD: Red pine planted around old oak and white pine. Jack pine
	White Pine	5	Log	14	ļ	R	ed Oak	Low	< 5 feet	Sapling	and aspen falling out of stand. Red pine looks pretty good. Could retain
	Jack Pine	1	Log	11	92	WI	nite Oak	Medium	< 5 feet	Sapling	some well formed oak poles and large white pine and replant red pine. A fair amount of oak/wp/rm advanced regen could be a problem, Oak and
	Black Cherry	2	Log/Pole	10)	Wh	nite Pine	Low	5 - 10 feet	Sapling	and red maple seedlings are broused badly. Could open up canopy and
	White Oak	12	Log	16	3	Re	d Maple	Medium	< 5 feet	Sapling	let oak develop. Could treat with the eastern part of stand 165 which is
	Red Maple	5	Pole	8				1	1	1	similar but with less red pine.

Quaking Aspen

Red Oak

7

8

Log

Log

14 92

16



Stand	Level 4 Co	over Type	S	ize De	ensity	Acres Stand Age B	BA Range	Managed S	ite	General Comments
89	4191 - Mixed Upla Co	and Decidu onifer	ious with Sa	awtimb	er Well	7.2 85	111-140	N/A		2022: stand could be marked for crop tree release or could be harvested and planted to red pine. Red pine more suppressed in south part of
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	stand. 2011FMD; OAK LOGS AND POLES WITH INTERPLANTED RED PINE. A good bit of the red pine is suppressed but it grew pretty well
	Red Maple	5	Pole/Log	9		White Pine	Low	Variable	Sapling	where it had room =less oak/more red pine. Consider thinning stand to
	Red Oak	19	Log	12	100	Red Oak	Low	< 5 feet	Seeding	bring along better oak and pine or perhaps cutting most and weaving red
	White Oak	33	Log	13	100	White Oak	Medium	< 5 feet	Seeding	pine back in. Areas have advanced oak and white pine regen. Suppressed pine may not release at his point and oak is mediocre in
	Red Pine	37	Log/Pole	10	85	Red Maple	Low	< 5 feet	Seeding	quality.
	Quaking Aspen	4	Log	12	85		,			- '
90	6128 - Lowland (Dec	Coniferous iduous	, Mixed Sa	awtimb	er Well	29.8 120	51-80	N/A		2022: Some blow down patches and on edges but stand is better than many in area. Flooded area in west end. Drainage through stand.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Balsam Fir	20	Pole/Sap/Log	8	95	Balsam Fir	High	10 - 20 feet	Sapling	
	Black Spruce	25	Log/Pole	12	95	Red Maple	Low	10 - 20 feet	Sapling	
No	rthern White Cedar	30	Log/Pole	12	120	Black Spruce	Medium	10 - 20 feet	Sapling	
	Tamarack	5	Log	14	95					-
	Dad Manla	10	Log/Pole	12						
	Red Maple	10	Log/i ole	12						
	Quaking Aspen	10	Log	14	95					
91	Quaking Aspen 4191 - Mixed Upla	10	Log	14 oletimb	er Well	31.1 42	81-110	N/A		2022: Split this stand off off stand 114. Transitional area with mixed species and heavier oak component.
91	Quaking Aspen 4191 - Mixed Upla Co Canopy Species	and Deciduonifer	Log	14 oletimb		31.1 42 Sub-Canopy Species		Avg. Height	Size	•
91	Quaking Aspen 4191 - Mixed Upla	and Decidu onifer % Cover	Log lous with Po	14 DBH 9	er Well				Sapling	•
91	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine	and Deciduonifer Cover 20 2	Log Hous with Po	DBH 9 12	er Well Age	Sub-Canopy Species Balsam Fir Black Cherry	Density	Avg. Height 5 - 10 feet < 5 feet	Sapling Sapling	•
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak	and Deciduonifer Cover 20 2 20	Log Size Class Pole/Log Log/Pole Log	14 DBH 9 12 12	er Well	Sub-Canopy Species Balsam Fir Black Cherry White Pine	Density Medium	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet	Sapling Sapling Sapling	•
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine	and Deciduonifer Cover 20 2 20 8	Log Size Class Pole/Log Log/Pole Log Log	14 DBH 9 12 12 16	Per Well I Age 97 97	Sub-Canopy Species Balsam Fir Black Cherry	Density Medium Low	Avg. Height 5 - 10 feet < 5 feet	Sapling Sapling	•
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen	and Deciduonifer Cover 20 2 20 8 30	Log Size Class Pole/Log Log/Pole Log Log Pole	14 DBH 9 12 12 16 8	er Well Age	Sub-Canopy Species Balsam Fir Black Cherry White Pine	Density Medium Low Low	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet	Sapling Sapling Sapling	•
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry	10 and Deciduonifer % Cover 20 2 20 8 30 8	Log lous with Po Size Class Pole/Log Log/Pole Log Log Pole Pole/Log	DBH 9 12 12 16 8 8	Per Well I Age 97 97	Sub-Canopy Species Balsam Fir Black Cherry White Pine	Density Medium Low Low	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet	Sapling Sapling Sapling	•
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry Paper Birch	10 and Deciduonifer % Cover 20 2 20 8 30 8 2	Log lous with Po Size Class Pole/Log Log/Pole Log Log Pole Pole/Log Log/Pole	DBH 9 12 12 16 8 8 12	Per Well I Age 97 97	Sub-Canopy Species Balsam Fir Black Cherry White Pine	Density Medium Low Low	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet	Sapling Sapling Sapling	•
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry	10 and Deciduonifer % Cover 20 2 20 8 30 8	Log lous with Po Size Class Pole/Log Log/Pole Log Log Pole Pole/Log	DBH 9 12 12 16 8 8	Per Well I Age 97 97	Sub-Canopy Species Balsam Fir Black Cherry White Pine	Density Medium Low Low	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet	Sapling Sapling Sapling	•
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry Paper Birch Red Maple	10 and Deciduonifer % Cover 20 2 20 8 30 8 2	Log lous with Po Size Class Pole/Log Log/Pole Log Pole Pole/Log Log/Pole Pole/Log Pole/Log Log/Pole Pole/Log	14 DBH 9 12 16 8 8 12 8 8 2 8	er Well 97 97 42 er Well	Sub-Canopy Species Balsam Fir Black Cherry White Pine	Density Medium Low Low	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet	Sapling Sapling Sapling	species and heavier oak component. 2022: Red pine of good quality and size where it had room to grow. A
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry Paper Birch Red Maple	and Deciduonifer % Cover 20 2 20 8 30 8 2 10 Oak, Pine	Log lous with Po Size Class Pole/Log Log/Pole Log Pole Pole/Log Log/Pole Pole/Log Pole/Log Log/Pole Pole/Log	14 DBH 9 12 16 8 8 12 8 8 2 8	er Well Age 97 97 42	Sub-Canopy Species Balsam Fir Black Cherry White Pine Red Maple	Density Medium Low Low Low 111-140	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling	species and heavier oak component.
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry Paper Birch Red Maple	and Deciduonifer % Cover 20 2 20 8 30 8 2 10 Oak, Pine	Log lous with Po Size Class Pole/Log Log/Pole Log Pole Pole/Log Log/Pole Pole/Log Size Class Pole/Log Pole Size Class Pole/Log Size Class	14 DBH 9 12 16 8 8 12 8 BH DBH 16 16	97 97 42 er Well I Age 120	Sub-Canopy Species Balsam Fir Black Cherry White Pine Red Maple 10.1 120	Density Medium Low Low Low 111-140	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet 5 - 10 feet N/A	Sapling Sapling Sapling Sapling	2022: Red pine of good quality and size where it had room to grow. A good bit of it is smaller and stunted where it was overtopped. Some well formed oak but most is poor formed or wolfy. Good bit or WO seedlings under but patchy. 2022: Could harvest with scattered oak retention and
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry Paper Birch Red Maple 4122 - C Canopy Species	and Deciduonifer Cover 20 2 20 8 30 8 2 10 Oak, Pine	Log lous with Po Size Class Pole/Log Log/Pole Log Pole Pole/Log Log/Pole Pole/Log Size Class	14 DBH 9 12 16 8 8 12 8 BH BH BH BH BH BH BH	97 97 97 42 er Well	Sub-Canopy Species Balsam Fir Black Cherry White Pine Red Maple 10.1 120 Sub-Canopy Species	Density Medium Low Low Low Low Density	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2022: Red pine of good quality and size where it had room to grow. A good bit of it is smaller and stunted where it was overtopped. Some well formed oak but most is poor formed or wolfy. Good bit or WO seedlings under but patchy. 2022: Could harvest with scattered oak retention and plant red pine or could cut back to 10-40 ba of oak and pine and let
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry Paper Birch Red Maple 4122 - C Canopy Species Red Oak	10 and Deciduonifer % Cover 20 2 20 8 30 8 2 10 Oak, Pine % Cover 30	Log lous with Po Size Class Pole/Log Log/Pole Log Pole Pole/Log Log/Pole Pole/Log Size Class Log	14 DBH 9 12 16 8 8 12 8 BH DBH 16 16	97 97 97 42 eer Well 1 Age 120 120 95	Sub-Canopy Species Balsam Fir Black Cherry White Pine Red Maple 10.1 120 Sub-Canopy Species White Oak	Density Medium Low Low Low 1111-140 Density Medium	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height < 5 feet	Sapling Sapling Sapling Sapling Sapling	2022: Red pine of good quality and size where it had room to grow. A good bit of it is smaller and stunted where it was overtopped. Some well formed oak but most is poor formed or wolfy. Good bit or WO seedlings under but patchy. 2022: Could harvest with scattered oak retention and plant red pine or could cut back to 10-40 ba of oak and pine and let understory oak develop. Good bit of that already in area. Potential to
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry Paper Birch Red Maple 4122 - C Canopy Species Red Oak White Oak	10 and Deciduonifer % Cover 20 2 20 8 30 8 2 10 Oak, Pine % Cover 30 30 30	Log lous with Po Size Class Pole/Log Log/Pole Log Pole Pole/Log Log/Pole Pole/Log Size Class Log Log Log Log Log Log Log L	14 Deletime 9 12 16 8 8 12 8 Beawtime 16 16 16 16 16 16 16 1	97 97 97 42 er Well 1 Age 120	Sub-Canopy Species Balsam Fir Black Cherry White Pine Red Maple 10.1 120 Sub-Canopy Species White Oak White Pine	Density Medium Low Low Low 111-140 Density Medium Low	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height < 5 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2022: Red pine of good quality and size where it had room to grow. A good bit of it is smaller and stunted where it was overtopped. Some well formed oak but most is poor formed or wolfy. Good bit or WO seedlings under but patchy. 2022: Could harvest with scattered oak retention and plant red pine or could cut back to 10-40 ba of oak and pine and let understory oak develop. Good bit of that already in area. Potential to grow good red pine here. Could treat with some adjacent stands . 2011 FMD: Red pine likely planted. Age 65? Could not get age. Big red oak
	Quaking Aspen 4191 - Mixed Upla Co Canopy Species Balsam Fir White Pine White Oak Northern Pin Oak Quaking Aspen Black Cherry Paper Birch Red Maple 4122 - C Canopy Species Red Oak White Oak Bigtooth Aspen	10 and Deciduonifer % Cover 20 2 20 8 30 8 2 10 Oak, Pine % Cover 30 30 3	Log lous with Po Size Class Pole/Log Log/Pole Log Pole/Log Log/Pole Pole/Log Log/Pole Pole/Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole/Log Log/Log Log Log Log Log	14 Deletimb 9 12 16 8 8 12 8 Beautimb 16 16 12 16 12 16 16 12 16 16	97 97 97 42 er Well 1 Age 120 120 95	Sub-Canopy Species Balsam Fir Black Cherry White Pine Red Maple 10.1 120 Sub-Canopy Species White Oak White Pine Red Maple	Density Medium Low Low Low 111-140 Density Medium Low Low	Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling	2022: Red pine of good quality and size where it had room to grow. A good bit of it is smaller and stunted where it was overtopped. Some well formed oak but most is poor formed or wolfy. Good bit or WO seedlings under but patchy. 2022: Could harvest with scattered oak retention and plant red pine or could cut back to 10-40 ba of oak and pine and let understory oak develop. Good bit of that already in area. Potential to grow good red pine here. Could treat with some adjacent stands . 2011

DNR DNR

Stand Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments	
93 6129 - Mixed Coni	ferous Lowl	and Forest	Sapling	Poor	8.5	11	Immature	N/A		2021: Stand drier and starting to re-seed with tamarack, balsam, white	
Canopy Species	% Cover	Size Class	DBH	Age						pine and a little cedar. 2012: Beaver flooded area. Trees dead-cattail and tag alder.	
White Pine	20	Sapling	1	11						and tag alder.	
Balsam Fir	30	Sapling	1	11							
Tamarack	40	Sapling	1	11							
Northern White Cedar	10	Sapling	1	11							
94 4191 - Mixed Up	and Decidu onifer	ous with	Sawtimb	er Wel	I 9.4	97	81-110	N/A		2022: Upland mix of pine, fir, oak, rm, aspen. 2012:Older aspen than surrounding stand. May have left for older budding cover. Should keep	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	this for diversity of age classes.	
Balsam Fir	15	Pole	8		Wh	ite Pine	Low	Variable	Pole		
Paper Birch	5	Log/Pole	10		Bal	sam Fir	Medium	Variable	Sapling		
White Oak	25	Log/Pole	12	97						_	
White Pine	25	Log	15	97							
Quaking Aspen	10	Log/Pole	11	75							
Bigtooth Aspen	10	Log	12	75							
Red Maple	10	Log/Pole	14								
95 4191 - Mixed Up C Canopy Species	onifer	Size Class	Poletimb	Age		44 nopy Species	81-110 Density	Avg. Height	Size	2022: Moderately stocked mix with transition on edges and lower at Aspen looks alright at this point. 2002FMD: E5 2011FMD: Scatte older oak white pine red maple balsam. Looks like this was cut with	
Red Maple	20	Pole	9	Age		ite Pine	Medium	Variable	Sapling	surrounding aspen so first age is 34 but the soil is wetter and the stand has more fir growing in. Some areas are kinda wet.	
Yellow Birch	2	Log/Pole				sam Fir	Medium	Variable	Sapling		
White Oak	15	Log/Pole		85	241		1110 0110111	7 41.14.2.15	9459		
Balsam Fir	20	Pole	8	44							
Red Oak	15	Log/Pole		85							
Quaking Aspen	20	Pole	8	44							
Northern White Cedar	5	Log/Pole		85							
		=-9	10								
96 6119 - Mixed Lowl	and Decidu	ous Forest			l 8.0	92	51-80	N/A		2022: Mixed lowland deciduous mix. Red maple and aspen. Pretty wel 2002FMD: E6 Parker creek influence. Beaver flooding in area.	
Canopy Species	% Cover	Size Class		Age	Sub-Car	opy Species	Density	Avg. Height	Size	2002FMD: Eo Farker creek initidence. Beaver hooding in area. 2011FMD: Transition strip between uplands and lowland brush. Lowland	
White Pine	5	Log/Pole	10		Wh	ite Pine	Low	5 - 10 feet	Sapling	hardwoods.	
Red Oak	5	Pole	8		Bal	sam Fir	Low	10 - 20 feet	Sapling		
Bigtooth Aspen	25	Log	11	92							
White Oak	10	Pole/Log	8	120							
Red Maple	45	Pole/Log	8	92							
Black Spruce	5	Log	10	92							
Paper Birch	5	Pole	8								

