

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61052 Entry Year 2022 Acreage: 3,039

County Grand Traverse

Management Area: Boardman Plains

Revision Date: 2020-08-03

Stand Examiner: Pat Ruppen

Legal Description:

T26N R9W Sections 13,14,15,16,17,18

Identified Planning Goals:

Management Goals: This compartment is contained within LTAs 5111 and 5549 of Sub-Section VII 2.2. LTA 5111 is a broad flat outwash plain with few kettle lakes. Soils are generally excessively drained and wildfires were common; often spreading for miles. Pre-settlement vegetation varied for this LTA but Xeric Conifer Forests and Pine Barrens were common on the more fire prone sites. Forests dominated by white pine and oak mixed with other conifers were common on the less fire prone sites. Due to wildfire suppression and extensive conifer plantations, the extent of natural xeric pine associations, barrens, and prairie openings has been greatly reduced. An attempt should be made through vegetative management and the use of prescribed fire to reset the clock on some of these stands and to create some new pine, oak and aspen mixes. Due to fire exclusion Red Pine has not been regenerating naturally in many of these stands therefore it is recommended that Red Pine seedlings be inter-planted in some treated stands to retain this component of the xeric pine mix. Stands with high components of early succession species, (particularly jack pine and aspen), are aging and declining. A focus should be on regenerating these stands or salvaging these stands components. Browsing and poor quality stump sprouts have been a problem in the past when regenerating oak stands. Many of these low quality oak stands are remnants on soils and topography inclined to succession back to natural pine stands with a high component of white pine. A focus should be on encouraging succession back to natural pine stands while maintaining a considerable component of mixed oak in the canopy for mast production. A high quality oak/pine barrens community has been identified in Section 15. This area should be managed to enhance and maintain the functions of the barrens area. Several older oak and pine stands have been recommended for harvest and regeneration by planting red pine. Natural regeneration attempts have failed due to deer browsing, therefor planting is recommended. A red pine stand near the trail camp should be thinned to increase the health and vigor of the trees. Another mixed stand has been recommended for thinning to focus on releasing the younger age classes found in the stand and removal of most of the older declining trees. A stand adjacent to the managed barrens area on Jack Pine Road will be harvested to expand the managed barrens area. Most of the declining Jack Pine will be removed and other trees in this stand. LTA 5549 is a mosaic of lowland conifer, hardwood, shrub and emergent swamp associated with the river and creek drainages. Significant deer wintering habitat was observed.

Soil and topography:

Rubicon sand, Roselawn Sand and Lupton Muck near water courses. Mixed topography with broad flats, rolling terrain and steep slopes up to 50% adjacent to the Boardman River valley and Carpenter Creek Drainage which cuts through this compartment. Some pothole topography.

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

Sections 13 and 16 are block state ownership. The rest of compartment has mixed ownership with private in-holdings.

Unique Natural Features:

The Boardman River is a state designated wild and scenic river. Carpenter Creek is a designated trout stream. An Ecological Reference Area -Oak/pine Barrens Community occurs In Section 15.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

The Boardman River is a state designated wild and scenic river. Carpenter Creek is a designated trout stream. A nominated Ecological Reference Area -Oak/pine Barrens Community occurs In Section 15.

Watershed and Fisheries Considerations:

This compartment is in the Boardman River watershed, and contains portions of Carpenter Creek, and the Boardman River. Appropriate buffers (as outlined in Water Quality Management Practices on Forest Land) and Natural Rivers zoning restrictions should be adhered to around all streams in this compartment. Existing buffers appear to be appropriate for the proposed treatments.

Wildlife Habitat Considerations:

This compartment falls primarily within a broad, flat outwash plain with few wetlands and excessively drained sand. This is a fire-driven landscape, so a range of habitat conditions from open barrens to some late-successional forests is appropriate. Thus, management should continue to promote various age classes and species mixes of oak-aspen-pine forest through burning and timber harvest. Final harvests should retain as many snags and downed logs as possible as well as a variety of residual live trees, especially oak. Tops should be left unchipped and in scattered piles around the sale area. Future management of the several pine stands here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Deciduous species should be encouraged within conifer plantations for diversity.

Grassland/Barrens habitat should be maintained by periodic burning. Remnant high quality Oak Pine Barrens can be found in this compartment and these communities benefit greatly from burning. Also, opportunities exist to restore more of this exceptionally rare habitat type and should be pursued. Many rare as well as common wildlife species utilize the unique blend of habitat components provided by barrens. Several abandoned oil well sites will be replanted to annual rye to provide a spring/fall food source for deer using nearby winter cover and to eliminate invasive species. The compartment is also transected by the Boardman River and Carpenter Creek drainages. These riparian areas should be primarily managed for lowland mixed forest, including cedar and hemlock. Some deer use these areas for winter cover. Natural disturbances included beaver activity and small blowdown patches, which can be mimicked with occasional patch cuts if necessary.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no current economic use for the Coldwater Shale. The nearest gravel pits are one and one-half miles to the southeast. Gravel potential in the compartment is considered good. This area is located in the Silurian Niagaran reef trend. Most of the State land is currently leased for oil and gas development and there may be additional reef potential. Portions of this Compartment have been recently leased for underground gas storage. The Antrim Shale has not been developed in this area, but may have some future potential.

Vehicle Access:

Access to some areas is good via county roads and two tracks. Other areas have challenging access due to slopes and sandy road conditions. The quality of many roads has been declining due to wide spread ORV use after use was legalized on state forest roads.

Survey Needs:

Recreational Facilities and Opportunities:

Schecks Campground and Trail Camp, Boardman Valley Snowmobile Trail, Grand Traverse Motorcycle Trail, Shore to Shore Hiking-Riding Trail

Fire Protection:

VFD Fire Protection is provided by Gr. Traverse Rural Fire Dept., Battalions 3 and 6. DNRE Fire Protection is from the Traverse City Field Office, however this entire compartment falls within Zone 6. On a Very High of an Extreme Fire rating, additional DNRE suppression equipment will automatically dispatch to the scene from Kalkaska and Manton to the fire scene, and units from other stations will shift to be closer in case they are needed. Urban Inner-face is not too much of an issue here with the exception of some areas in sections 17 and 18, and also located there are two state forest campgrounds. Access is adequate, and travel times are acceptable.

Additional Compartment Information:

The following reports from the Inventory are attached:

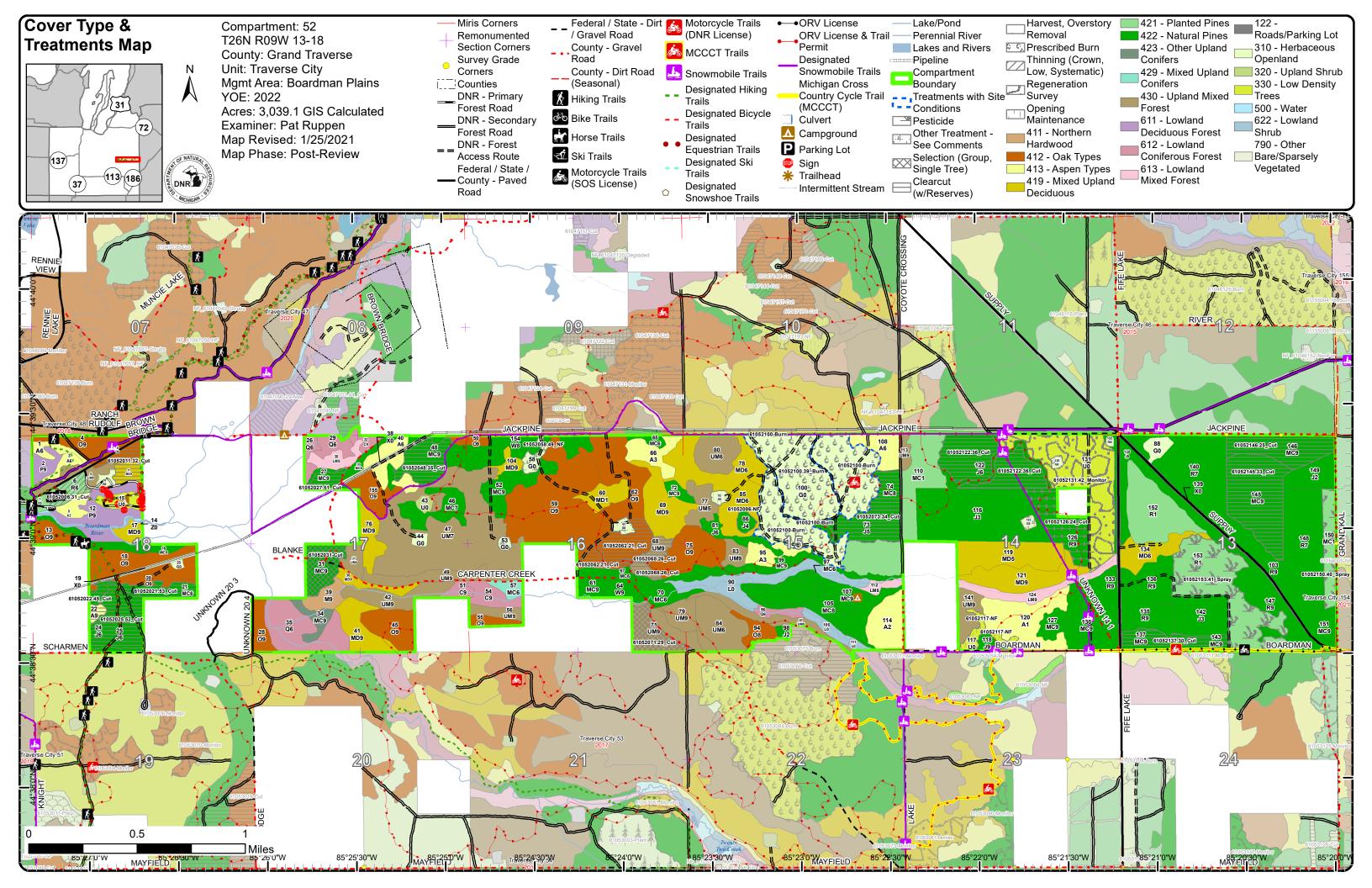
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