Stand	Level 4 Co	over Type		Size Density	Acres	Stand Age B	A Range	Managed S	iite	General Comments			
97		ne, Oak Mix		Sawtimber Well			141-170	N/A		2022: Good tall red pine with some big oak, wp and rm scattered around. RM saps and small poles in gaps with some oak poles also.			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	Could harvest and plant red pine or could reduce ba to 80-120 and let			
	Red Maple	10	Pole/Log	8	W	/hite Oak	Medium	< 5 feet	Sapling	understory advance. Good bit of oak seedling-most is wo. 2002FMD: R9			
	Bigtooth Aspen	2	Log	12	W	hite Pine	Medium	5 - 10 feet	Sapling	Retention of stand for regeneration purposes. Shelter wood. 2011FMD Planted rp around oak and wp. Some aspen +rm age 65. Basal Area is			
	Red Oak	10	Log	16	R	ed Maple	Medium	>20 feet	Sapling	not too high but planted pine is clumpy.			
	White Oak	20	Log	17 116						could be good for stand to mark for a crown release but not real			
	White Pine	18	Log	14						interesting.			
	Red Pine	40	Log	13 75									
98	4191 - Mixed Upla Co	and Decidu	ous with	Sawtimber Well	4.6	113	51-80	N/A		2022: Mix of older oak and pine with small log/pole sized oak, rm, aspen, wp. 2011fmd: OLDER OAK AND SOME SCATTERED PINE			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	WITH YOUNGER AGED WHITE PINE ASPEN RM OAK GROWN IN.			
	Red Oak	20	XLog/Log	18 113	W	hite Pine	Medium	>20 feet	Sapling				
	White Oak	38	XLog/Log	18 113		Beech	Low	< 5 feet	Seeding				
	Bigtooth Aspen	10	Log	12	V	/hite Oak	Low	< 5 feet	Seeding				
	Balsam Fir	2	Pole	6	F	Red Oak	Low	< 5 feet	Seeding				
	White Pine	15	Log	16 95									
	Red Pine	5	Log/Pole	14 95									
	Red Maple	10	Pole/Sapling	9 8									
99	6113 - Lov	vland Mapl	e I	Poletimber Wel		65	81-110	N/A		Red maple pole stand with older rm and large white pine scattered around. Wet pockets but also drier areas. Let stand grow in. 2002FMD:			
	Canopy Species	% Cover	Size Class	DBH Age		anopy Species	Density	Avg. Height	Size	E6 Could be M type but scattered low W7. 2011FMD; Barely lowland.			
	Beech	1	Pole	9	W	hite Pine	Low	Variable	Sapling	Kinda wet but may be operable in dry or frozen conditions. Some			
	Red Oak	1	Log/Pole	10						scattered old red maple and white pine but most of stand is red maple poles.			
	Paper Birch	5	Log/Pole	10						poles.			
No	thern White Cedar	1	Log/Pole	10									
	White Pine	7	Log/XLog	16 99									
	Red Maple	84	Pole/Log	8 65									
	Black Cherry	1	Pole	8									
100	4139 - Aspen, I	Mixed Deci	duous	Sawtimber Well	16.8	52	81-110	N/A		2022: older oak and pine scattered around. Aspen is declining but red maple could use more time to become more merchantable. Some areas			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	have heavy aspen stocking but other areas heavier to red maple mix.			
	Jack Pine	2	Pole	8	R	ed Maple	Medium	>20 feet	Sapling	2002FMD: A5M4 2011FMD: Some wet areas. Scattered old WP RP			
	Red Maple	35	Pole/Log	8 52	В	alsam Fir	Low	10 - 20 feet	Sapling	OAK with aspen rm grown in. Decent rm. Most single stem. Could consider regenerating this around deer yard area.			
	Black Cherry	3	Pole/Log	8	W	hite Pine	Low	< 5 feet	Sapling	Consider regenerating this around deer yard area.			
	Red Oak	3	Log	14									
	White Pine	7	Log	12									
	White Oak	3	Log/Pole	12 147									
	Red Pine	3	Log	16									
	Paper Birch	3	Pole	8									
	Bigtooth Aspen	41	Log/Pole	10 52									