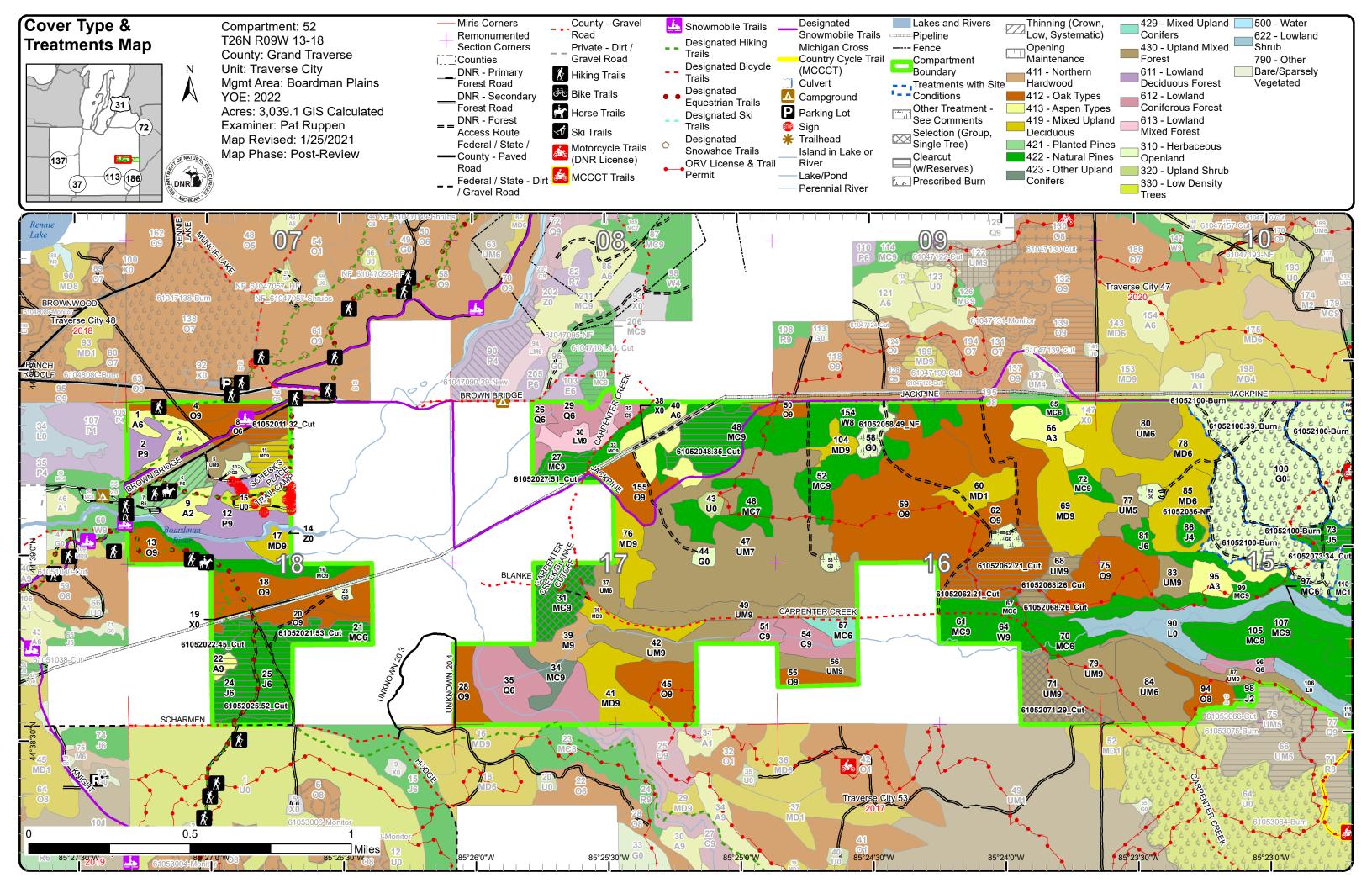
The following information is displayed, where pertinent, on the attached compartment maps:

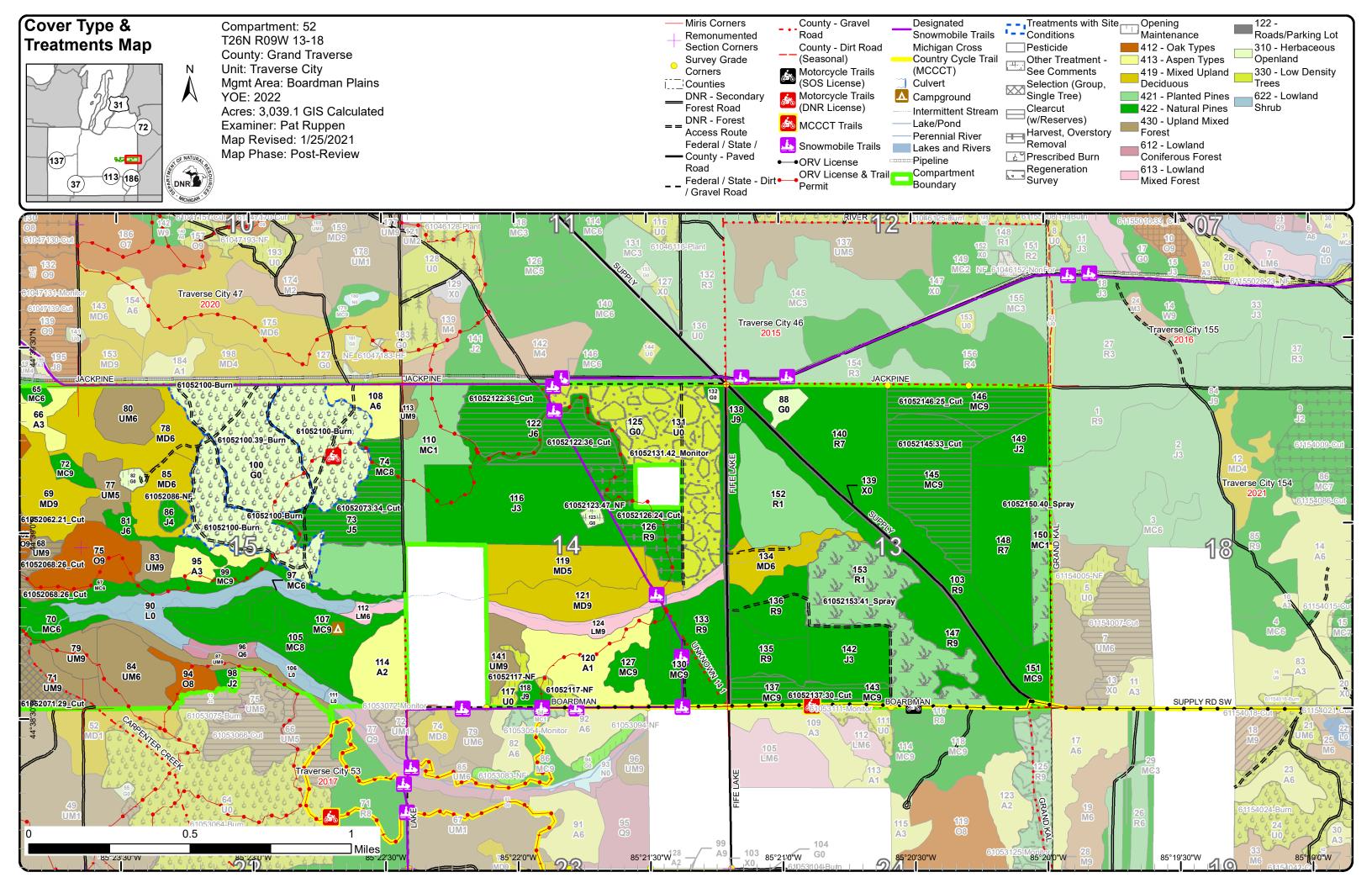
Base feature information, stand boundaries, cover types, and numbers

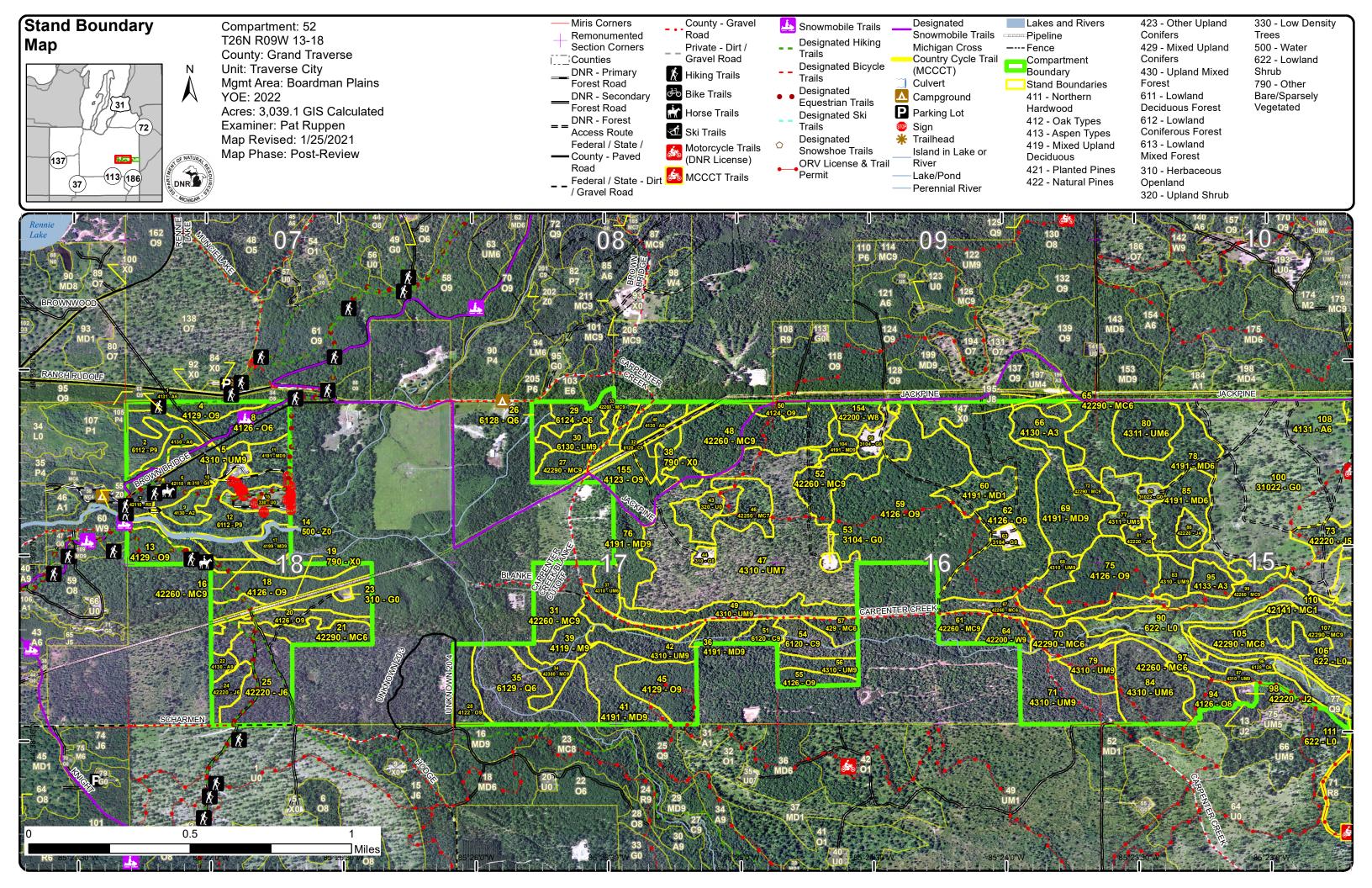
Proposed treatments
Site condition boundaries