Canopy Species	Canopy Species % Cover Size Class DBH Age Sub-Canopy Northern White Cedar 2 Log/Pole 10 Honeysuckled White Pine 10 Log 14 Red Osier D Balsam Fir 5 Pole 6 Red Osier D Red Maple 13 Log/Pole 10 Red Osier D Quaking Aspen 70 Log 11 95 Canopy Species % Cover Size Class DBH Age Sub-Canopy Black Cherry 30 Pole 8 Red O Red Maple 50 Log 14 53 Red Ma White Oak 5 Log 16 99 White F Quaking Aspen 5 Log/Pole 10 White F White Pine 5 Log 14 Norway Spruce 3 Pole 8 Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White F Red Oak 25 Log 1	Stand Age BA Range	Acres Stand Age	BA Range Ma	naged Site	General Comments	
Sub-Canopy Species Northern White Cedar 2 Log/Pole 10	Northern White Cedar 2	95 1-50	4.3 95	1-50	N/A	2022: Most has died out due to high water. Drier now but more ponding	
Northern White Cedar 2	White Pine 10 Log 14 Red Osier D Balsam Fir 5 Pole 6 Red Maple 13 Log/Pole 10 Quaking Aspen 70 Log 11 95 102 4112 - Maple, Beech, Cherry Association Sawtimber Poor 6.5 Canopy Species % Cover Size Class DBH Age Sub-Canopy Black Cherry 30 Pole 8 Red Od Red Maple 50 Log 14 53 Red Ma White Oak 5 Log 16 99 White F Red Oak 2 Log 16 99 White F Quaking Aspen 5 Log/Pole 10 White F White Pine 5 Log 14 Norway Spruce 3 Pole 8 103 4310 - Pine, Oak Mix Sawtimber Poor 49.8 Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White F	opy Species Density	ub-Canopy Specie	Density Avg. I	leight Size		
Balsam Fir 5	Balsam Fir 5 Pole 6 Red Maple 13 Log/Pole 10 Quaking Aspen 70 Log 11 95 102 4112 - Maple, Beech, Cherry Association Sawtimber Poor 6.5 Canopy Species % Cover Size Class DBH Age Sub-Canopy Black Cherry 30 Pole 8 Red O Red Maple 50 Log 14 53 Red Ma White Oak 5 Log 16 99 White F Quaking Aspen 5 Log/Pole 10 White F White Pine 5 Log 14 Norway Spruce 3 Pole 8 Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White F Red Oak 25 Log 12 93 White G Red Pine 28 Log 11 85 Red O White Pine 20 Log 12 93	ckle (spp.) Medium	Honeysuckle (spp.)	Medium < 5	feet Tall Shru		
Red Maple 13	Red Maple 13 Log/Pole 10 Quaking Aspen 70 Log 11 95 102 4112 - Maple, Beech, Cherry Association Sawtimber Poor 6.5 Canopy Species % Cover Size Class DBH Age Sub-Canopy Black Cherry 30 Pole 8 Red Ma Red Maple 50 Log 14 53 Red Ma White Oak 5 Log 16 99 White F Quaking Aspen 5 Log/Pole 10 White F White Pine 5 Log 14 Norway Spruce 3 Pole 8 103 4310 - Pine, Oak Mix Sawtimber Poor 49.8 Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White F Red Oak 25 Log 12 93 White G Red Pine 28 Log 11 85 Red Oak White Pine 20 Log 12	r Dogwood Low	Red Osier Dogwood	Low 5 - 10) feet Tall Shru	frozen times or low water /dry years.	
Quaking Aspen 70 Log 11 95 95 1102 4112 - Maple, Beech, Cherry Association Sawtimber Poor 6.5 53 51-80 N/A 2022: some apples and oak planted in baskets. Some survival. 5/2 SG-Could plant patches of fruiting shrubs and/or spruce for food and cover. Sapling Size SG-Could plant patches of fruiting shrubs and/or spruce for food and cover. Sapling Size SG-Could plant patches of fruiting shrubs and/or spruce for food and cover. Sapling Size SG-Could plant patches of fruiting shrubs and/or spruce for food and cover. Sapling Size SG-Could plant patches of fruiting shrubs and/or spruce for food and cover. Sapling Size SG-Could plant patches of fruiting shrubs and/or spruce for food and cover. Sapling Size SG-Could plant patches of fruiting shrubs and/or spruce for food and cover. Sapling Size SG-Could plant patches of fruiting shrubs and/or spruce for food and cover. Sapling Size Size Sapling Size Size Size Size Sapling Size Siz	Quaking Aspen 70 Log 11 95 102 4112 - Maple, Beech, Cherry Association Sawtimber Poor 6.5 Canopy Species % Cover Size Class DBH Age Sub-Canopy Black Cherry 30 Pole 8 Red O Red Maple 50 Log 14 53 Red Ma White Oak 5 Log 16 99 White F Quaking Aspen 5 Log/Pole 10 White F White Pine 5 Log 14 Norway Spruce 3 Pole 8 Sub-Canopy 103 4310 - Pine, Oak Mix Sawtimber Poor 49.8 Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White F Red Oak 25 Log 12 93 White G Red Pine 28 Log 11 85 Red O White Pine 20 Log 12 93 Bigtooth A White Pi					_	
102 4112 - Maple, Beech, Cherry Association Sawtimber Poor 6.5 53 51-80 N/A	Canopy Species % Cover Size Class DBH Age Sub-Canopy Black Cherry 30 Pole 8 Red O Red Maple 50 Log 14 53 Red Ma White Oak 5 Log 16 99 White F Quaking Aspen 5 Log/Pole 10 White Pine 5 Log/Pole 10 White Pine 5 Log 14 Norway Spruce 3 Pole 8 103 4310 - Pine, Oak Mix Sawtimber Poor 49.8 Canopy Species % Cover Size Class DBH Age Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White F Red Oak 25 Log 12 93 White G Red Pine 28 Log 11 85 Red O White Pine 20 Log 12 93 Bigtooth A White Pine 20 Log 12 93 Bigtooth A<						
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Black Cherry 30 Pole 8 Red Oak Low 10 - 20 feet Sapling Red Maple 50 Log 14 53 White Oak 5 Log 16 99 Red Oak 2 Log 16 99 Quaking Aspen 5 Log/Pole 10 White Pine 5 Log 14 Norway Spruce 3 Pole 8 Bigtooth Aspen 1 Log/Pole 12 93 Red Oak 25 Log 11 85 Red Oak 25 Log 12 93 White Pine 20 Log 11 85 Red Oak 25 Log 12 93 White Pine 20 Log 12 93 Red Oak 25 Log 12 85 Red Oak 25 Log 12 86 Red Oak 25 Log 12 86 Red Oak 25 Log 12 87 Red Oak 25 Log 12 88 Red Oak 25 Log 12 89 Red Oak 25	Red Maple 50 Log 14 53 Red Max White Oak 5 Log 16 99 Balsam Red Oak 2 Log 16 99 White F Quaking Aspen 5 Log/Pole 10 White Pine 5 Log 14 Norway Spruce 3 Pole 8 Norway Spruce 3 Pole 8 Norway Spruce 49.8 Sub-Canopy Sub-Canopy Sub-Canopy Norway Spruce 49.8 Sub-Canopy Norway Spruce 1 Log/Pole 12 93 White F Norway Spruce Sub-Canopy Norway Spruce 1 Log/Pole 12 93 White F Norway Spruce Norway Spruce 1 Log/Pole 12 93 White F Norway Spruce Norway Spruce Norway Spruce Norway Spruce Norway Spruce Norway Spruce 1 1 Norway Spruce Nor	opy Species Density	ub-Canopy Specie	Density Avg. I	leight Size		
White Oak 5 Log 16 99 Red Oak 2 Log 16 99 Quaking Aspen 5 Log/Pole 10 White Pine 5 Log 14 Norway Spruce 3 Pole 8 Canopy Species 6 Cover Size Class DBH Age Bigtooth Aspen 1 Log/Pole 12 93 Red Oak 25 Log 12 93 Red Oak 25 Log 11 85 Red Pine 28 Log 11 85 Red Oak 25 Log 12 93 White Pine 20 Log 12 93 White Pine 20 Log 12 93 White Oak 25 Log 12 93 White Oak 25 Log 12 93 White Oak 25 Log 12 93 Red Maple Low 5 - 10 feet Sapling Red Maple Low 5 - 10 feet Sapling Sapling Sapling Sapling Size Sapling Size Sapling Size Sapling Size Sapling Size Sapling Size Sapling Sapling Sapling Size Sapling Size Sapling Size Sapling Sapling Size Sapling Sapling Size Sapling Sapling Sapling Size Sapling Sapling Size Sapling Sapling Size	White Oak 5 Log 16 99 Balsam Red Oak 2 Log 16 99 White F Quaking Aspen 5 Log/Pole 10 White F 10 10 White F 10 White F 10 10 10 White F 10 White F 10 White F 10 10 White F 10 10<	d Oak Low	Red Oak	Low 10 - 2	0 feet Sapling		
Red Oak 2 Log 16 99 Quaking Aspen 5 Log/Pole 10 White Pine 5 Log 14 Norway Spruce 3 Pole 8 Canopy Species 6 Cover Size Class DBH Age Bigtooth Aspen 1 Log/Pole 12 93 Red Oak 25 Log 12 93 Red Pine 28 Log 11 85 Red Pine 28 Log 11 85 White Pine 20 Log 12 93 White Pine 20 Log 12 93 White Pine Low 5 - 10 feet Sapling White Pine Low 5 - 10 feet Sapling Red Maple Sapling Sapli	Red Oak 2 Log 16 99 White F Quaking Aspen 5 Log/Pole 10 White Pine 5 Log 14 Log 14 Log Norway Spruce 3 Pole 8 Pole 8 Pole 8 Pole 49.8 Pole Pol	Maple Low	Red Maple	Low 5 - 10) feet Sapling		
Quaking Aspen 5 Log/Pole 10 White Pine 5 Log 14 Norway Spruce 3 Pole 8 103 4310 - Pine, Oak Mix Sawtimber Poor 49.8 85 1-50 N/A Canopy Species 6 Cover Size Class DBH Age Bigtooth Aspen 1 Log/Pole 12 93 Red Oak 25 Log 12 93 Red Pine 28 Log 11 85 Red Pine 28 Log 11 85 Red Oak 25 Log 12 93 White Pine 20 Log 12 93 White Pine 20 Log 12 93 White Pine 20 Log 12 93 White Oak 25 Log 12 93 White Oak 25 Log 12 93 Red Maple Low 5 - 10 feet Sapling White Oak 5 - 10 feet Sapling White Oak 5 - 10 feet Sapling Sapl	Quaking Aspen 5 Log/Pole 10 White Pine 5 Log 14 Norway Spruce 3 Pole 8 103 4310 - Pine, Oak Mix Sawtimber Poor 49.8 Canopy Species % Cover Size Class DBH Age Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White F Red Oak 25 Log 12 93 White Oak Red Oak Red Oak 25 Red Oak Red O	am Fir Low	Balsam Fir	Low 5 - 10) feet Sapling		
White Pine 5 Log 14 Norway Spruce 3 Pole 8 O3 4310 - Pine, Oak Mix Sawtimber Poor 49.8 85 1-50 N/A Canopy Species 6 Cover Size Class DBH Age Bigtooth Aspen 1 Log/Pole 12 93 White Pine 28 Log 11 85 Red Oak Low 5-10 feet Sapling Red Pine 28 Log 11 85 Red Oak White Pine 20 Log 12 Bigtooth Aspen 20 Log 12 Bigtooth Aspen 20 Log 12 Bigtooth Aspen 20 Log 12 Red Maple 20 Red Maple 25 Log 12 93 Red Maple 25 Log 12 93 Red Maple 26 Red Maple 27 Red Maple 27 Red Maple 28 Log 12 93 Red Maple 27 Red Maple 28 Log 12 93 Red Maple 29 Red Maple 25 Log 12 93 Red Maple 26 Red Maple 27 Red Maple 27 Red Maple 28 Log 12 93 Red Maple 26 Red Maple 27 Red Maple 27 Red Maple 28 Log 12 93 Red Maple 28 Red Maple 29 Red Maple 20 Log 12 93 Red Maple 20 Log 12 93 Red Maple 20 Log 5-10 feet Sapling Oak/pine scattered around and and interesting amount of oak and wh	White Pine 5 Log 14 Norway Spruce 3 Pole 8 O3 4310 - Pine, Oak Mix Sawtimber Poor 49.8 Canopy Species % Cover Size Class DBH Age Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White Fine Red Oak 25 Log 12 93 White Oak Red Oak Red Oak Log 11 85 Red Oak	e Pine Low	White Pine	Low 5 - 10) feet Sapling		
Norway Spruce 3 Pole 8 Norway Spruce 3 Pole 8	Norway Spruce 3 Pole 8 O3 4310 - Pine, Oak Mix Sawtimber Poor 49.8 Canopy Species % Cover Size Class DBH Age Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White Fine Red Oak 25 Log 12 93 White Gate Red Pine 28 Log 11 85 Red Oak White Pine 20 Log 12 Bigtooth A White Oak 25 Log 12 93 Red Ma					_	
Canopy Species Cover Size Class DBH Age Bigtooth Aspen 1 Log/Pole 12 93 White Pine Red Pine 28 Log 11 85 Red Oak White Pine 20 Log 12 93 Red Maple Sige Class Canopy Species Canopy Species Canopy Species Density Avg. Height Size Medium Size Sapling	Canopy Species % Cover Size Class DBH Age Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White F Red Oak 25 Log 12 93 White G Red Pine 28 Log 11 85 Red O White Pine 20 Log 12 Bigtooth A White Oak 25 Log 12 93 Red Ma						
Canopy Species % Cover Size Class DBH Age Bigtooth Aspen 1 Log/Pole 12 93 White Pine Medium 10 - 20 feet Sapling Red Oak 25 Log 12 93 White Oak Medium 5 - 10 feet Sapling Red Pine 28 Log 11 85 Red Oak Low 5 - 10 feet Sapling White Pine 20 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Oak 25 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Oak 25 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Oak 25 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Oak 25 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Oak 25 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Oak 25 Log 12 Page Pine Sapling Whit	Canopy Species % Cover Size Class DBH Age Sub-Canopy Bigtooth Aspen 1 Log/Pole 12 93 White F Red Oak 25 Log 12 93 White G Red Pine 28 Log 11 85 Red O White Pine 20 Log 12 Bigtooth A White Oak 25 Log 12 93 Red Ma						
Canopy Species % Cover Size Class DBH Age Bigtooth Aspen 1 Log/Pole 12 93 White Pine Medium 10 - 20 feet Sapling Red Oak 25 Log 12 93 White Oak Desired Pine 28 Log 11 85 Red Oak White Pine 20 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Pine 20 Log 12 Pigtooth Aspen Medium 5 - 10 feet Sapling Stand will likely keep filling in as oak grows into gaps and wp fills in. Bigtooth Aspen Medium 5 - 10 feet Sapling Stand will likely keep filling in as oak grows into gaps and wp fills in. Bigtooth Aspen Medium 5 - 10 feet Sapling Stand will likely keep filling in as oak grows into gaps and wp fills in. White Oak 25 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling Stand will likely keep filling in as oak grows into gaps and wp fills in. Brown To Fresidual Sapling Sprouts growing in gaps. Mixed density and diameters of residual scanopy. Some areas with thicker pine poles and saplings. Goal was regenerate the aspen and to keep growing this into older aged pine. Stand will likely keep filling in as oak grows into gaps and wp fills in. 2002fmd:O5 adjacent stand to east typed as O6. May not be much different. 2011FMD: Mix of oak/pine/aspen logs age 75 with some olook/pine scattered around and and interesting amount of oak and wh	Bigtooth Aspen 1 Log/Pole 12 93 White F Red Oak 25 Log 12 93 White G Red Pine 28 Log 11 85 Red O White Pine 20 Log 12 Bigtooth A White Oak 25 Log 12 93 Red Ma	85 1-50	49.8 85	1-50	N/A		
Bigtooth Aspen 1 Log/Pole 12 93 White Pine Medium 10 - 20 feet Sapling Red Oak 25 Log 12 93 White Oak Medium 5 - 10 feet Sapling Red Pine 28 Log 11 85 Red Oak Low 5 - 10 feet Sapling White Pine 20 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Oak 25 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Oak 25 Log 12 Page Note Pine Pine Pine Pine Pine Pine Pine Pin	Red Oak 25 Log 12 93 White 0 Red Pine 28 Log 11 85 Red O White Pine 20 Log 12 Bigtooth A White Oak 25 Log 12 93 Red Ma	opy Species Density	ub-Canopy Specie	Density Avg. I	leight Size		
Red Pine 28 Log 11 85 Red Oak Low 5 - 10 feet Sapling White Pine 20 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling White Oak 25 Log 12 93 Red Maple Low 5 - 10 feet Sapling Oak/pine scattered around and and interesting amount of oak and wh	Red Pine 28 Log 11 85 Red O White Pine 20 Log 12 Bigtooth A White Oak 25 Log 12 93 Red Ma	e Pine Medium	White Pine	Medium 10 - 2	0 feet Sapling		
Red Pine 28 Log 11 85 Red Oak Low 5 - 10 feet Saping 2002fmd:O5 adjacent stand to east typed as O6. May not be much 20 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling 2011FMD: Mix of oak/pine/aspen logs age 75 with some of Oak/pine scattered around and and interesting amount of oak and wh	White Pine 20 Log 12 Bigtooth A White Oak 25 Log 12 93 Red Ma	te Oak Medium	White Oak	Medium 5 - 10) feet Sapling		
White Pine 20 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling different. 2011FMD: Mix of oak/pine/aspen logs age 75 with some of oak/pine oak/pine scattered around and and interesting amount of oak and wh	White Oak 25 Log 12 93 Red Ma	d Oak Low	Red Oak	Low 5 - 10) feet Sapling		
		th Aspen Medium	Bigtooth Aspen	Medium 5 - 10) feet Sapling		
	Red Maple 1 Pole/Sapling 6	Maple Low	Red Maple	Low 5 - 10) feet Sapling	oak/pine scattered around and and interesting amount of oak and white	
		- '			1		
White Pine 20 Log 12 Bigtooth Aspen Medium 5 - 10 feet Sapling different. 2011FMD: Mix of oak/ White Oak 25 Log 12 93 Red Maple Low 5 - 10 feet Sapling oak/pine scattered around and a	White Pine 20 Log 12 Bigtooth A White Oak 25 Log 12 93 Red Ma	opy Species Density te Pine Medium te Oak Medium	ub-Canopy Specie White Pine White Oak	Density Avg. I Medium 10 - 2 Medium 5 - 10	Height Size 0 feet Sapling 0 feet Sapling	maple and jp. Good aspen with sprouts growing in gaps. Mixed canopy. Some areas with thicke regenerate the aspen and to kee Stand will likely keep filling in as	
					1 3	different. 2011FMD: Mix of oak/pine/aspen logs age 75 with some older	
Red Maple 1 Pole/Sapling 6 but would likesly expand if harvested. Good bit of white pine regen -			· · · · · · · · · · · · · · · · · · ·			pine poles age 30?. Aspen is lightly stocked and scattered small clones but would likesly expand if harvested. Good bit of white pine regen -	

Traverse City Mgt. Unit



Stand	Level 4 C	over Type	:	Size Density	Acres Stand Age B	A Range	Managed S	ite	General Comments		
105	4310 - Pi	ne, Oak Mix	K Sa	wtimber Medium	68.0 102	51-80	N/A		2022: Mix of logs, Xlog, poles ,saplings. Canopy stocking is variable.		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	Understory may move to canopy next entry. Thick understory regeneration in most places. Let stand develop. Would cause too much		
	White Pine	20	Log	12	White Pine	Medium	Variable	Sapling	damage to understory to remove overstory. Looks like all pine was left in		
	Red Pine	28	Log	12 92	Aspen (spp.)	Medium	10 - 20 feet	Sapling	last treatment. Pockets of pine poles. 2002FMD: A3 2011FMD: 50 % canopy cover left from last sale consisting of red oak white p and red pine. Robust regeneration in canopy gaps of aspen/oaks/		
	White Oak	2	Log	14	White Oak	Medium	>20 feet	Sapling			
	Red Oak	50	Log	14 102	Red Oak	Low	>20 feet	Sapling	pine/jack pine/red maple. Little red pine regen. Removing any more		
		'			Jack Pine	Low	10 - 20 feet	Sapling	canopy at this time would cause excessive damage to the sub-canopy.		
					Red Maple	Medium	>20 feet	Sapling	Let stand develop.		
106	3102	- Grass		Nonstocked	1.0 U	nspecified	No		2022: Herbaceous opening. May be managed by WLD		
107	6229 - Mixed	d lowland sh	nrub	Nonstocked	9.0 U	nspecified	No		2022; low density trees with tag alder and cattails along drain.		
108	4191 - Mixed Upl	and Deciduo	ous with S	sawtimber Well	4.5 111	81-110	N/A		2022: LARGE OLDER OAK AND PINE WITH RM POLES AND SAPLINGS. OLDER ASPEN AND RED MAPLE ALONG DRAIN. LOWER AREA THROUGH EAST PART OF STAND.		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	LOWER AREA THROUGH EAST PART OF STAND.		
	Red Oak	26	XLog/Log	18 111	Red Maple	Medium	>20 feet	Sapling			
	Red Maple	24	Pole	8 76	White Pine	Low	5 - 10 feet	Sapling			
	Quaking Aspen	5	Log	13 76					-		
	White Oak	10	XLog/Log	18 111							
	White Pine	25	XLog/Log	18 111							
	Red Pine	10	Log	15 111							
109	4131 - A	Aspen, Oak	Pol	etimber Medium	16.5 28	51-80	N/A		2022: Some older oak logs with oak saplings/poles. Some well stocked		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	aspen clones but more red maple/oak/wp in mixed density. Let stand develop.		
	White Pine	10	Pole	6	Balsam Fir	Low	5 - 10 feet	Sapling	- 4070lop.		
	Paper Birch	5	Pole	6	Black Cherry	Low	< 5 feet	Sapling			
	Red Maple	15	Sapling/Pole	4 28	Red Maple	Medium	< 5 feet	Sapling			
	Quaking Aspen	45	Pole	6 28	White Pine	Low	5 - 10 feet	Sapling			
	Red Oak	10	Sapling/Pole	4 28	Oak (spp.)	Low	< 5 feet	Sapling			
	White Oak	10	Sapling/Pole	4 28		1			-		
	Balsam Fir	5	Sapling/Pole	4							
111	6223 - Inundat	ed Shrub S	wamp	Nonstocked	41.9 U	nspecified	No		Cattails and tag. Low density forested clumps of lowland species.		

Report 7 - Stands

Compartment: 54 Year of Entry: 2024



	Stand	Level 4 Cover Type	Size Density	Acres Stand Age BA Range	Managed Site	General Comments
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Balsam Fir

Tag Alder

Balsam Fir

Red Maple

42

112 6119 - Mixed Lowland Deciduous Forest Sawtimber Poor

 9.4
 65
 1-50
 N/A

 Sub-Canopy Species
 Density
 Avg. Height

Medium

Medium

5 - 10 feet

5 - 10 feet

5 - 10 feet

5 - 10 feet

N/A

Size

Sapling Tall Shrub

Sapling

Pole

2022: LOW STOCKED MIS WITH TAG ALDER ALONG SIDE OF DRAINAGE.

Canopy Species	% Cove	r Size Class	DBH	Age
Northern White Cedar	5	Log/Pole	12	
Quaking Aspen	35	Log/Pole	11	65
Paper Birch	15	Pole	9	
Black Ash	10	Pole	7	65
Northern Pin Oak	3	Log	12	
American Elm	2	Log/Pole	10	
White Oak	10	Log	12	
Red Maple	20	Log/Pole	11	65

113 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 49.5 121 111-140

 Sub-Canopy Species
 Density
 Avg. Height
 Size

 Hemlock
 Low
 5 - 10 feet
 Sapling

 White Pine
 Low
 5 - 10 feet
 Sapling

Medium

Low

2022: Drainage through stand and along south edge. Good bit of water. Blowdown areas. Did not note any cedar regen but a good bit of balsam and white pine. Basal area is variable. Some areas well stocked and drier.