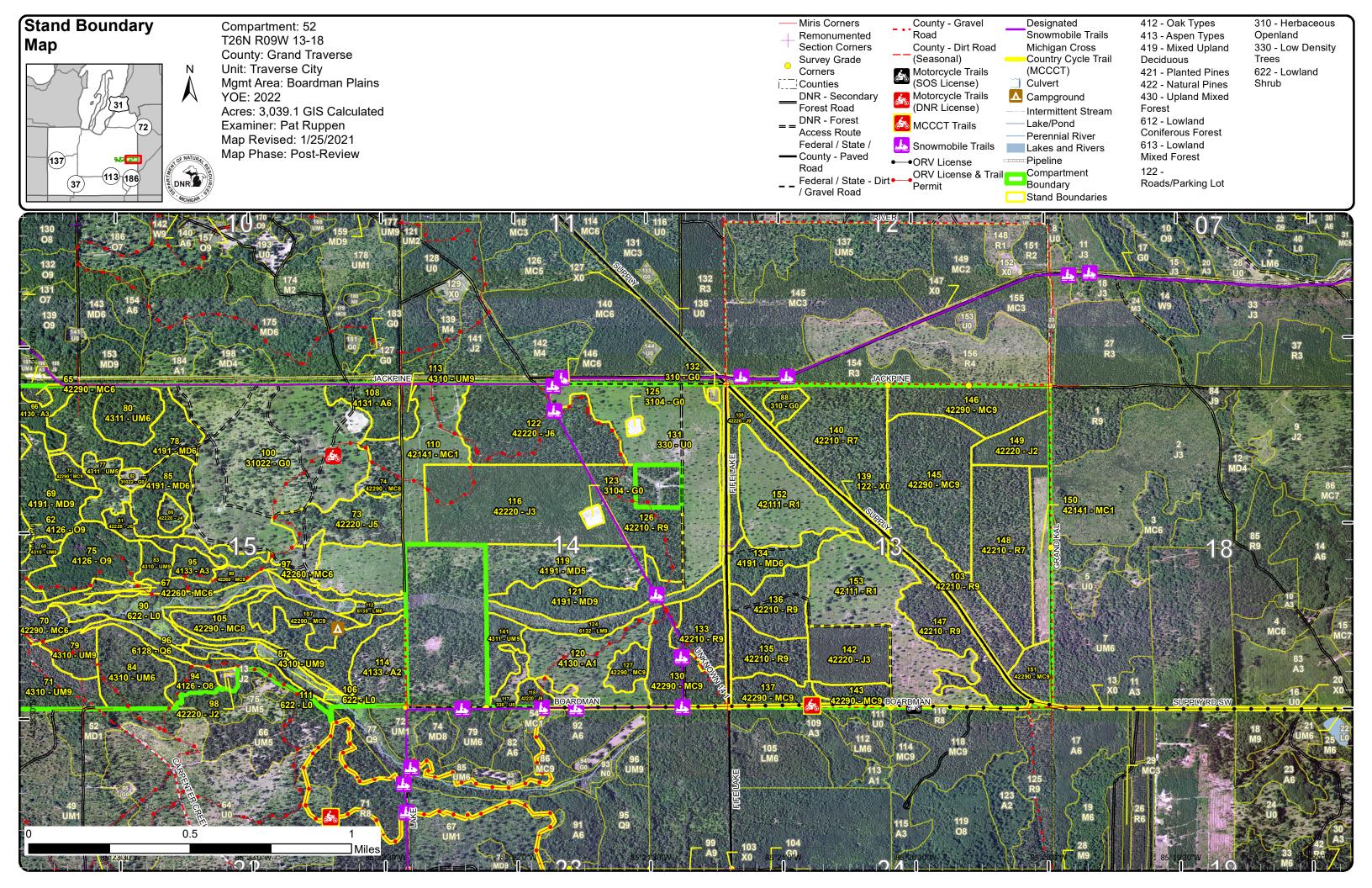
Details on the road access system

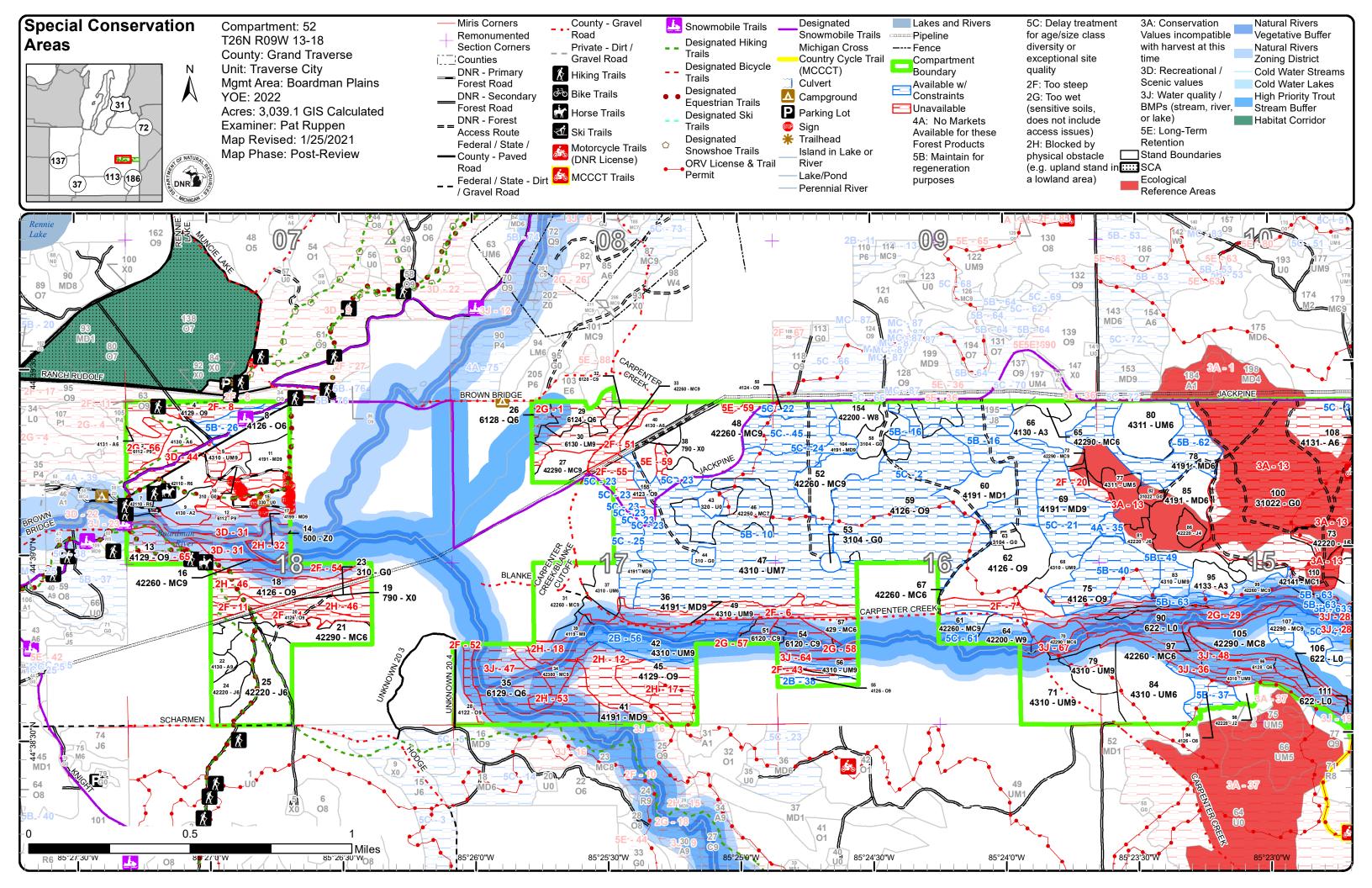


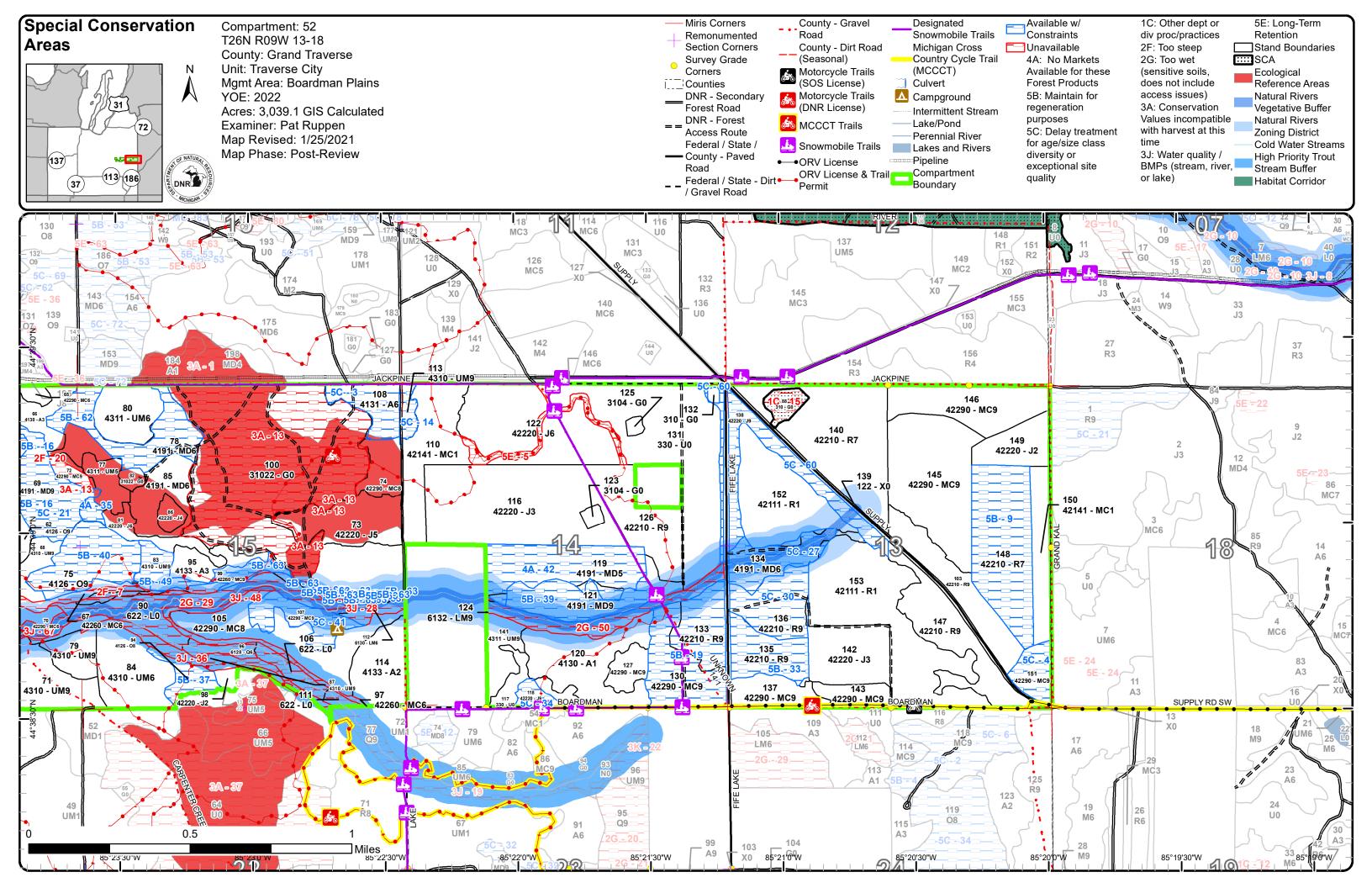












Pat Ruppen: Examiner

Compartment 52 Year of Entry 2022



Age Class

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	North North		/ § / §			S K							Ø /2,		N S	No.		\$ J.C.	La L	/
Aspen	0	42	32	46	7	5	19	0	0	0	0	0	0	0	0	0	0	0	151	
Bare/Sparsely Vegetated	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	23	
Herbaceous Openland	193	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	193	
Jack Pine	0	0	0	137	0	0	52	0	136	0	0	0	0	0	0	0	0	0	324	
Low-Density Trees	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	9	29	0	0	0	0	0	0	0	0	0	38	
Lowland Conifers	0	0	0	0	0	0	0	0	0	9	0	0	0	47	0	0	0	6	61	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	15	0	0	19	0	0	0	0	34	
Lowland Shrub	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	
Mixed Upland Deciduous	0	0	0	13	0	33	80	0	8	0	0	66	61	0	0	0	0	0	260	
Natural Mixed Pines	0	0	0	0	0	0	26	16	103	130	58	34	9	0	0	0	0	102	478	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11	
Oak	0	0	0	0	0	0	0	0	0	0	168	71	12	93	0	0	0	12	356	
Planted Mixed Pines	0	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	
Red Pine	0	126	0	0	0	15	0	0	162	21	57	0	0	0	0	0	0	53	433	
Upland Conifers	0	0	0	0	0	0	0	0	0	6	0	0	0	9	0	0	0	0	15	
Upland Mixed Forest	0	0	0	31	0	21	21	57	39	13	157	22	0	0	0	0	0	0	361	
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
White Pine	0	0	0	0	0	0	0	0	20	0	0	0	0	8	0	0	0	0	28	
Total	382	252	32	227	7	74	198	82	497	179	455	204	82	199	0	0	0	173	3039	



Report 2 – Treatment Summary

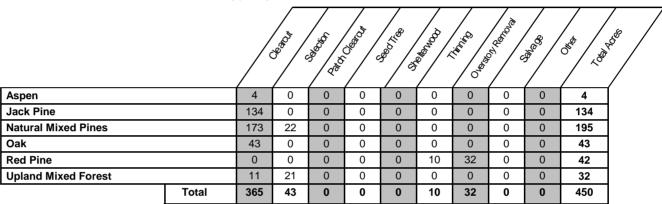
Traverse City Mgt. Unit Year of Entry: 2022

Acres of Harvest

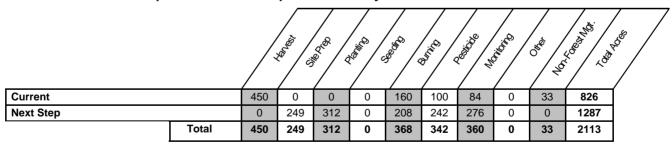
Compartment 52
Total Compartment Acres: 3,039

Commercial Harvest - 450 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Compartment: 52 Year of Entry: 2022

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Treatment Name

Acres Stand CoverType

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Size Stand Density Age

nd BA e Range Treatment Type Treatment Method Cover Type Objective Age Structure Habitat Cut

Approved Treatments:

61052006.31 10.3 42110 - Planted Poletimber 48 201+ Systematic 4211 - Planted Even-Aged No Harvest Red Pine Cut Red Pine Well Thinning

Prescription Reduce ba to 120-140. Some areas will need rows removed while in other areas the thinning may be within the rows. Some areas need

Specs: rows to be created.

Next Step Treatments:

Acceptable Regen:

Other Consider riding trail cutting through stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

8 61052011.32 15.9 4126 - White, Poletimber 120 51-80 Harvest Clearcut with 42111 - Planted Even-Aged No Cut Black, N. Pin Oak Well Retention Red Pine,

Mixed Deciduous

Prescription Specs:

harvest to 1"dbh and plant red pine after harvest. Retain some well formed oak and pine in treatment area. Consider trail along east edge. Stand will be trenched and planted in a weave pattern. No herbicide unless absolutely necessary as this stand is adjacent to recreation areas and trails. This stand is being treated because of failure of natural regeneration after last treatment. Heavy browsing noted on regeneration. Attempt to grow stand in a more natural way.

<u>Next Step</u> ; Planting, Initial Plant; SitePrep, Trenching <u>Treatments:</u>

Acceptable red pine, white pine, red maple, oak, aspen.

Regen:

Other Old fence wire along east side. Witness trees @ ne corner. Trail along east edge. Small east west slope in middle could be retention pocket. Also need retention along trail on east side. May just also want to leave some scattered oak and pine. There are some good white

oak.

Site Condition

Proposed Start Date: 10/1 /2021

 21
 61052021.53_
 17.2
 42290 - Natural
 Poletimber
 106
 51-80
 Harvest
 Clearcut with
 4310 - Pine,
 Even-Aged
 No

 Cut
 Mixed Pine
 Well
 Retention
 Oak Mix

<u>Prescription</u> --Patrick Ruppen: 05/25/2010 comments: Green mark some well formed oak and pine to retain for mast and seed production and harvest specs: remaining stems down to 2" dbh to prep site for planting.

<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Expect next stand to consist of planted rp/natural jp/oak/red maple/white pine, aspen.

Regen:

Comment:

Other --Patrick Ruppen: 05/25/2010 comments: Require chipping to reduce slash load. Expect next stand to consist of planted rp/natural

jp/oak/red maple/white pine. Horse Trail in stand possibly. Buffer if it is. Old next step comments: --Patrick Ruppen: 05/25/2010 comments: trench and plant red pine. Weave into openings after harvest treat with stand 25 to south. Trying to get jp out before there is a

lot of mortality and trouble with slash.

Site Condition

Proposed Start Date: 6/3/2014

Nο

Compartment: 52

413 - Aspen

Year of Entry: 2022

Even-Aged

S ŧ а

22

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

Harvest

Clearcut with

Retention

81-110

Prescription Final harvest to regenerate stand. Retain some scattered, well formed oak and pine.

Sawtimber

Well

4130 - Aspen

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

4 0

Treatments:

61052022.45

Cut

Acceptable aspen oak, white pine, red pine, jack pine

Regen:

Other Treatment added in 2016 through CH 7 process.

Comment:

Site Condition

Proposed Start Date: 10/1 /2011

61052025.52 42220 - Natural 76 51-80 42250 - Pine, 36.6 Poletimber Harvest Clearcut with Even-Aged Nο Jack Pine Retention Oak Cut

Prescription --Patrick Ruppen: 05/25/2010 comments: Green mark some well formed oak and pine (10-40 ba) to retain for mast and seed production.

Harvest remaining stems down to 2" DBH and chip tops to reduce slash load. Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Expect new stand to consist of planted red pine/natural jack pine/oak/red maple and aspen.

Regen:

Other Comment:

--Patrick Ruppen: 05/25/2010 comments: Scatered rp in stand has much better size and form than jack pine. Red pine planted on adjacent private property is growing well. Require chipping to reduce slash load which would hinder trenching. Expect new stand to consist of planted red pine/natural jack pine/oak/red maple. ORV concerns -getting on to poweline on north end of sale to access hill climbs in other compartment. Look at blocking with trencher. Seems to be some horse trail through stand but not mapped? Old next step comments: --Patrick Ruppen: 05/25/2010 comments: Trench and plant red pine by weaving around residual stems. An exceptional amount of oak regen in south end of stand. Much is heavily broused but some is growing through.

Site Condition

Proposed Start Date: 6/3/2014

61052027.51 7.4 42290 - Natural Sawtimber 93 81-110 Harvest Clearcut with 42250 - Pine, Even-Aged No Mixed Pine Well Retention Oak Cut

Prescription --Patrick Ruppen: 05/25/2010 comments: Retain some oak and pine for mast and seed production and harvest remaining stems. Harvest

down to 2"dbh and require chipping to reduce slash load. Specs:

Next Step

Treatments:

Acceptable

Regen:

--Patrick Ruppen: 05/25/2010 comments: Ground lays good. Jack pine is old and declining but still in decent shape. Site looks to have a Other Comment: better site index and red pine looks pretty good. Next stand should consist of planted red pine/natural jack pine/oak/aspen and red maple.

Old next step comments: --Patrick Ruppen: 05/25/2010 comments: Changed to natural regen through Chapter 7

Site Condition

Traverse City Mgt. Unit

Report 3 -- Treatments

Compartment: 52	SAT OF N
Year of Entry: 2022	DNI

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	a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
Ī	31	61052031-Cut	22.0	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	r 96	111- 140	Harvest	Group Selection	4319 - Mixed Upland Forest	Uneven- Aged	No

Specs:

Prescription Harvest jack pine, aspen, and most red maple. Mark remaining stand/stems for crop tree release. Focus on removing most of the larger red and white pine but retain some for seed production and diversity. Release well formed oak as found in stand.

Monitoring, Natural Regen (Re-Inventory)

Next Step Treatments: Acceptable

Pine, maple, oak, aspen

Regen:

Other Focus on harvest should be to remove the declining jack pine and aspen. This stand has a multi-aged structure which will be maintained with this harvest. Remove most of the larger pine to release younger age classes. Comment:

81-110

Site Condition

Proposed Start Date: 10/1 /2021

61052048.35 Cut

23.6 42260 - Natural Pine, Mixed

Sawtimber 76 Well

Harvest

Clearcut with Retention

4211 - Planted Even-Aged Red Pine

No

Deciduous

Prescription Harvest to 1"dbh and plant red pine after harvest. Chip tops to reduce slash. Area retention in depressions.

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable planted red pine.

Regen:

Leave a half chain retention strip along road. Trespass with wood and stumps piled on state land. New pile back on powerline on state Other

Comment: land.

Site Condition

Proposed Start Date: 10/1 /2021

61052053.50 NF

2.0 3104 - Degraded Nonstocked

Unspec NonForestMgt ified

Other - Specify

3105 - Mixed Upland Herbaceous

Nο

Prescription Was seeded to annual rye for several years but was allowed to go fallow due to spending restrictions. Disk, plant to annual rye for several

Specs:

years and then convert to a pasture mix (i.e. clover/alfalfa) or appropriate native species.