Canopy Species S	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole	12	
Hemlock	10	Log/Pole	12	90
Yellow Birch	2	Log/Pole	12	
Quaking Aspen	10	Log	11	
Basswood	2	Log/Pole	14	
Black Spruce	5	Log/Pole	10	
Paper Birch	5	Log/Pole	10	
Tamarack	2	Log	12	
Bigtooth Aspen	10	Log/Pole	14	90
White Pine	2	Log/Pole	14	
Northern White Cedar	30	Log	13	121
Balsam Fir	7	Log/Pole	10	

114 4134 - Aspen,	Spruce	e/Fir	Poletimb	er Wel	l 59.3
Canopy Species %	% Cove	r Size Class	DBH	Age	Sub-C
Balsam Fir	20	Pole	7		Bla
Quaking Aspen	59	Pole	8	42	R
White Pine	2	Log	12	97	В
Black Cherry	3	Pole	8		V
Red Maple	10	Pole	9		
White Oak	2	Log	14	97	
Northern Pin Oak	2	Log	14		
Paper Birch	2	Log/Pole	12		

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

81-110

2022: Some areas heavier to aspen and other areas have rm and balsam poles growing through. Could harvest to regenerate all or part if access possible. Could hold till next entry. 2002FMD:Stand origin 1976-1982-horse trail influence-O7R7W7 Stand nearing A6 2011FMD: This is a large area of 32 yr old aspen. May want to look at re-starting part of it for age class distribution. Aspen is mixed diameter from small poles to small logs depending on competition. Some wet areas.



Stand		over Type		Size Dei	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
115	6132 - Mixed Lowla	and Forest	with Cedar	Sawtimbe	er Well	11.0	116	81-110	N/A		2022: Drier than surrounding stands but drainage through stand and tag
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	alder pockets. Light blowdown. 2002FMD: C6 2011FMD; Mixed size cedar with QA RM WB BF Tag Alder
	Red Maple	10	Log/Pole	10	100	Ва	lsam Fir	Medium	10 - 20 feet	Sapling	oodal man diritan waa ah raginada
	Paper Birch	20	Log/Pole	10		Ta	ng Alder	Medium	5 - 10 feet	Tall Shrub	
	Tamarack	2	Log/Pole	12		Wh	nite Pine	Low	5 - 10 feet	Sapling	
	Quaking Aspen	10	Log	15	100			-	1		
	Bigtooth Aspen	2	Log/Pole	10	100						
	Balsam Fir	15	Pole	8							
Noi	thern White Cedar	41	Log/Pole	10	116						
116	4131 - A	spen, Oak		Poletimbe	er Well	133.6	44	81-110	N/A		2022: stand has transition areas with lower pockets and edges and
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	drainage through. Strip of older aspen left in middle of stand along the road. Scattered larger oak pine and maple. All or part of stand could be
	Bigtooth Aspen	15	Pole	9	44	Blad	ck Cherry	Low	< 5 feet	Seeding	harvested. Potential to create retention pockets and scattered retention
	White Oak	15	Log/Pole	14	97	Ва	lsam Fir	Low	Variable	Sapling	Access would have to be from private?
	Paper Birch	2	Log/Pole	10		Wh	nite Pine	Low	Variable	Sapling	
	Red Oak	10	Log	16		Re	d Maple	Low	5 - 10 feet	Sapling	
	Basswood	2	Log	12		H	emlock	Low	5 - 10 feet	Sapling	
	Quaking Aspen	25	Pole	8	44						
	Red Maple	20	Pole	8							
	White Pine	3	Log	14							
	Balsam Fir	5	Pole	8	44						
	Black Cherry	3	Pole	8							
117	3202 - Autumn (Olive/Hone	ysuckle	Nonsto	cked	2.6	ι	Jnspecified	No		Old well pad, plugged 8/18/85.
118	4124 - Red v	with White	Oak	Sawtimbe		23.8	102	81-110	N/A		2022: Low quality oak logs with wp growing through. Some rp poles. Could take most oak off and try to protect pine understory. Would likely
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	fill in with oak sprouts and white pine. Could also let stand develop and
	Red Maple	10	Pole/Saplin	g 6		Wh	nite Pine	Medium	10 - 20 feet	Sapling	allow pine to grow through without disturbance. FMD 2002: O5O7A4
	White Oak	35	Log	13	102	Re	ed Pine	Low	10 - 20 feet	Sapling	DELAYED FOR SIZE/AGE DIVERSITY. PART OF THIS O/I STAND IS
	Red Oak	45	Log	15	102	WI	nite Oak	Low	5 - 10 feet	Sapling	NOW PART OF STAND 73 2011FMD; PRETTY CONSTANT WHITE PINE UNDERSTORY 10-20' TALL IN AREAS. OTHER AREAS HAVE
	Bigtooth Aspen	5	Log	12	85	Re	d Maple	Low	10 - 20 feet	Sapling	PRETTY OPEN UNDERSWTORY. COULD CUT AND REPLANT PINE
	Red Pine	5	Log/Pole	12	85	R	ed Oak	Low	5 - 10 feet	Sapling	AT SOME POINT BUT NOT NECESSARY AT THIS POINT. MIXED
											OAK NOT VERY INTERESTING OR MUCH QUALITY. SOME RED PINE POLES AND LOGS SCATTERED ABOUT. COULD CUT TO RELEASE ADVANCED PINE UNDERSTORY AND SPROUT SOME

OAK BUT ALRIGHT FOR NOW. RETAIN FOR AGE DIVERSITY.



Stand	Level 4 Co	over Type	:	Size Density		Acres Stand A	lge BA Range	Managed	l Site	General Comments
119	6116 - Lo	wland Bircl	h S	Sapling	Medium	8.6 28	1-50	N//	Α	2022: Stand filling in with new saplings and poles.
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Canopy Sp	ecies Densit	y Avg. Height	Size	
	American Elm	5	Sapling/Pole	3		Tag Alder	Mediu	m 10 - 20 feet	Tall Shrul	
	Red Maple	10	Sapling	3		Northern White C	edar Low	5 - 10 feet	Sapling	
	Paper Birch	65	Sapling	4	28		·			_
(Quaking Aspen	10	Sapling	4						
Nort	thern White Cedar	10	Log/Pole	12	99					
120	4199 - Other Mixed	d Upland D	eciduous S	Sawtiml	er Well	11.1 82	111-140	N/A	Ą	2022: Old aspen with oak and red maple. Rm poles growing through as
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Canopy Sp	ecies Densit	y Avg. Height	Size	aspen falls out. Red maple looks good. 2002FMD: A6 Adjacent landowner denies access. 2011fmd: Over aged aspen mixed with oak.
	Beech	1	Log	13		Red Maple	Low	5 - 10 feet	Sapling	Small brushy vernal pond in south end of stand. A little basswood and
	White Oak	35	Log	15	82	Balsam Fir	Mediu	m 5 - 10 feet	Sapling	white ash on edge of stand.
(Quaking Aspen	31	Log	15	82					
	Basswood	1	Log	12						
	White Pine	2	Log/Pole	10						
	Red Maple	20	Log/Pole	10						
N	orthern Pin Oak	10	Log	14						
121	6118 - Lowland De	eciduous w	rith Cedar S	Sawtimb	er Poor	10.1 99	1-50	N//	4	2022: Impossible to traverse in west end due to heavy blowdown. A little
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Canopy Sp	ecies Densit	y Avg. Height	Size	cedar and aspen standing. Some aspen and birch saplings. Trail cut in through slash in SW end. Some areas of stand do not have such heavy
(Quaking Aspen	40	Log	15	99	Red Maple	Low	10 - 20 feet	Sapling	damage but still some bad areas. 2002FMD: Beaver flooding damage.
Nort	thern White Cedar	35	Log	12	135	Tag Alder	Low	5 - 10 feet	Tall Shrub	Standing dead cedar and maple. 2011FMD: Blowdown but not as much
	Paper Birch	15	Pole	8	45	Balsam Fir	Low	5 - 10 feet	Sapling	as surrounding stands. Old aspen red maple cedar and a little ash.
	Red Maple	10	Log	12		Northern White C	edar Low	5 - 10 feet	Sapling	
						Paper Birch	Mediu	m 5 - 10 feet	Sapling	
122	4319 - Mixed	Upland Fo	orest S	Sawtiml	er Well	6.7 99	141-170	N//	A	2022: Large old aspen with balsam and red maple growing through.
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Canopy Sp	ecies Densit	y Avg. Height	Size	2011FMD: Half Way Dry. A little higher ground. Fir with older aspen birch and cedar. Fir filling in pockets.
	Balsam Fir	20	Pole	8	65	Balsam Fir	Mediu	m 5 - 10 feet	Sapling	
(Quaking Aspen	35	Log	16	99	Red Maple	Mediu	m 5 - 10 feet	Sapling	
Nort	thern White Cedar	30	Log	12	130					
	Red Maple	5	Log	12						
	Paper Birch	10	Log	12	99					

DNR MICHIGAN

Stand Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
123 6119 - Mixed Lowla	and Decidud	ous Forest F	Poletimb	er Poor	13.8	40	51-80	N/A		2022: Wet areas with cattails and tag alder. Pole and sapling sized
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	aspen, birch maple, balsam growing in. Some areas with higher water and heavy wind throw. 2002: FMD: C4E4L Heavy to pine NW Corner
Northern White Cedar	5	Log/Pole	12	99	Ta	ag Alder	Medium	10 - 20 feet	Tall Shrub	Heavy wind throw High water 2011FMD: Lowland hardwood with a lot of
American Elm	15	Pole/Sapling	6		Ва	alsam Fir	Low	5 - 10 feet	Sapling	blowdown. Some older cedar and aspen left but most is blown down in
Paper Birch	15	Pole	6	40					,	past and replaced by pole/sap stand.
Balsam Fir	10	Pole/Log	8							
Quaking Aspen	30	Pole	8	40						
Red Maple	25	Pole	6	40						
125 4131 - A	Aspen, Oak	5	Sawtimb	er Well	5.9	65	81-110	N/A		2022: Aspen is mature and could be harvested. Makes good diversity
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	with younger age surrounding. 2012: Stand nearing A6 2011FMD: Looks like a hump that was cut around when stand 84 was cut. Aspen is
White Oak	25	Log	12	95	Ва	alsam Fir	Low	5 - 10 feet	Sapling	older estimated around 55 yr. Brushy pond in stand. May want to keep
Red Oak	15	Log	12		Re	ed Maple	Low	5 - 10 feet	Sapling	for budding cover and diversity. Could be cut if accessable.
White Pine	2	Log	14	97						
Quaking Aspen	40	Log	12	65						
Red Maple	10	Log	12	65						
Beech	8	Log	14							
126 4310 - Pi	ne, Oak Mix	× 5	Sawtimb	er Well	55.0	116	81-110	N/A		2022: Mixed sizes with Low quality oak mix with rp and wp. Pine looks
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	fine on site but red pine looks stunted after good growth. Thickets of wr under with substantial snow damage Could take off most oak to allow
Red Oak	15	Log	16		R	ed Pine	Low	5 - 10 feet	Sapling	pine to occupy site. Could thin pine pockets or cut back to shelter-wood
White Oak	25	Log	14		Re	ed Maple	Low	10 - 20 feet	Sapling	or seed tree. Harvest wood be messy with all the snow damaged understory Could treat with stand 118 to east which is similar but with
Bigtooth Aspen	5	Log	12		W	hite Pine	High	5 - 10 feet	Sapling	less pine overstory. 2012 FMD: East side was O/I stand 24 R9. Age
White Pine	25	Log/Pole	16	116						106. Retention of stand for regeneration purposes (shelter wood) Red
Red Pine	30	Log	14	116						pine grew well until age 60-70 then grew stagnant. Red pine poles and saps grew in to understory and a good bit of white pine (5-10" tall) This
										stand could potentially be managed toward big old pine and oak. Could shelter wood harvest sometime to return to pine stand. Mix of RP/WP/Oak/BTAspen.
127 6132 - Mixed Lowla	and Forest	with Cedar S			33.2	98	1-50	N/A		2022: Most is standing dead with cattails. Areas with birch and balsam if ir saplings and poles.
Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	in sapings and poics.
Black Ash	10	Pole/Sapling				ck Cherry	Low	< 5 feet	Sapling	
Red Maple	20	Log/Pole	12		Ta	ag Alder	Low	10 - 20 feet	Tall Shrub	
Northern White Cedar	30	Log/Pole	10	98						
Balsam Fir	15	Pole/Log	8	46						
Paper Birch	25	Log/Pole	11	98						