Next Step

Treatments:

<u>Acceptable</u>

Regen: Other

Old next step comments: Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Comment:

Site Condition

Nο

Year of Entry: 2022 Habitat

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

58 61052058.49 3104 - Degraded Nonstocked NF

NonForestMgt Other - Specify 3105 - Mixed Upland

Compartment: 52

Herbaceous

Prescription Was seeded to annual rye for several years but was allowed to go fallow due to spending restrictions. Disk , plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) or appropriate native species. Specs:

Next Step **Treatments:**

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Acceptable Regen:

Other Old next step comments: Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

61052062.21 27.1 4126 - White, Sawtimber 96 81-110 Harvest Clearcut with 4211 - Planted Even-Aged No Black, N. Pin Oak Well Retention Red Pine Cut

Prescription Cut to 2" dbh and plant red pine after harvest. Stand 68 to east is to be harvested with this stand and is driving this treatment as it will

allow access to this stand (68). Specs:

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

<u>Treatments:</u> Regen(3yr)

Acceptable planted red pine

Regen:

Stand does not have enough quality or developed understory to manage for oak at this time. Consider motorcycle trail through stand. Other

Comment: Retain trees along trail.

Site Condition

Proposed Start Date: 3 /26/2020

61052063.48 3.6 3104 - Degraded Nonstocked Unspec NonForestMgt Other - Specify 3105 - Mixed No 63 NF ified Upland Herbaceous

Prescription Was seeded to annual rye for several years but was allowed to go fallow due to spending restrictions. Disk, plant to annual rye for several

years and then convert to a pasture mix (i.e. clover/alfalfa) or appropriate native species. Specs:

Next Step **Treatments:**

Acceptable

Regen: Other

Old next step comments: Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

61052068.26 10.6 4310 - Pine, Oak Sawtimber 76 81-110 Harvest Clearcut with 4319 - Mixed Even-Aged No Mix Well Retention Upland Forest Cut

Prescription Harvest to 1" dbh. Retain well formed oak and pine along motorcycle trail. Chip tops to prepare for planting

Specs:

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

<u>Treatments:</u> Regen(3yr)

Acceptable planted red pine

Regen:

Other Declining jp in this stand is reason for treatment at this time. Treating with art of stand 62 to west to allow access and enough volume to

Comment: justify treatment.

Site Condition

Report 3 -- Treatments

Compartment: 52 Year of Entry: 2022

Two-Aged

4319 - Mixed

Upland Forest

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Nο

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

Harvest

Group Selection

81-110

Prescription Remove most jack pine, aspen, and poorly formed oak/red maple. Attempt to protect and release well formed oak poles.

Sawtimber

Well

Specs:

S

t

71

Next Step Monitoring, Natural Regen (Re-Inventory)

21.2

4310 - Pine, Oak

Mix

Treatments:

61052071.29

Cut

Acceptable jack pine, oak, maple, white pine, red pine.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

73 61052073.34_ 41.2 42220 - Natural Poletimber 54 81-110 Harvest Clearcut with 330 - Low- No Cut Jack Pine Medium Retention Density Trees

Prescription harvest but retain scattered well formed oak, cherry and pine or pockets of pine.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable warm season grasses and forbs and oak

Regen:

Other maintain with periodic fire

Comment: WLD 4/28/2020: about 1/3 + of this stand has been burned at least twice for barrens management. Some is an MNFI identified High Quality

oak pine barrens. Also please retain mature black cherry and fruiting shrubs such as service berry and hawthorn. Please avoid rutting and

disturbance of ground cover.

Site Condition

Proposed Start Date: 10/1 /2021

82 61052082-NF 2.9 31022 - Warm Nonstocked Unspec NonForestMgt Herbaceous/Crop 31022 - Warm No Season Grass Ified /Grass Planting Season Grass

Prescription Remove woody encroachment when/if it becomes necessary. Seed in native barrens grasses and forbs. Get as close to local genotype as

Specs: possible.

Next Step Burn, Opening

Treatments:

Acceptable

Regen:

Other This stand in the future could act as a seed source using predominately west wind to disperse seeds to the east. At some point stand 85 to

Comment: the east should be thinned to barrens equivalent.

Site Condition

Report 3 -- Treatments

Compartment: 52 Year of Entry: 2022

Low Density Trees DNR DNR DNR

а **Treatment** Stand BA **Treatment** Treatment **Cover Type** Acres Stand Size Age Habitat n Density Method Objective Name CoverType Age Range Type Structure Cut d 3303 - Mixed 86 61052086-NF 42220 - Natural Poletimber 51-80 NonForestMgt **Brush Cutting** Nο

Prescription This is has been identified as part of a remnant oak pine barrens.

Jack Pine

Specs: Sele

Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Try to get as close to

local genotype as possible. Mulch plantings and protect with wire cages or tubex.

Poor

Next Step Burn, Opening

Treatments:

S

t

Acceptable Regen:

Other Consider seeding in local genotype native grasses/forbs, as well.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

 100
 61052100.39_
 66.0
 31022 - Warm
 Nonstocked
 Immatu
 Burn
 Opening
 31022 - Warm
 No

 Burn
 Season Grass
 re
 Season Grass
 Season Grass

<u>Prescription</u> Jack Pine Rd Oak Pine Barrens. Continue rotational burns as needed. Divide into several burn units to stagger burns over several years.

Specs: Treat for exotics as needed, particulary spotted knapweed along two tracks.

Next Step Burn, Opening

Treatments:

Acceptable Regen:

Other Comment:

Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Old next step comments: Possible seeding of native grasses and forbs. Try to use plants with locale genotype or as close as possible.

Could consult MNFI on what species.

Site Condition Conservation Values

Proposed Start Date: 10/1 /2020

10061052100-
Burn93.731022 - Warm
Season GrassNonstocked
reImmatu
BurnBurnOpening
Opening
re31022 - Warm
Season GrassNo

Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus

forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs,

planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Burn, Opening

Treatments:

Acceptable Keep open through regular burning

Regen: Other

Comment:

Site Condition Conservation Values

Report 3 -- Treatments

Compartment: 52 Year of Entry: 2022

Nο

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

117 61052117-NF 9.9 330 - Low-Density Nonstocked Trees

NonForestMgt **Brush Cutting** 3303 - Mixed Low Density Trees

Specs:

S

ŧ

Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food

and cover. Try to get as close to

local genotype as possible. Mulch plantings and protect with wire cages or tubex.

Next Step Treatments:

Acceptable Regen:

Consider seeding in local genotype native grasses/forbs, as well. Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Clearcut with 4222 - Natural 122 61052122.36 56.0 42220 - Natural Poletimber 76 51-80 Nο Harvest Even-Aged Cut Jack Pine Well Retention Jack Pine

Prescription Harvest merchantable trees. Require short-wood operation to retain tops for seed production. Retain scattered (1 tree/acre) well formed oak

and pine. Retention areas along orv trail as mapped. Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable jack pine, red pine, white pine, oak, maple, aspen,

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

123 61052123.47 2.3 3104 - Degraded Nonstocked Unspec NonForestMgt Other - Specify 3105 - Mixed No ified Upland NF Herbaceous

Prescription Was seeded to annual rye for several years but was allowed to go fallow due to spending restrictions. Disk , plant to annual rye for several

Specs: years and then convert to a pasture mix (i.e. clover/alfalfa) or appropriate native species.

Next Step **Treatments:**

Acceptable Regen:

<u>Other</u> Old next step comments: Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Comment:

Site Condition

Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 52 S Year of Entry: 2022 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 125 61052125.46 17 3104 - Degraded Nonstocked Unspec NonForestMgt Other - Specify 3105 - Mixed Nο Upland NF ified Herbaceous Prescription Was seeded to annual rye for several years but was allowed to go fallow due to spending restrictions. Disk , plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) or appropriate native species. Specs: Next Step Treatments: Acceptable Regen: Other Old next step comments: Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment. Comment: Site Condition Proposed Start Date: 12/30/1899 126 61052126.24 31.8 42210 - Natural Sawtimber 71 51-80 Harvest Overstory 4319 - Mixed Two-Aged No Red Pine Well Removal **Upland Forest** Cut Prescription remove most overstory to release advanced regeneration formed in understory after last harvest. Attempt to protect existing understory during harvest. Retain well formed oak and pine (10-20 ba) for seed and mast production. Consider proposed treatment to stand 122. May Specs: need to keep a portion of stand 122 at this time. Next Step **Treatments:** Acceptable oak, maple pine, aspen Regen: <u>Other</u> Comment: Site Condition Proposed Start Date: 10/1 /2021 131 61052131.42 84.0 330 - Low-Density Nonstocked Artificial 4211 - Planted Monitoring Even-Aged Nο Monitor Trees Regen(3yr) Red Pine Prescription Check survival. Surveyed 10/2018 after re-plant and herbicide. 35% mortality at that time. Specs: Next Step Treatments: Acceptable planted red pine

Regen:

Percent to Treat = 100% Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

42290 - Natural 4211 - Planted 26.0 Sawtimber Clearcut with 137 61052137.30_ 111-Harvest Even-Aged No Mixed Pine Well 140 Retention Red Pine Cut

Prescription harvest to 1'dbh and chip tops to prep site for planting. Plant red pine after harvest.

Specs:

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable planted red pine

Regen:

Other Consider retention strip along south edge. Treat with stand to east.

Comment:

Site Condition

Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 52 S Year of Entry: 2022 t а **Treatment** Acres Stand Size Stand BA **Treatment** Treatment **Cover Type** Age Habitat n Method **Objective** Structure Name CoverType Density Age Range Type Cut d 145 61052145.33 63.2 42290 - Natural Sawtimber 81-110 Harvest Clearcut 4211 - Planted Even-Aged No Red Pine Mixed Pine Well Cut Prescription Cut to 1" dbh and chip tops to prepare site for planting red pine after harvest. Specs: Pesticide, Aerial - Site Prep; Planting, Initial Plant Next Step Treatments: Acceptable planted red pine Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2021 146 61052146.25 42290 - Natural 88 51-80 4211 - Planted 35.8 Sawtimber Harvest Clearcut with Even-Aged No Mixed Pine Retention Red Pine Cut Prescription Harvest to 1'dbh. Chip tops to prepare site for planting. Plant red pine after harvest and site prep. Consider retention strip along north edge or look for possible retention pockets on edges. Treat with stand 145. Specs: Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant **Treatments:** Acceptable planted red pine Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2021 150 61052150.40 20.4 42141 - Planted Sapling Immatu Pesticide **ERROR** 42111 - Planted Even-Aged No Mixed Pine, Mixed Red Pine, Poor Spray re Deciduous Mixed Deciduous

<u>Prescription</u> good pine survival but significant cherry competition

Next Step ; Monitoring, Direct Seeding

Treatments:

Acceptable planted red pine, white pine, jack pine, aspen, red maple, oak

Regen:

Specs:

Other Percent to Treat = 100%

Comment:

Site Condition

Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 52 S Year of Entry: 2022 t а **Cover Type Treatment** Acres Stand Size Stand BA **Treatment Treatment** Age Habitat n CoverType Density Method Objective Structure Name Age Range Type Cut d ERROR 4122 - Oak, Pine Even-Aged 153 61052153.41_ 79.1 42111 - Planted Sapling Immatu Pesticide No Red Pine, Mixed Poor **Spray** re Deciduous Prescription Regen survey 2018. Pine growing well but significant competition from cherry. Specs: Next Step ; Monitoring, Herbicide Use Treatments: Acceptable red pine, jack pine, white pine, oak, red maple, aspen. Regen: <u>Other</u> Percent to Treat = 100% Comment:

Total Treatment 826.1 Acreage Proposed:

Proposed Start Date: 2 /28/2020

Site Condition

Compartment: 52

Traverse City Mgt. Unit

Pat Ruppen: Examiner Year of Entry: 2022

Availa	ability for	Managemer	nt													
Total	Acres	Acres Avail	Acres	De	omina	nt Site	Conc	ditions	5							
Acres	Available	With Condition	Not Available		2B	4A	5B	5C	1C	2F	2G	2H	ЗА	3D	3J	5E
150	134	16	0	Aspen				16		0			0	0		
11	10	0	1	Bare/Sparsely Vegetated						1						
23	0	0	23	Cedar							23					
193	30	0	163	Herbaceous Openland					6		0		157	0		
324	277	36	11	Jack Pine		0	0	36					1			10
103	103	0	0	Low-Density Trees												0
38	0	0	38	Lowland Aspen/Balsam Poplar							9			29		
61	0	0	60	Lowland Conifers							20	0			41	
34	0	0	34	Lowland Mixed Forest			0				29				5	
44	0	0	44	Lowland Shrub						1	42				1	
261	56	170	35	Mixed Upland Deciduous		42	57	70		0	0	31	0	0	4	
477	292	119	67	Natural Mixed Pines			61	58		44	2	0	0	0	18	3
11	2	0	9	Northern Hardwood								9				
355	50	202	103	Oak	5		94	103		39	0	52			11	
84	84	0	0	Planted Mixed Pines				0					0		0	
433	306	127	0	Red Pine		0	100	27						0		
15	6	0	9	Upland Conifers							0	9			0	
361	140	167	54	Upland Mixed Forest	25	3	133	6		23	1	0		13	17	
3	3	0	0	Upland Shrub												
22	22	0	0	Urban			0									
5	5	0	0	Water								0		0		
29	10	18	1	White Pine			7	11							1	
3,039	1,531	855	653	Total Forested Acres	31	45	452	327	6	107	126	101	158	42	98	14
	50%	28%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Co	omments:						
00	omments.						

Traverse City Mgt. Unit

Pat Ruppen: Examiner

	exceptional site quality					
	this stand in treatment to west. attered oak and pine marked.	Similar o	cover with oak overstory a	and white pine growing in.	Stand has been marked ir	n past but sale not
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of barrens mar	nagement area ERA. Retain at	this time	as the area will be expar	nded on the SE corner this	entry.	
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Keep this stand as v	visual break along supply road	as adjace	ent stands are managed.			
Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	2F: Too steep	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	2F: Too steep	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
	Available comments: cart of barrens mar Available comments: deep this stand as a Unavailable comments: Unavailable comments: Unavailable comments:	Available SC: Delay treatment for age/size class diversity or exceptional site quality comments: art of barrens management area ERA. Retain at Available SC: Delay treatment for age/size class diversity or exceptional site quality comments: deep this stand as visual break along supply road Unavailable SE: Long-Term Retention comments: Unavailable 2F: Too steep comments:	Available 5C: Delay treatment for 16 age/size class diversity or exceptional site quality comments: art of barrens management area ERA. Retain at this time Available 5C: Delay treatment for 12 age/size class diversity or exceptional site quality comments: deep this stand as visual break along supply road as adjace Unavailable 5E: Long-Term Retention 10 comments: Unavailable 2F: Too steep 22 comments:	Available 5C: Delay treatment for age/size class diversity or exceptional site quality formments: Part of barrens management area ERA. Retain at this time as the area will be expansed by the age/size class diversity or exceptional site quality Available 5C: Delay treatment for 12 Unspecified age/size class diversity or exceptional site quality Formments: Reep this stand as visual break along supply road as adjacent stands are managed. Unavailable 5E: Long-Term Retention 10 Unspecified Formments: Unavailable 2F: Too steep 22 Unspecified Formments: Unavailable 2F: Too steep 18 Unspecified	Available 5C: Delay treatment for age/size class diversity or exceptional site quality comments: art of barrens management area ERA. Retain at this time as the area will be expanded on the SE corner this Available 5C: Delay treatment for age/size class diversity or age/size class diversity or exceptional site quality comments: eep this stand as visual break along supply road as adjacent stands are managed. Unavailable 5E: Long-Term Retention 10 Unspecified Unspecified comments: Unavailable 2F: Too steep 22 Unspecified Unspecified comments:	Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: art of barrens management area ERA. Retain at this time as the area will be expanded on the SE corner this entry. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: eep this stand as visual break along supply road as adjacent stands are managed. Unavailable 5E: Long-Term Retention 10 Unspecified Unspecified Unspecified Comments: Unavailable 2F: Too steep 22 Unspecified Unspecified Unspecified Unspecified Comments: Unavailable 2F: Too steep 18 Unspecified Unspecif

Traverse City Mgt. Unit

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8	Unavailable	2F: Too steep	11	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
9	Available	5B: Maintain for regeneration purposes	57	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Understory planted	with red pine. Let new age dev	elop furth	ner before trying to reduc	e canopy density.		
10	Available	5B: Maintain for regeneration purposes	146	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Let new age class	develop before reducing oversto	ory.				
11	Unavailable	2F: Too steep	11	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
13	Unavailable	3A: Conservation Values incompatible with harvest at this time	158	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Oak-Pine barrens l	EO ID 12308Carpenter Creek N	orth and S	South			

Traverse City Mgt. Unit

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14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Adjacent stand to e	east recently harvested.					
15	Unavailable	1C: Other dept or div proc/practices	6	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
	Comments: Shooting Range						
16	Available	5B: Maintain for regeneration purposes	50	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	23	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
19	Available	5B: Maintain for regeneration purposes	52	Unspecified	Unspecified	Unspecified	Unspecified
l	Comments: Let advanced unde emoved.	erstory develop before attemptin	g to red	uce canopy density. exces	ssive damage to younger ag	e class would occur at his	s time if overstory

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20	Unavailable	2F: Too steep	4	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
	comments: a portion of this are	ea is located inside the following	ERAC	Dak-Pine barrens EO ID 12308	Carpenter Creek North	and South	
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

Compartment: 52

Traverse City Mgt. Unit

Pat Ruppen: Examiner Year of Entry: 2022

25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
26	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retain at this time	for diversity and habitat. Wildlif	e passa	ge area along drainage. 🛭	Adjacent areas recently har	vested and planted.	
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Allow newly plante	d stand on east side to develop	before h	narvesting and planting thi	is stand.		