Stand Level 4 (Cover Type	!	Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
128 6120 - Lo	owland Ceda	ar S	awtimb	er Well	12.3	135	1-50	N/A		2022: Large amount of dead standing. A little cedar, birch and fir left
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	alive. Most is cattails and Frag. Some pockets have better stocking.
Northern White Cedar	50	Log/Pole	12	135	Balsa	am Poplar	Low	5 - 10 feet	Sapling	
Balsam Fir	20	Log/Pole	10		Re	d Maple	Low	10 - 20 feet	Sapling	
Quaking Aspen	10	Log	14	99	Ва	lsam Fir	Low	5 - 10 feet	Sapling	
Red Maple	5	Log	14	99						
Paper Birch	15	Pole	8							
129 6118 - Lowland [Deciduous w	ith Cedar S	awtimb	er Poor	24.1	130	1-50	N/A		2022: Low stocked birch and fir with cattails. Moderately wet. Some
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	older aspen left.
Red Maple	20	Log/Pole	12	99	Red Os	ier Dogwood	Medium	5 - 10 feet	Tall Shrub	
Paper Birch	20	Log/Pole	12		Ва	lsam Fir	Low	5 - 10 feet	Sapling	
Balsam Fir	20	Pole/Log	9		Ta	ıg Alder	Medium	10 - 20 feet	Tall Shrub	
Quaking Aspen	20	Pole	9							
Northern White Cedar	20	Log	12	130						
			and in a	ar \\/all	E0 0	106	111 110	NI/A		2022. Come storm demand in areas but generally in depart condition
130 6132 - Mixed Low Canopy Species		Size Class		er Well I Age	58.9 Sub-Ca	106 nopy Species	111-140 Density	N/A Avg. Height	Size	2022: Some storm damage in areas but generally in decent condition Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
					Sub-Ca				Size Sapling	
Canopy Species	% Cover	Size Class	DBH		Sub-Ca Re	nopy Species	Density	Avg. Height	1	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
Canopy Species Red Maple	% Cover	Size Class Log	DB F		Sub-Ca Re	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
Canopy Species Red Maple Red Pine	% Cover 15 2	Size Class Log Log/Pole	16 16		Sub-Ca Re	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
Canopy Species Red Maple Red Pine Yellow Birch	% Cover 15 2 2	Size Class Log Log/Pole Log/Pole	16 16 14	Age	Sub-Ca Re	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
Canopy Species Red Maple Red Pine Yellow Birch Hemlock	% Cover 15 2 2 18 3 5	Size Class Log Log/Pole Log/Pole Log	16 16 14 14 16 10	106	Sub-Ca Re	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen	% Cover 15 2 2 18 3 5 15	Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log	DBH 16 16 14 14 16 16 10 15	106	Sub-Ca Re	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen White Pine	% Cover 15 2 2 18 3 5 15	Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole	DBH 16 16 14 14 16 10 15	106 106	Sub-Ca Re	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen White Pine Northern White Cedar	% Cover 15 2 2 18 3 5 15 10 27	Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log XLog/Log Log	16 16 14 14 16 10 15 18 13	106	Sub-Ca Re	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen White Pine	% Cover 15 2 2 18 3 5 15	Log Log/Pole Log/Pole Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log	DBH 16 16 14 14 16 10 15	106 106	Sub-Ca Re	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen White Pine Northern White Cedar White Oak	% Cover 15 2 2 18 3 5 15 10 27	Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log XLog/Log Log Log/Pole	DBH 16 16 14 14 16 10 15 18 13	106 106	Sub-Ca Re	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge species along drainage. Variable. Heavy cedar in spots. 2022: Good growth and stocking in most areas. Merged this multi-part
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen White Pine Northern White Cedar White Oak 131 4130 Canopy Species	% Cover 15 2 2 18 3 5 15 10 27 3 0 - Aspen	Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log XLog/Log Log Log/Pole	16 16 14 14 16 10 15 18 13 16 Oletimb	106 106	Sub-Ca Re Ba	nopy Species d Maple Isam Fir	Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge species along drainage. Variable. Heavy cedar in spots.
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen White Pine Northern White Cedar White Oak 131 4130 Canopy Species Bigtooth Aspen	% Cover 15 2 2 18 3 5 15 10 27 3 0 - Aspen % Cover	Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log XLog/Log Log Log/Pole Size Class	16 16 14 16 10 15 18 13 16 DBH 6	106 106 106 er Well	Sub-Ca Re Ba	nopy Species d Maple lsam Fir	Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge species along drainage. Variable. Heavy cedar in spots. 2022: Good growth and stocking in most areas. Merged this multi-part
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen White Pine Northern White Cedar White Oak 131 4130 Canopy Species	% Cover 15 2 18 3 5 15 10 27 3 0 - Aspen	Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log XLog/Log Log Size Class Pole Log/Pole	16 16 14 14 16 10 15 18 13 16 Oletimb	106 106 106 er Well	Sub-Ca Re Ba	nopy Species d Maple lsam Fir 24 nopy Species	Density Low Low 51-80 Density	Avg. Height 10 - 20 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge species along drainage. Variable. Heavy cedar in spots. 2022: Good growth and stocking in most areas. Merged this multi-part
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen White Pine Northern White Cedar White Oak Canopy Species Bigtooth Aspen White Pine Red Maple	% Cover 15 2 2 18 3 5 15 10 27 3 0 - Aspen 81 11 4	Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log XLog/Log Log Log/Pole Size Class	DBH 16 16 14 14 16 10 15 18 13 16 oletimb DBH 6 10 4	106 106 106 er Well	Sub-Ca Re Ba	nopy Species d Maple lsam Fir 24 nopy Species	Density Low Low 51-80 Density	Avg. Height 10 - 20 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge species along drainage. Variable. Heavy cedar in spots. 2022: Good growth and stocking in most areas. Merged this multi-part
Canopy Species Red Maple Red Pine Yellow Birch Hemlock Red Oak Paper Birch Bigtooth Aspen White Pine Northern White Cedar White Oak Canopy Species Bigtooth Aspen White Pine	% Cover 15 2 2 18 3 5 15 10 27 3 0 - Aspen 81 11	Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log XLog/Log Log Size Class Pole Log/Pole	16 16 14 14 16 10 15 18 13 16 DBH 6 10	106 106 106 er Well Age 24 75	Sub-Ca Re Ba	nopy Species d Maple lsam Fir 24 nopy Species	Density Low Low 51-80 Density	Avg. Height 10 - 20 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling	Nice lowland mix along drain. 2002FMD: C6 Good mix of lowland/edge species along drainage. Variable. Heavy cedar in spots. 2022: Good growth and stocking in most areas. Merged this multi-part



Stan		over Type	Size Density		Acres Stand Age BA Range		Managed S	Site	General Comments	
132	6118 - Lowland De	eciduous w	ith Cedar Sa	awtimb	er Mediu	n 14.4 75	81-110	N/A		2022: Fairly dry at this time. Some blowdown but better than most in area. Areas with red maple poles and sapling growing through. Aspen
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Canopy Sp	ecies Density	Avg. Height	Size	declining.
	Paper Birch	15	Log/Pole	11		Balsam Fir	Medium	5 - 10 feet	Sapling	3
	Quaking Aspen	31	Log	14	75	Red Maple	Low	5 - 10 feet	Sapling	
No	orthern White Cedar	29	Log	12	130					
	Black Cherry	5	Pole/Sapling	g 8						
	Red Maple	20	Log	12						
133	4199 - Other Mixed	d Upland D	eciduous	Sawtim	ber Well	27.9 93	51-80	N/A		2022: Low quality oak logs with aspen and wp poles and saplings
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Canopy Spe	ecies Density	Avg. Height	Size	growing through. Aspen is scattered in stand. Some wp poles getting to canopy. A little red pine. RM sprouts 6-8" dbh. Could green mark some
	White Oak	35	Log	12	93	White Pine	Medium	10 - 20 feet	Sapling	better oak and take most oak, aspen and larger pine. Would be messy
	Red Oak	20	Log	12	!	Red Maple	Low	10 - 20 feet	Sapling	with the wp under. Much of it is already snow damaged. New motorcycle
	White Pine	10	Log	12	93	Red Pine	Low	5 - 10 feet	Sapling	trail in stand.
	Quaking Aspen	5	Log	11						
	Red Pine	5	Log	12	93					
	Bigtooth Aspen	15	Log	12	80					
	Red Maple	10	Pole	8						
134	42330 -	Upland Fir	ı	Poletim	ber Well	6.3 52	111-140	N/A		2022: Wet transition area. Aspen not harvested with adjacent stand.
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Canopy Sp	ecies Density	Avg. Height	Size	2012: FMD: P4C4E7E4 2011FMD: Partially dry site but wet areas.
	Hemlock	5	Log	12		Red Maple	Low	5 - 10 feet	Sapling	
	Red Maple	5	Log	14		Balsam Fir	Low	5 - 10 feet	Sapling	
	Quaking Aspen	15	Log/Pole	11	71					
	Balsam Fir	63	Pole	8	52					
No	orthern White Cedar	10	Log	12	115					
	Beech	2	Log/Pole	11						
135	6117 - Lowland I Coni	Deciduous, ferous	Mixed	Sawtim	ber Well	9.9 85	141-170	N/A		2022: Drain with mixed ages and diameters. Red Maple poles filling gaps. East end is wetter with mortality and tag alder and cattails. Blow
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Canopy Sp	ecies Density	Avg. Height	Size	down areas in stand but heavier in east end.
	Basswood	2	Log	16		Balsam Fir	Low	5 - 10 feet	Log	
	Red Oak	10	Log	14		White Pine	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	20	Log	14	85	Red Maple	Low	10 - 20 feet	Sapling	
	Red Maple	20	Log	12	85	Paper Birch	Low	5 - 10 feet	Sapling	
	White Oak	3	Log	12						_
	White Pine	5	Log	12	!					
		4.5	Las/Dala							
No	orthern White Cedar	15	Log/Pole	11	120					
No	Paper Birch	5	Log	11						



Stand	Level 4 Co	over Type	;	Size De	ensity	Acres	Stand Age B	A Range	Managed 9	Site	General Comments
136	6120 - Lov	vland Ceda	ar S	Sawtimb	er Well	30.8	126	201+	N/A		2022: Stand is in decent shape. some storm damaged areas. Some
(anopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	areas heavy to cedar while others have heavier red maple.
	Hemlock	7	Log/Pole	10		Ta	g Alder	Low	< 5 feet	Tall Shrub	
	Paper Birch	5	Log/Pole	10		Bal	sam Fir	Medium	5 - 10 feet	Sapling	
	Balsam Fir	6	Pole/Sapling	8							
I	Black Spruce	5	Pole/Sapling	8							
North	ern White Cedar	60	Log/Pole	12	126						
	Tamarack	2	Log/Pole	10							
	White Pine	5	XLog/Log	18	126						
	Red Maple	5	Pole/Sapling	8							
	Black Ash	5	Pole/Sapling	8							
137	6128 - Lowland (Deci	Coniferous, duous	Mixed S	awtimb	er Poor	24.2	107	1-50	N/A		Heavy blowdown in stand but a good bit of regeneration forming including cedar. Some flooded areas with die back and wood ducks.
C	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
Q	uaking Aspen	10	Log/Pole	14	107	He	emlock	Low	5 - 10 feet	Sapling	
	Balsam Fir	15	Pole	8	45	Ta	g Alder	Low	5 - 10 feet	Tall Shrub	
North	ern White Cedar	40	Log	12	107	Bal	sam Fir	Low	Variable	Sapling	
	Paper Birch	10	Log/Pole	10	45	Northern	White Cedar	Low	5 - 10 feet	Sapling	
	Red Maple	20	Log	12	107	Wh	ite Pine	Low	5 - 10 feet	Sapling	
	Hemlock	5	Log/Pole	10							-
138	4130	- Aspen	S	Sawtimb	er Well	7.8	99	111-140	N/A		2022: Aspen falling out. Would likely regenerate well if harvested.
(anopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Access through private?
	Paper Birch	10	Log/Pole	12		Bal	sam Fir	Low	5 - 10 feet	Sapling	
В	igtooth Aspen	78	Log	14	99	Red	d Maple	Low	5 - 10 feet	Sapling	
North	ern White Cedar	2	Log	13					ı		
	Red Maple	10	Log	13	99						
139	4191 - Mixed Upla Co	and Decidu	ous with S		er Well	11.7	100	81-110	N/A		2022: Larger wolfy oak with red pine. Red pine looks good. Consider cutting and re-planting. Thinning would not be a good consideration due to the size and quality of the oak. This stand and stands 89 a and 200
(anopy Species	% Cover	Size Class		l Age		nopy Species	Density	Avg. Height	Size	were connected prior to this inventory. 2011FMD; OAK LOGS AND
R	igtooth Aspen	3	Log	12	85	Wh	ite Pine	Low	Variable	Sapling	POLES WITH INTERPLANTED RED PINE. A good bit of the red pine is
	greenin					100				0 "	suppressed but it grew pretty well where it had room =less oak/more red
	Red Oak	22	XLog/Log	18	100		ite Oak	Medium	< 5 feet	Seeding	
	<u> </u>	22	XLog/Log Log	18 14	100		ed Oak	Medium Low	< 5 feet	Seeding	pine. Consider thinning stand to bring along better oak and pine or
	Red Oak				85					U	



Stand		over Type		Size Density		Acres Stan	Acres Stand Age BA Range		Managed S	ite	General Comments		
141	4191 - Mixed Upla Co	and Decidud onifer	ous with	Sawtimb	er Well	23.5 1	16	81-110	N/A		2022: Lower quality oak with pine and aspen. Advanced pine understo		
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	growing through. Some near or at canopy level. May be best to let the aspen fall out and allow pine understory to grow in without disturbance.		
	Red Oak	25	Log	14	116	Red Map	ole	Low	>20 feet	Sapling	2011FMD: Split off from PI Stand # 99. More oak and aspen and less		
	White Oak	30	Log	14	116	Red Pin	ne	Low	10 - 20 feet	Sapling	rp/wp in this stand. However, there is a lot of white pine understory.		
Е	ligtooth Aspen	20	Log	13	90	White O	ak	Low	5 - 10 feet	Sapling	Aspen should get out. Would release understory pine in places. May able to get aspen and poor quality oak out and It those regenerate		
	Red Pine	10	Log	13	116	White Pi	ne	Medium	>20 feet	Sapling	through oak canopy.		
142	730 - N	Mud Flats		Nonst	cked	20.0	U	nspecified	No		2022: Pretty wet cattail and such.		
43	4310 - Pi	ne, Oak Mix	(Sawtimb	er Well	16.8 1 ⁻	12	81-110	N/A		2022: Pine with low quality oak mix. Red and white pine likely planted		
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	with natural oak. Some areas with pockets of vigorous wp poles and saplings with some red pine. Most of the understory is whippy snow		
	White Pine	25	Log/Pole	14	112	Red Map	ole	Low	5 - 10 feet	Sapling	damaged wp. A small amount of mature aspen but not enough to dire		
	Red Pine	20	Log	12	112	Red Pin	ne	Low	10 - 20 feet	Sapling	stand management. This could be harvested and replanted. Would likely cause a lot of damage to understory if canopy was opened up to		
	Red Oak	15	Log	14		White Pi	ne	Medium	10 - 20 feet	Sapling	release under. 2011FMD: Big pine look to stand. Aspen has mixed a		
	Red Maple	10	Pole	8	50						clones. Some was cut around 40? yr, age. Some older 70-80 yr clone		
E	Sigtooth Aspen	10	Pole	8	50						Let stand develop until aspen matures. Stand to east was recently treated.		
	White Oak	20	Log	14							ireated.		
144	4191 - Mixed Upla Co	and Decidud onifer	ous with	Sawtimb	er Well	8.3 7	75	51-80	N/A		2022: Stocking is generally low. Some lower pockets with balsam, hemlock and cedar. Aspen is declining. Likely not enough volume to		
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	warrant treatment and access would be difficult. May convert to red maple and white pine as aspen falls out. Look at options to access an		
(Quaking Aspen	20	Log	13	75	Red Map	ole	Low	5 - 10 feet	Sapling	set up small treatment. 2002FMD: p6 Delayed treatment for age		
	Balsam Fir	2	Pole/Sapling	g 6		Balsam I	Fir	Low	5 - 10 feet	Sapling	diversity 2011FMD: Mixed red maple/aspen/white pine with a little		
	White Pine	23	Log	11	75	White Pi	ne	Low	5 - 10 feet	Sapling	oak/fir/birch. Starting to decline. Some of the aspen looks to be from older age class. This stand should be regenerated soon if access is		
	Red Pine	2	Log/Pole	12							possible but wait for now for adjacent stand to develop. There is a large		
	Red Oak	8	Log	12							area of early succession aspen to the west.		
	White Oak	5	Pole	8									
	Paper Birch	5	Log/Pole	10									

Report 7 – Stands



Compartment: 54 Year of Entry: 2024

Stand	Stand Level 4 Cover Type			Size De	nsity	Acres Stand Age B	A Range	Managed S	General Comments			
146	4199 - Other Mixe	d Upland [Deciduous	Sawtimb	er Well	6.7 90	51-80	N/A		2022: Could harvest to regenerate if access can be attained. Bridge on snowmobile trail on east side would need improved? Could green mark		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	some oak and pine retention and cut aspen and rm. Beaver trying to		
	White Pine	10	Log/Pole	14	116	White Pine	Low	5 - 10 feet	Sapling	make a go of it. 2011FMD: Big red pine, white pine and big tooth aspen		
	Red Pine	5	Log/Pole	14	116					with red maple and pine poles. point of land between creeks. If accessible, consider getting aspen out and regenerating it through some		
	Bigtooth Aspen	35	Log	16	90					of the big pine and oak.		
	Paper Birch	5	Log/Pole	10	90					.		
	Red Oak	10	Log/Pole	14	116							
	White Oak	10	Log/Pole	14	116							
	Red Maple	25	Log	12								
147	6119 - Mixed Lowla	and Decidu	ous Forest	Sawtimb	er Well	13.1 88	51-80	N/A		Low stand with seeps and drains . Spongy ground, leave be. New		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	motorcycle train in NE. PB and aspen declining in stand. 2002 fmd: P5 Delayed treatment for age/size class diversity. Was two islands of P type		
	Paper Birch	15	Log/Pole	10	88	Red Maple	Low	5 - 10 feet	Sapling	with cedar strip splitting them. 2011FMD. Split O/I stand in to two		
No	rthern White Cedar	10	Log	12		White Pine	Low	5 - 10 feet	Sapling	stands. This stands is wetter ground with a good bit of seepage out of		
	Quaking Aspen	20	Log	14	88					the ground. Not really low land but pretty seepy wet higher ground and wet lower ground. A little cedar along edge of creek. This stand is likely		
	Red Maple	25	Log	12	88					hard to access due to creek and seeps.		
	Basswood	20	Log	14	88							
	White Oak	5	Log/Pole	10								
	Red Oak	5	Pole/Log	9	88							
148	31021 - Cool 42210 - Nat			Nonsto Sawtimb			nspecified 111-140	Managed Op	pening	Managed opening with clumps of WP Planted fruit trees . Crabapple? 2021: Nice red pine. Good height and diameter growth. Stocking is not		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	too high but pine is getting large. Could cut and plant but small stand. Aspen might be trouble. Could do alight thinning but small volume.		
	Red Oak	10	Log/Pole	14	116	White Pine	Medium	5 - 10 feet	Sapling	Could hold. Pole potential. Mixed with wp and decent quality oak. Wp		
	Red Maple	5	Pole/Saplin	g 8		Red Maple	Low	>20 feet	Sapling	saplings filling gaps with rm and aspen from last treatment. Motorcycle		
	Red Pine	60	Log/Pole	14	116	Bigtooth Aspen	Low	>20 feet	Sapling	and snowmobile trail. 2002FMD: Delayed treatment for age/size diversity. R9 TS#037-95. TCR 11/96. Cut all orange marked, aspen. rm.		
	White Oak	5	Log/Pole	14	116			I		Sold aspen rp wp oak mix hwd jp. 2011FMD: Cut back to better pine and		
	White Pine	20	Log/Pole	14	116					oak stems in last treatment with residual Basal area 100-130. White pine		
l										in understory has not developed much more than what is found in surrounding stands that have full canopy. Part of stand along rye field is planted white pine age 50-70 estimate. Let this stand grow for now. Basal area is not too high.		
150	42290 - Natu	ıral Mixed	Pine S	awtimber	Mediur	n 18.7 116	111-140	N/A		2022: Nice pine with lower quality oak This could be harvested and		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	planted with difficulty due to the amount of advanced oak and wp regen or opened up to let understory oak and white pine advance. This could		
	Red Maple	2	Pole/Saplin			White Pine	Medium	10 - 20 feet	Seeding	hold until next entry but may be more difficult to keep in red pine as		
	Red Oak	5	Pole/Log	9		White Oak	Low	5 - 10 feet	Sapling	understory advances. Fair amount of wp saplings and wo seedlings		
	White Pine	28	Log	14	116	Red Oak	Low	5 - 10 feet	Sapling	filling gaps. New motorcycle trail built. Could be treated with stand to west.		
	White Oak	10	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling	WCSt.		
	Red Pine	52	Log	14	116	•			. 0			

Quaking Aspen

3

Log/Pole

10



Stand	Level 4 C	Level 4 Cover Type			Size Density		Stand Age	BA Range	Managed \$	Site	General Comments	
151	3102	- Grass		Nonsto	ocked	1.3	ι	Jnspecified	No		2022: Grass with clumps of wp log trees and wp seedlings.	
152	6117 - Lowland Con	Deciduous iiferous	, Mixed Sa	awtimber	r Mediun	n 5.5	43	51-80	N/A		2022: Lowland mix on slightly higher ground. Low stocking and quality. A few old apple trees.	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Balsam Poplar	10	Pole	6	43		nite Pine	Low	< 5 feet	Sapling		
	Paper Birch	10	Log/Pole	10								
	Black Cherry	10	Pole	6								
	Tamarack	20	Log	14	86							
(Quaking Aspen	20	Log/Pole	11	43							
	Red Maple	30	Pole	6	43							
153	42110 - Pla	inted Red P	rine	Sapling I	Medium	19.5	10	51-80	N/A		2022: Good growth on planted red pine. Row spacing and stocking in rows is variable. 2011: Site harvested 2010 and trenched 2011to be re-	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	planted in spring 2012 if trees available. Regen survey 2017. 650-700	
	Red Pine	70	Sapling	3	10	Black	Raspberry	Low	< 5 feet	Tall Shruk	TPA rp. Heavy cherry competition and lesser competition from jp.	
	Black Cherry	18	Sapling	2	10						Called fully stocked. Stand aerial herbicide to control cherry. This stand	
	Jack Pine	10	Sapling	3	10						has been updated from a field evaluation for a project on free to grow red	
	White Pine	2	Sapling	2								
154	42140 - Plar	nted Mixed	Pine	Sapling	g Well	20.5	27	81-110	N/A		2022: Strips have variable red pine stocking. Some areas have heavier	
	Canopy Species	% Cover	Size Class	DBH	l Age						stocking of of jp with bc, oak, rm. Jp is suppressing rp in some areas. May be able to row thin next entry period.	
	Red Maple	5	Sapling	3							may 20 and to 1011 am now only ponds.	
	Red Oak	2	Sapling	3								
	Jack Pine	36	Pole/Sapling	g 6	27							
	Black Cherry	5	Sapling/Pole	e 4								
	White Oak	2	Sapling	3								
	Red Pine	50	Pole/Sapling	g 5	27							
155	42201 - Natural Dec	White Pine	, Mixed	Sawtimb	er Well	8.1	126	111-140	N/A		2022: Mix of XL L, and pole wp with RM logs and poles. Let stand grow in. Not very interesting. Good for diversity.	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Red Maple	10	Pole	8		WI	nite Pine	Low	Variable	Sapling		
	Red Oak	5	Pole	9		I	Beech	Low	5 - 10 feet	Sapling		
	White Oak	5	Pole	9	50	Ва	lsam Fir	Low	Variable	Sapling		
(Quaking Aspen	8	Pole/Sapling	g 8	50	Re	d Maple	Low	10 - 20 feet	Sapling		
	Black Cherry	2	Pole/Sapling	g 8							_	
	White Pine	70	Log/XLog/Po		126							

Year of Entry: 2024

Compartment: 54

Stand	Level 4 C	Level 4 Cover Type			Size Density		Acres Stand Age BA Rang		Managed S	Site	General Comments	
156	6120 - Lov	wland Ceda	r s	Sawtimb	er Well	10.7	134	141-170	N/A		2022: Nice lowland mix. Stand looks fine. Light blowdown in area	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	surveyed. 2004FMD: C6 20121FMD: Northern strip of this stand is transition between upland and lowland species. The rest is cedar	
	Hemlock	10	Log/Pole	12		W	hite Pine	Low	5 - 10 feet	Sapling	lowland mix. Scattered old red maple and white pine. Some 50 yr old	
	White Pine	5	Log/XLog	16	134	Ва	alsam Fir	Low	5 - 10 feet	Sapling	class RM BF WP Aspen. A lot of damage on balsam fir from the heavy	
	Red Maple	10	Log	14	100						∃ snow (March 2012).	
Nor	thern White Cedar	50	Log	12	134							
	Bigtooth Aspen	10	Log	12	100							
	Paper Birch	5	Pole	8								
	Balsam Fir	10	Pole/Log	9								
157	4130	- Aspen	Ş	Sawtimb	er Well	34.4	56	111-140	N/A		2022: Recommend cutting half of this stand this entry and the rest next	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	entry period. Retention patch of older aspen could be left in middle. Would need to figure out access tp center. May need to build road.	
	Red Maple	10	Pole	7	56	Re	ed Maple	Low	10 - 20 feet	Pole	Aspen is ready to start regeneration. 2004FMD: A6 2012 FMD: Well	
	Balsam Fir	5	Pole/Sapling	5		Ва	alsam Fir	Low	Variable	Sapling	stocked aspen with scattered white pine and balsam. Pine and spruce	
	Bigtooth Aspen	83	Log/Pole	10	56	W	hite Pine	Low	10 - 20 feet	Sapling	was damaged a fair amount by the Heavy snow in March 2012. This stand is just moving into some small logs. Let go another cycle.	
	White Pine	2	Pole	6								
158	42260 - Natural Pi			Poletimb		12.4	25	81-110	N/A		2022: Mixed stand after jp strips cut out. Looks like the birch was left and is slowly falling out. Let stand grow in. 2002 FMD: J3 scattered	
	Canopy Species		Size Class		l Age						white birch poles 2012FMD: Red maple /white birch retention in canopy	
	Paper Birch	10	Log	12	93						Birch will likely fall out. Called 15 yr class as 1st age. Mixed stand	
	Balsam Fir	3	Sapling	3							growing in with jack and red pine seeded in with mixed deciduous. Snow damage on jack pine from wet snow (March 2012).	
	White Pine	10	Sapling	3	25						damage on jack pine nom wet onen (maren 2012).	
	Red Pine	5	Sapling	3	25							
	Jack Pine	45	Pole	6	25							
	Red Maple	10	Pole/Sapling		93							
	Beech	15	Sapling	3								
	White Oak	2	Sapling	3								
159	4191 - Mixed Upla Co	and Deciduo onifer	ous with	Sawtimb	er Well	2.8	95	51-80	N/A		2022: Older wp, bc,rm overstory with poles growing through. Black locust expansion into stand. 2012FMD; Small pocket on edge of	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	compartment and surrounded by pine plantation. Low stocked overstory of WP, BC, WO, RM and locust, cherry and white growing in under (20-	
	Black Locust	20	Pole	8	40	Bla	ck Cherry	Medium	>20 feet	Sapling	30' tall) Some locust in canopy level.	
	Black Cherry	25	Log	12	95	Bla	ck Locust	Medium	>20 feet	Sapling		
			1	4.4	0.5					1	-	
	Red Maple	20	Log	14	95							



Stand	Level 4 C	Level 4 Cover Type 42110 - Planted Red Pine					Stand Age	BA Range	e Managed Site		General Comments	
160	42110 - Pla	nted Red P	ine	Sapling N	Лedium	29.9	8	Immature	N/A		2022: Good growth of planted pine., Some scattered mortality should be	
(Canopy Species	% Cover	Size Class	DBH	Age						investigated for forest health concerns. Stocking is variable as is row spacing. Smaller trees from later re=plant seem to be growing through.	
	Jack Pine	18	Sapling	2	8						FMD 2008: nominated for out of YOE harvest and re-plant in 2008.	
	White Pine	2	Sapling	3							RPP. Trenched 1n 2011. Initial plant 2012. Re-plant 2014. Sprayed one	
	Black Cherry	10	Sapling	2							eastern most strips and two western most strip. Will replant 2018 to bring up to full stocking. This stand has been updated from a field	
	Red Pine	70	Sapling	2	8						evaluation for a project on free to grow red pine.	
161	42220 - Nat	tural Jack P	ine	Poletimb	er Well	9.6	25	111-140	N/A		2022: Well stocked jp with a little white oak and patches of cherry	
(Canopy Species	% Cover	Size Class	DBH	Age						poles. 2004 FMD: Scattered maple- saw. J3 2012FMD; Pretty thick jack pine on cut jack pine strip. Some red pine and pockets with maple,	
	Black Cherry	10	Sapling/Pol	e 4							oak and cherry. Damage to jack pine from heavy snow (March 2012).	
	White Oak	2	Sapling/Pol	e 4							, , , , , , , , , , , , , , , , , , , ,	
	Red Pine	2	Sapling	3								
	Jack Pine	70	Pole/Saplin		25							
	Red Oak	6	Sapling	3	25							
	Red Maple	5	Sapling	2								
	Sugar Maple	5	Sapling	3	25							
162	42110 - Pla	nted Red D	ine	Sapling	ı Wall	22.5	8	Immature	N/A		2022: Good growth in diameter and height. 16' /year height growth. FMI	
						22.0	O	IIIIIIature	IN/A		2008: Nominated for out of YOE harvest and re-plant. RPP. Trenched	
	Canopy Species		Size Class		Age						in 2011. Planted 2012. Re-plant 2014. Northern strip has heavy cherry.	
	Black Cherry	10	Sapling	3	-						This stand has been updated from a field evaluation for a project on free to grow red pine.	
	Jack Pine	10	Sapling	3	8						to grow red pine.	
	Red Pine	80	Sapling	3	8							
163	4126 - White,	Black, N. Pi	n Oak	Sawtimb	er Well	8.0	127	51-80	N/A		2022: This stand is long term retention area for TS# 61-010-18. Harves	
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	2020. Cut to 4" but no white pine, red pine 8" or less or or green marketrees. Shelter-wood/seed tree harvest.	
	Red Oak	20	Log/Pole	14	127	R	ed Pine	Low	< 5 feet	Sapling	a doo . Onorto wood, bood a do marvoot.	
	Red Pine	15	Log/Pole	10	85	Re	ed Maple	Low	5 - 10 feet	Sapling		
	White Oak	65	Log/Pole	13	127	Bla	ck Cherry	Low	5 - 10 feet	Sapling		
						R	Red Oak	Medium	5 - 10 feet	Sapling		
						W	hite Pine	Low	10 - 20 feet	Sapling		
164	4110 - Sugar N	Maple Assoc	ciation	Sawtimb	er Well	12.3	115	81-110	N/A		2022: TS# 61-055-21 Estate Sale. Marked sale. Removed most larger	
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	maple and cherry to create seed tree/shelter-wood canopy. Stand is mature and in need or re-generation. 2004 FMD: M8 TS# 005-95 TCR	
	Red Maple	5	Log	14	115		ck Cherry	Low	5 - 10 feet	Sapling	2/97. Cut orange marked. Sold s. maple, b. cherry. 2012FMD: Current	
	Sugar Maple	74	Log	14	115		Beech	Low	5 - 10 feet	Sapling	stocking is fine. Look at next entry. Would not be enough volume to	
	Beech	6	Log	16		Ir	onwood	Low	5 - 10 feet	Sapling	generate commercial sale. Some good quality stems but not a large number of quality crop trees. Little maple regeneration. Old tree/fence	
	Black Cherry	15	Log	14		Suc		Low	5 - 10 feet	. 0	⊣ number of quality crop frees. Little maple regeneration. Old tree/fence	



Stand	Level 4 Co	over Type	;	Size Density	Acres	Stand Age	BA Range	Managed S	Site	General Comments
165	42110 - Plat Canopy Species Red Pine Black Cherry		Pine S Size Class Sapling Sapling	DBH Age 2 8 2	n 35.6	8	Immature	N/A		2022: Scattered small mortality pockets should be investigated for forest health risk. Good growth in general on stand. Some lower areas with lower survival and stocking. May have been frost influence. 2008FMD: nominated in 2008 for out of YOE harvest and re-planting RPP. Trenched in 2011. Planted 2012. Re-plant 2014. Scattered apple trees. This stand has been updated from a field evaluation for a project on free to grow red pine.
166	42110 - Plai	nted Red F	Pine F	Poletimber We	II 4.0	25	111-140	N/A		2022: Good growth. Consider row thin next entry. 2011: Planted red
	Canopy Species	% Cove	Size Class	DBH Age	Sub-Ca	anopy Specie	es Density	Avg. Height	Size	pine in old jack pine strip. Jack pine seeded in as well. Growing well but high stocking may impede red pine in future.
	Jack Pine	20	Pole	5 25	Bla	ck Cherry	Low	< 5 feet	Sapling	Thigh stootting may impose you pine in fatale.
	Red Pine	80	Pole	6 25				1	1	-
167	3302 - Low Den	sity Conife	er Trees	Nonstocked	1.1		Unspecified	No		2022: Some rp and jp and hardwoods encroaching on this small opening.
168	42220 - Nat	ural Jack F	Pine F	Poletimber We	II 3.5	25	51-80	N/A		2022: Patchy jp regen around residual oak, maple and cherry from last
	Canopy Species	% Cove	Size Class	DBH Age	Sub-Ca	anopy Specie	es Density	Avg. Height	Size	treatment.
	Jack Pine	78	Pole	6 25	F	Red Pine	Low	< 5 feet	Seeding	
	Black Cherry	10	Pole/Sapling	5	R	ed Maple	Low	5 - 10 feet	Sapling	
	Red Pine	2	Pole	6	Bla	ck Cherry	Low	5 - 10 feet	Sapling	
	Red Maple	10	Pole/Sapling	5		-				
169	4191 - Mixed Upla Co	and Decidu onifer	uous with S	Sawtimber We	ll 5.7	85	51-80	N/A		Small lower quality hardwood mix. Keep for diversity. Aspen is old and declining but not a lot of volume. 2004 FMD M6. Small fuelwood harvest
	Canopy Species	% Cove	Size Class	DBH Age	Sub-Ca	anopy Specie	es Density	Avg. Height	Size	(thinning) in 1996-98. 2012FMD: Small mixed stand with new plantations on 3 sides. Keep for diversity. Part of canopy is older aspen and white
	White Pine	20	Pole/Log	8 50	ıl	ronwood	Low	5 - 10 feet	Sapling	pine but a good bit of canopy is red maple/white pine poles. Some
	Sugar Maple	5	Log	10	Ва	alsam Fir	Low	5 - 10 feet	Sapling	decent form in red maple. A little beech in stand.
	Beech	2	Log/Pole	10	W	hite Pine	Low	< 5 feet	Sapling	
	Basswood	2	Log	12	R	ed Maple	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	36	Log/XLog/Pole	e 14 85						-
170	3301 - Low Densi	ty Deciduo	ous Trees	Nonstocked	2.6		Unspecified	No		2022: apple trees and some jp and wp seeding in
171	42220 - Nat			Sapling Mediun	n 11.9	20	51-80	N/A		2022: Well stocked pockets of jack pine with white and a little red pine. Some open pockets with seedlings. Let stand grow in to merchantable
	Canopy Species		Size Class	DBH Age		anopy Specie	es Density	Avg. Height	Size	size then harvest all and plant red pine. 2012: Was W7 age 57 in 2004
	Jack Pine	70	Sapling/Pole		J	ack Pine	Low	< 5 feet	Sapling	INV. TS 033-97. Cleaned up the WP. Stand swapped from Non-
	Red Pine	5	Sapling	4	F	Red Pine	Low	< 5 feet	Seeding	Forested to Forested. Filled in with jack pine after white pine was harvested. Scattered white pine in overstory. New jack pine saplings
	White Pine	25	Sapling/Pole	4 20	W	hite Pine	Low	< 5 feet	Seeding	called main overstory.

Report 7 – Stands

Compartment: 54

Year of Entry: 2024



Stand	Level 4 Co	over Type	s	ize De	nsity	Acres S	Stand Age B	A Range	Managed S	ite	General Comments		
172	6132 - Mixed Lowla	and Forest	with Cedar Sa	wtimb	er Well	13.8	93	81-110	N/A		2022: Some areas are very wet such as the NE corner and drain through		
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano	py Species	Density	Avg. Height	Size	middle. Other parts along west edge and south are more upland mix with aspen, oak and jp. 2004FMD: E5E8H4C4_2012FMD: barely lowland		
Nort	thern White Cedar	20	Log/Pole	12	93	Red	Maple	Low	10 - 20 feet	Sapling	some wet spots. Some bands of aspen on slightly higher ground but		
	Balsam Fir	5	Pole/Sapling	8		White	e Pine	Low	< 5 feet	Log	most is slightly lowland with appropriate species mix. Some large scattered white pine and young jack pine seeded in on west edge along plantation. Aspen is falling out of stand.		
	Tamarack	3	Log/Pole	12		Jack	(Pine	Low	5 - 10 feet	Sapling			
	White Pine	5	Log/Pole	16		Black	Cherry	Low	< 5 feet	Sapling	plantation. Aspen is faming out of stand.		
	Red Maple	20	Log/Pole	12	93								
	Black Cherry	5	Log/Pole	10									
	Hemlock	15	Log/Pole	12									
	Yellow Birch	2	Log/Pole	12									
C	Quaking Aspen	25	Log/Pole	12	93								
73	42110 - Planted Red Pine Saw			wtimb	er Well	49.7	64	111-140	N/A		2020: Avg BA 160. Let stand grow in. Roads built through stand for		
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano	py Species	Density	Avg. Height	Size	side by side? Trees blazed and painted to mark in places. 2015: TS# 003-14. Marked thinning. 2004 FMD; R6 TS# 038-94 Third row		
(, 190								
	Red Pine	100	Log	11	64		e Pine	Low	Variable	Sapling	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could		
174	Red Pine	100			64		e Pine	51-80	Variable N/A	Sapling	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered		
174	Red Pine	- Aspen		11 Sapling	64	White				Sapling	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR		
174	Red Pine 4130	- Aspen		11 Sapling	64 y Well	5.1 Sub-Canc	17	51-80	N/A		thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012		
74	Red Pine 4130 Canopy Species	- Aspen	Size Class	11 Sapling	64 y Well	5.1 Sub-Canc	17 ppy Species	51-80 Density	N/A Avg. Height	Size	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except		
174	Red Pine 4130 Canopy Species White Oak	- Aspen % Cover 5	Size Class Sapling/Pole	11 Sapling DBH	64 g Well	5.1 Sub-Canc	17 ppy Species	51-80 Density	N/A Avg. Height	Size	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012		
174	Red Pine 4130 Canopy Species White Oak Red Maple	- Aspen **Cover 5 10	Size Class Sapling/Pole Sapling	Sapling DBH 4	g Well Age	5.1 Sub-Canc	17 ppy Species	51-80 Density	N/A Avg. Height	Size	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012		
174	Red Pine 4130 Canopy Species White Oak Red Maple Bigtooth Aspen	- Aspen **Cover* 5 10 70	Size Class Sapling/Pole Sapling/Pole	Sapling DBH 4 2 4	64 Well Age 17	5.1 Sub-Canc	17 ppy Species	51-80 Density	N/A Avg. Height	Size	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012		
174 (Red Pine 4130 Canopy Species White Oak Red Maple Bigtooth Aspen Black Cherry	- Aspen % Cover 5 10 70 10 5	Size Class Sapling/Pole Sapling Sapling/Pole Sapling Sapling Sapling	11 Sapling DBH 4 2 4 2 4 4 2 4 4	9 Well 1 Age 17 17 17	5.1 Sub-Canc	17 ppy Species	51-80 Density	N/A Avg. Height	Size	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012 FMD: Aspen clear cut with a little retention of pine and oak.		
174 E	Red Pine 4130 Canopy Species White Oak Red Maple Bigtooth Aspen Black Cherry White Pine	- Aspen % Cover 5 10 70 10 5 ch, Cherry /	Size Class Sapling/Pole Sapling Sapling/Pole Sapling Sapling Sapling	DBH 4 2 4 2 4 wwtimb	9 Well 1 Age 17 17 17	5.1 Sub-Canc Be	17 opy Species eech	51-80 Density Low	N/A Avg. Height < 5 feet	Size	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012 FMD: Aspen clear cut with a little retention of pine and oak. 2022: Low quality stand with red maple, beech logs. Little desirable understory formed since last harvest in 1999. Beech brush under with a		
174 E	Red Pine 4130 Canopy Species White Oak Red Maple Bigtooth Aspen Black Cherry White Pine 4112 - Maple, Beec	- Aspen % Cover 5 10 70 10 5 ch, Cherry /	Size Class Sapling/Pole Sapling Sapling/Pole Sapling Sapling Sapling	DBH 4 2 4 2 4 wwtimb	9 Well Age 17 17 17 17	5.1 Sub-Cano	17 ppy Species eech	51-80 Density Low 51-80	N/A Avg. Height < 5 feet	Size Sapling	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012 FMD: Aspen clear cut with a little retention of pine and oak. 2022: Low quality stand with red maple, beech logs. Little desirable understory formed since last harvest in 1999. Beech brush under with a little rm, wp. Stocking is not high. Some older aspen in places. Illegal roads -Ranch Rudolf direction sign. Beech bark disease. 2002FMD: M6		
74 E	Red Pine 4130 Canopy Species White Oak Red Maple Bigtooth Aspen Black Cherry White Pine 4112 - Maple, Beec Canopy Species	- Aspen % Cover 5 10 70 10 5 ch, Cherry A	Size Class Sapling/Pole Sapling Sapling/Pole Sapling Sapling Sapling Sapling	DBH 4 2 4 2 4 DBH	9 Well Age 17 17 17 17	5.1 Sub-Cano 9.7 Sub-Cano White	17 ppy Species eech 85 ppy Species	51-80 Density Low 51-80 Density	N/A Avg. Height < 5 feet N/A Avg. Height	Size Sapling	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012 FMD: Aspen clear cut with a little retention of pine and oak. 2022: Low quality stand with red maple, beech logs. Little desirable understory formed since last harvest in 1999. Beech brush under with a little rm, wp. Stocking is not high. Some older aspen in places. Illegal roads -Ranch Rudolf direction sign. Beech bark disease. 2002FMD: M6 TS# 033-97. TCR 6/99. Cut all marked trees. Sold white pine, aspen, s.		
174 E	Red Pine 4130 Canopy Species White Oak Red Maple Bigtooth Aspen Black Cherry White Pine 4112 - Maple, Beec Canopy Species Red Oak	- Aspen % Cover 5 10 70 10 5 ch, Cherry /	Size Class Sapling/Pole Sapling Sapling/Pole Sapling Sapling Sapling Sapling Sapling Association Sa	DBH 4 2 4 2 4 DBH DBH 10	9 Well Age 17 17 17 17	9.7 Sub-Canc White	17 ppy Species eech 85 ppy Species e Pine	51-80 Density Low 51-80 Density Low	N/A Avg. Height < 5 feet N/A Avg. Height 5 - 10 feet	Size Sapling Size Sapling	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012 FMD: Aspen clear cut with a little retention of pine and oak. 2022: Low quality stand with red maple, beech logs. Little desirable understory formed since last harvest in 1999. Beech brush under with a little rm, wp. Stocking is not high. Some older aspen in places. Illegal roads -Ranch Rudolf direction sign. Beech bark disease. 2002FMD: M6 TS# 033-97. TCR 6/99. Cut all marked trees. Sold white pine, aspen, s. maple, basswood, red maple beech. 2012FMD: Same canopy gaps		
174 E	Red Pine 4130 Canopy Species White Oak Red Maple Bigtooth Aspen Black Cherry White Pine 4112 - Maple, Beec Canopy Species Red Oak Black Cherry	- Aspen % Cover 5 10 70 10 5 ch, Cherry A Cover 2 2	Size Class Sapling/Pole Sapling Sapling Sapling Sapling Sapling Sapling Association Sa Log Log/Pole	DBH 4 2 4 2 4 wwtimb DBH 10 14	Well Age 17 17 17 17 18 er Well	9.7 Sub-Canc White	17 opy Species eech 85 opy Species e Pine Cherry	51-80 Density Low 51-80 Density Low Low Low	N/A Avg. Height < 5 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Size Sapling Size Sapling Sapling	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012 FMD: Aspen clear cut with a little retention of pine and oak. 2022: Low quality stand with red maple, beech logs. Little desirable understory formed since last harvest in 1999. Beech brush under with a little rm, wp. Stocking is not high. Some older aspen in places. Illegal roads -Ranch Rudolf direction sign. Beech bark disease. 2002FMD: M6 TS# 033-97. TCR 6/99. Cut all marked trees. Sold white pine, aspen, s.		
174 175	Red Pine 4130 Canopy Species White Oak Red Maple Bigtooth Aspen Black Cherry White Pine 4112 - Maple, Beec Canopy Species Red Oak Black Cherry White Pine	- Aspen % Cover 5 10 70 10 5 ch, Cherry / % Cover 2 2 7	Size Class Sapling/Pole Sapling Sapling Sapling Sapling Sapling Sapling Association Sa Log Log/Pole Log	DBH 4 2 4 2 4 2 4 DBH 10 14 14	Well Age 17 17 17 17 18 er Well	9.7 Sub-Canc White	17 opy Species eech 85 opy Species e Pine Cherry	51-80 Density Low 51-80 Density Low Low Low	N/A Avg. Height < 5 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Size Sapling Size Sapling Sapling	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012 FMD: Aspen clear cut with a little retention of pine and oak. 2022: Low quality stand with red maple, beech logs. Little desirable understory formed since last harvest in 1999. Beech brush under with a little rm, wp. Stocking is not high. Some older aspen in places. Illegal roads -Ranch Rudolf direction sign. Beech bark disease. 2002FMD: M6 TS# 033-97. TCR 6/99. Cut all marked trees. Sold white pine, aspen, s. maple, basswood, red maple beech. 2012FMD: Same canopy gaps created from last treatment but not much desirable regeneration growing		
174 175	Red Pine 4130 Canopy Species White Oak Red Maple Bigtooth Aspen Black Cherry White Pine 4112 - Maple, Beec Canopy Species Red Oak Black Cherry White Pine Bigtooth Aspen	- Aspen % Cover 5 10 70 10 5 ch, Cherry / % Cover 2 2 7 3	Size Class Sapling/Pole Sapling Sapling Sapling Sapling Sapling Association Sa Size Class Log Log/Pole Log Log	DBH 4 2 4 2 4 10 10 11 11 11 11 11 11 11 11 11 11 11	9 Well Age 17 17 17 17 18 Age 85	9.7 Sub-Canc White	17 opy Species eech 85 opy Species e Pine Cherry	51-80 Density Low 51-80 Density Low Low Low	N/A Avg. Height < 5 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Size Sapling Size Sapling Sapling	thinning. TCR 1/95 2012FMD: Not much damage from heavy snowfall in this stand. Stocking in on the high side. Needs thinned in rows. Could spec every third tree or mark. 2022: Decent growth. Aspen and red maple growing through scattered retention of oak, maple, pine, beech. 2002FMD A5 TS# 047-04. TCR 3/05. Sliver Aspen. included PI stands 137, 141. Cut all to @" except no beech bc oak rp. Cut mostly aspen with some wp and rm. 2012 FMD: Aspen clear cut with a little retention of pine and oak. 2022: Low quality stand with red maple, beech logs. Little desirable understory formed since last harvest in 1999. Beech brush under with a little rm, wp. Stocking is not high. Some older aspen in places. Illegal roads -Ranch Rudolf direction sign. Beech bark disease. 2002FMD: M6 TS# 033-97. TCR 6/99. Cut all marked trees. Sold white pine, aspen, s. maple, basswood, red maple beech. 2012FMD: Same canopy gaps created from last treatment but not much desirable regeneration growing yet. Most is beech, cherry, white pine. Some well formed red maple left		

176	4130 -	4130 - Aspen							
	Canopy Species	% Cove	r Size Class	DBH	I Age				
	Red Oak	5	Pole	8					
	Red Maple	20	Pole	8	57				
	Bigtooth Aspen	65	Log	11	57				
	White Pine	10	Log/Pole	14	115				

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

111-140

N/A

10.6

57

2022: Aspen is declining and should be considered for re-start. Some of the white pine throughout the stand is getting large for commercial use. May be possible to hold .

Stand to north recently harvested. Could leave some well formed pine and oak if found and harvest to regenerate. Aspen is patchy. Illegal roads. 2002 FMD A6 47 age



Stand	Stand Level 4 Cover Type			Size De	ensity	Acres	Stand Age E	BA Range	A Range Managed Site		General Comments			
177			, Aspen Mix		Sawtimber Well		115	81-110	N/A		2022: Mixed sizes of white pine and red maple. There was ash but all dead. Some red oak poles. May be good to get some of the bigger wp			
	Canopy Species		Size Class		l Age		nopy Species		Avg. Height	Size	and rm out and the aspen which is getting large and falling out. Could			
	Red Maple	15	Log	10	57	Re	d Maple	Low	5 - 10 feet	Sapling	mark it for crop tree release on the pole size. Would create stand with mixed age classes which would be difficult to manage in future. Could treated with stand 176 if that is harvested. Some wp seedling through			
	Bigtooth Aspen	20	Log	12	57		Beech	Low	5 - 10 feet	Sapling				
	White Pine	50	Log	14	115		nite Pine	Low	5 - 10 feet	Sapling	stand. May be able to get wp to fill in over time. Illegal roads through			
	Sugar Maple	1	Log	10		Blad	ck Cherry	Low	5 - 10 feet	Sapling	stand. 2002 Fmd W8 Retention of stand for regen purposes TS# 033-			
	Quaking Aspen	5	Log/Pole	10							97. TCR 6/99. Cut all marked trees. Sold white pine, aspen, s. maple,			
	Black Cherry	5	Log	12							basswood, red maple beech. 2012FMD; The canopy in this stand is dominated by 105 age white pine with younger aspen, pine, maple,			
	Red Oak	4	Pole	8							cherry (age 47) grown in. Has old pine look.			
178	4130	- Aspen		Sapling	g Well	13.5	17	Immature	N/A		2022: Good growth on aspen. Some scattered oak and pine retention			
	Canopy Species	% Cover	Size Class	DBH	l Age						from last harvest. Let stand develop. 2002:A5 TS# 047-04. TCR 3/05. Sliver Aspen.			
	Red Maple	7	Sapling	1	17						included PI stands 137, 141. Cut all to 4" except no beech bc oak rp.			
	White Pine	6	Sapling	2							Cut mostly aspen with some wp and rm. 20121FMD: aspen clear-cut			
	Bigtooth Aspen	20	Sapling	3	17						with retention of oak, cherry and pine. Good aspen regen in most areas.			
	Quaking Aspen	60	Sapling	3	17									
	Black Cherry	7	Sapling	1	17									
	Canopy Species Black Cherry White Pine Red Pine	% Cover 25 5 70	Size Class Sapling Sapling Sapling	DBH 3 2 2	8 8 8						mortality in pockets and scattered. Should evaluate forest health concerns. Deciduous competition on east aside. Most is cherry and red pine seems to be outgrowing it but the stocking or the rp is lower. Trenched in 2011. TS # 033-97. 2008. Nominated or out of entry cutting and replanting. RPP> Initial plant 2012. Re-plant 2014. Sprayed 2014 to control brush on east side but not effective. No follow up to re-spray so east side is full of cherry brush. Regen survey 2017: 650 -700 TPA rp. Much cherry competition and lighter ip seedlings.			
180	4311 - Pin	e. Aspen M	lix	Sawtimb	er Well	7.0	143	81-110	N/A		Raspberries. This stand has been updated from a field evaluation for a project o to grow red pine. 2022: White pine is getting large and aspen id declining. Could cut			
100	Canopy Species	% Cover	Size Class		l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	aspen and most red maple and larger pine. There are pockets of thick maple regen with aspen and wp. (10-20') Maybe cutting in shelter-wood			
	Beech	3	Log	14			ed Maple	Medium	10 - 20 feet	Sapling	harvest will generate some maple and aspen under. The hardwood			
	Bigtooth Aspen	30	Log	11	70	WI	hite Ash	Low	< 5 feet	Sapling	stand to the east has ironwood and beach under and very little maple			
	Sugar Maple	3	Log	10			oth Aspen	Medium	10 - 20 feet	Sapling	while this stand has generated a lot of maple saplings in pockets after			
	White Oak	2	Log/Pole	10						, , ,	last treatment. 2004 FMD: W9 Retention of stand for shelterwood purposes. Area is regenerating to WP seedlings. TS# 033-97. TCR			
	Red Pine	5	Log	14							6/99. Cut all marked trees. Sold white pine, aspen, s. maple, basswood			
	Ironwood	2	Pole	6							red maple beech. 2012fmd: ix of old white pine and aspen (age 60?)			
	White Pine	47	Log	17	143						Enough aspen to get good regen but leave for now. Pocket of aspen in center of stand was cut last entry and has heavy regen growing through			
	Red Maple	8	Log	10	70						pine. (age 12). This is heavy aspen regen show in sub canopy call. Not			
			3								heavy outside of this pocket. Large adjacent area of young aspen so keep this now for age class diversity.			

Stand	and Level 4 Cover Type		Level 4 Cover Type			Size D	neity	Acros	Stand Age	itand Age BA Range Managed Sit		ito	General Comments	
181	••		- -		Nonstocked		1.5		Unspecified	No No		2022: Some dumping. OLD HOME SITE-FOUNDATIONS		
182	82 4110 - Sugar Maple Association		ociation	Sawtimb	er Well	4.6	102	51-80	N/A		2022: SM is getting large and likely losing value but almost all of the			
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	under story regen is ironwood. Hold stand until better regeneration options exist. 2004FMD: M9 TS# 033-97. TCR 6/99. Cut all marked			
	Hemlock	2	Log	12		-	Beech	Low	5 - 10 feet	Sapling	trees. Sold white pine, aspen, s. maple, basswood, red maple beech.			
	Basswood	10	XLog/Log	18		Wh	hite Pine	Low	5 - 10 feet	Sapling	2012FMD: Stocking is fione at this time. Let this stand grow in for now.			
	Beech	10	Log	16	102	Blad	ck Cherry	Low	5 - 10 feet	Sapling	Not much maple regeneration forming at this time. Moat is Beech, IW, WPa little BC, Ash.			
	White Pine	5	XLog/Log	18		Iro	onwood	Medium	5 - 10 feet	Sapling	WFa little DC, ASII.			
	Sugar Maple	70	Log	16	102	W	hite Ash	Low	< 5 feet	Sapling				
	Black Cherry	3	Log/Pole	10	102									
185	4126 - White, Black, N. Pin Oak			Sawtimb	er Well	10.0	106	81-110	N/A		2022: Split off NW corner of stand 28 which has more pine component to			
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	reate this stand. May make good retention area for surrounding treatments.			
	White Pine	10	Log/Pole	14	106	Re	ed Maple	Medium	10 - 20 feet	Sapling	a deathorite.			
	Red Pine	10	Log	14	85	WI	hite Pine	Medium	10 - 20 feet	Sapling				
	Jack Pine	5	Log/Pole	12	85	Blad	ck Cherry	Low	10 - 20 feet	Sapling				
	Red Maple	15	Log/Pole	10		R	ed Oak	Low	5 - 10 feet	Sapling				
	Red Oak	20	Log/Pole	15	106	WI	hite Oak	Medium	5 - 10 feet	Sapling				
	White Oak	40	Log/Pole	14	106	R	ed Pine	Low	10 - 20 feet	Sapling				
186	42110 - Pla	0 - Planted Red Pine F			r Mediun	n 25.1	30	51-80	N/A		Planted red pine with natural jp and oak. Light residual canopy of oak			
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	and pine. Called canopy on 29 yr age. Decent growth on red pine in the last decade. Stocking is variable but good in most areas.			
	Black Cherry	5	Sapling/Pole	e 4	30	Oa	ak (spp.)	Medium	< 5 feet	Seeding				
	White Oak	5	Sapling/Pole	e 4	30									
	White Pine	5	Sapling	2										
	Jack Pine	20	Pole	6	30									
	Red Pine	65	Pole	5	30									
188	188 42210 - Natura		Pine	Sawtimber Poor		21.9	83	1-50	N/A		2022: Large red pine and white oak with oak, jp and wp salpings 20'+			
	Canopy Species	% Cover	Size Class	s DBH Age		Sub-Ca	nopy Species	s Density	Avg. Height	Size	growing through. Keep 29 age in sub-canopy. May want to flip next entry. 2011: Was R7 stand age 83. 20 may be first age. TS# 024-8			
	Red Pine	70	Log	14	83	WI	hite Oak	Medium	>20 feet	Sapling	Cut all merchantable but do not cut trees marked with green or blue and			
	White Oak	25	Log	16	125	Re	ed Maple	Low	>20 feet	Sapling	do not cut any red or white pine. TCR 1/91 PI Stands 4 and 5 were both			
	White Pine	5	Log	14	83	WI	hite Pine	Low	>20 feet	Sapling	in this sale. 2011FMD; Scattered oak and pine overstory with moderate thick oak and jack pine regen with a little planted red pine age 20.			
						Ja	nck Pine	Low	10 - 20 feet	Pole	Younger age is too advance to remove overstory. Let this age grow			
						-	1 01		. 00 5 1	0 !:	through			

Black Cherry

Red Pine

Sapling

Sapling

>20 feet

10 - 20 feet

Low

Low

through.



Stand	Level 4 C	Level 4 Cover Type Size		Size De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
200			4129 - Mixed Oak		Sawtimber Well		9.8 100		N/A		2022: Lower quality and stocking of oak and red pine mix. The majority
			Size Class	DBH	l Age	Sub-Ca	anopy Species	s Density	Avg. Height	Size	of the pine is lower diameter and stunted. Most of the oak is poor quality. Consider removing most oak and any larger pine to release
	Jack Pine	2	Pole	9	85	W	hite Pine	Low	Variable	Sapling	advanced oak understory. Retain lower diameter red pine for shelter and
	Red Oak 28		Log	12	100	F	Red Oak		< 5 feet	Seeding	some scattered better formed oak for mast and seed production. Could
	White Oak	Oak 38 Log		og 11 100	100	W	Vhite Oak	Medium	< 5 feet	Seeding	treat with stand 75 which is similar in ways. 2011FMD; OAK LOGS AND POLES WITH INTERPLANTED RED PINE. A good bit of the red pine
	Red Pine	20	Pole/Log	8	85						suppressed but it grew pretty well where it had room =less oak/more red
	Red Maple	10	Pole	8							pine. Consider thinning stand to bring along better oak and pine or
	Quaking Aspen	2	Log	12	85						perhaps cutting most and weaving red pine back in. Areas have advanced oak and white pine regen. Suppressed pine may not release
				·							at his point and oak is mediocre in quality.