Compartment: 52

Traverse City Mgt. Unit

Pat Ruppen: Examiner Year of Entry: 2022

31	Unavailable	3D: Recreational / Scenic values	29	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
33	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Allow advanced un	derstory to develop before tryin	g to red	uce canopy density.			
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
A	Comments: Adjacent areas red Idjacent stands ha	ently harvest and small acreage eve grown in.	e that wo	ould not have sufficient volu	ume for stand alone harves	t. May harvest in future w	rith another stand afte
35	Available	4A: No Markets Available for these Forest Products	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: .ow volume an acı	reage. Not merchantable as sta	nd alon	e treatment. May be able t	o treat in future with adjace	ent stand.	
	Unavailable	3J: Water quality / BMPs	13	Unspecified	Unspecified	Unspecified	Unspecified
36		(stream, river, or lake)					

Traverse City Mgt. Unit

Compartment: 52 Year of Entry: 2022 Pat Ruppen: Examiner

37	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
38	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Blocked by Creek	and private ownership.					
39	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Allow younger red	maple and pine component to g	row into r	merchantable size before	e harvesting		
10	Available	5B: Maintain for regeneration purposes	32	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Most rm is poles/s	sapling and much is not merchar	ntable at t	his time. Let younger ag	e put on growth before har	vesting.	
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stocking is fine at	this time and trees have room to	grow. L	et stand grow additional	volume and let understory	develop.	
12	Available	4A: No Markets Available for these Forest Products	43	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: ow volume of mer	chantable product. Barrens area	a				

Traverse City Mgt. Unit

Pat Ruppen: Examiner

43	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified		
	Comments: Blocked by Creek and private ownership.								
44	Unavailable	3D: Recreational / Scenic values	13	Unspecified	Unspecified	Unspecified	Unspecified		
	Comments: Low volume for me	erchantable trees and trails throu	ugh stand	I. Let stand develop and	d put on more volume				
45	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified		
(Comments:								
46	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	30	Unspecified	Unspecified	Unspecified	Unspecified		
(Comments:								
47	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	45	Unspecified	Unspecified	Unspecified	Unspecified		
(Comments:								
48	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified		
(Comments:								

Traverse City Mgt. Unit

Pat Ruppen: Examiner

49	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Let oak understory	develop before harvest. Small	stand	that would be better harvested	with stand 85 to north v	when it is ready.	
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
51	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
52	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
53	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
54	Unavailable	2F: Too steep	16	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
C	Comments:						
55	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

Traverse City Mgt. Unit

Pat Ruppen: Examiner

56	Available	2B: Unknown if access through adjacent landowner(s) is possible	21	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
57	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
58	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
59	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
60	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: etained for visual	break along supply road and for	age clas	s diversity/habitat adjace	ent to recently planted sites	s.	
61	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Larger than averag	ge natural looking pine along rive	er corrido	r. Retain for now and let	understory develop.		

Traverse City Mgt. Unit

Pat Ruppen : Examiner

62	Available	5B: Maintain for regeneration purposes	31	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Mixed ages due to	two harvests on this stand. You	unger age	e classes need to grow in	n before this stand is harves	ted.	
63	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
:		able due to steep areas. Best s of this stand if adjacent stand			ong drain and to let understo	ry to grow through as jack	pine declines. May be
64	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	2F: Too steep	Unspecified	Unspecified	Unspecified
(Comments:						
65	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2F: Too steep	3D: Recreational / Scenic values	Unspecified	Unspecified
	Comments: Steep ground along	g river with trail influence. Acces	ss is also	limited.			
66	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: With current water	levels this stand would be too v	vet to har	vest.			
67	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Larger than averag	e natural looking pine along rive	er corrido	r. Retain for now and le	t understory develop.		

Mgt. Unit

Compartment: #Type! Year of Entry:

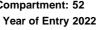


Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Traverse City Mgt. Unit Compartment: 52





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 conditions stocked trout populations and those of other coldwater fish spectronditions 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	cies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions and those of other coldwater fish spective 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.	cies (e.g., slimy sculpin) to persist from ese conditions due to substantial
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, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spapproved distance from the river centerlines. The Natural River most Natural Rivers. The Vegetative Buffer ranges from 25 to 1 and Vegetative Buffers for each Natural River see the table located folder.	s Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of identified as Element Occurrences (EOs) by the Michigan Natural context of their natural community classification system. Element (Excellent) or B (Good) and a Global (G) or State (S) element (rathreatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations managed for restoration and maintenance of natural ecological submit recommendations for lands as ERAs using the DNR Corrections.	al Features Inventory (MNFI) within the nt Occurrences with viability ranks of A arity) ranking of endangered (1), y may be located upon any ownership in of natural community types that are processes and values. The public may

12 96

Compartment: 52 Year of Entry: 2022



Stand	l lovel 4.0	avar Tura	c	ize De	. maitu	Aaraa	Ctond Age D	A Dange	Managad	2:40	General Comments
Stant		over Type				Acres	Stand Age B		Managed S	oite	
1	4131 - A	Aspen, Oak	Po	oletimb	er We	II 6.8	32	51-80	N/A		2020: Oak/pine overstory with aspen poles/saps growing through. Looks
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	like all or most oak was left in last harvest so oak is mixed sizes. Aspen regen in gaps. Let stand grow in. 2010FMD: 21 yr old aspen cut with
	Red Oak	5	Log	12	111	W	hite Pine	Low	5 - 10 feet	Sapling	oak pine reserves. Part of old o1 stand seperated that was the lower
	White Oak	15	Log/Pole	12	111	Bla	ick Cherry	Low	5 - 10 feet	Sapling	ground. This stand classified as upland.
	Quaking Aspen	20	Sapling/Pole	4							
	Bigtooth Aspen	50	Pole/Sapling	5	32						
	White Pine	5	Pole	8							
	Red Maple	5	Sapling/Pole	4							
2	6112 - Lo	wland Aspe	n Sa	awtimb	er We	II 8.8	62	1-50	N/A		2020: Aspen is starting to drop out of stand. Balsam polplar saplings coming in under. This stand is pretty wet under current water levels.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	Would be hesitant to harvest but the stand is ready for that. Stand looks
	Red Oak	5	Pole	8			ag Alder	Medium	< 5 feet	Tall Shrub	to be older that last estimate. Likely around 60. 2010 FMD: Low aspen -
	White Oak	10	Pole	8		merican H	ighbush Cranbe	erry Low	< 5 feet	Tall Shrub	hummocky ground and rutted from last harvest. Aspen/wo/red oak wp/rp/bf. Looks like age around 30-35?
	Quaking Aspen	35	Log/Pole	10	62	Bals	sam Poplar	Medium	5 - 10 feet	Sapling	wp/ip/bi. Looks like age around 50-55?
	Bigtooth Aspen	30	Log/Pole	10	62						
	Balsam Fir	3	Pole/Sapling	5							
	White Pine	5	Pole/Sapling	6							
	Red Pine	2	Pole	8							
	Balsam Poplar	10	Pole/Log	9							
3	4130	- Aspen	Po	oletimb	er We	II 5.0	46	51-80	N/A		2020: Well stocked aspen poles with oak and pine. Let stand grow in
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	volume. 2010: Similar to pre-inv stand 2 but upland and less pine /oak in mix.
	Red Oak	5	Pole	8		W	hite Pine	Low	< 5 feet	Sapling	
	White Oak	5	Pole	8							
	Quaking Aspen	35	Pole	7	46						
	Bigtooth Aspen	43	Pole	7	46						
	Balsam Fir	2	Sapling	4							
	White Pine	5	Pole/Sapling	6							
	Balsam Poplar	5	Pole	7	46						
4	4129 -	Mixed Oak	Sa	awtimb	er We	II 10.7	120	81-110	N/A		2020: Stand looks alright. 2000FMD Too steep. O8 2010FMD; Steep
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	slope along road. Oak with wp poles growing through.
	Red Maple	15	Log/Pole	12		R	ed Maple	Low	10 - 20 feet	Sapling	
	Red Oak	25	Log	16		W	hite Pine	Medium	>20 feet	Sapling	
	White Oak	35	Log	13	120	F	Red Oak	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	7	Log	10		V	hite Oak	Low	5 - 10 feet	Sapling	
	White Pine	15	Pole/Log	9				,		•	

Red Pine

3

Log



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	BA Range	Managed S	iite	General Comments
5	4310 - Pi	ne, Oak Mix	x	Sawtimb	er Well	13.4	86	111-140	N/A		2020: Could mark this stand to remove lower quality stems, get the
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	aspen and jp out and crown release the better quality oak. Concerns over visual impact next to campground and snowmobile trail. Would not
	Red Maple	10	Pole/Log	9			ed Maple	Low	10 - 20 feet	Sapling	be much volume. Would have to go with nearby treatment. Not high
	Red Oak	5	Log/Pole	13		Ва	lsam Fir	Low	5 - 10 feet	Sapling	priority. 2000FMD W5. 2010.FDD: includes O/I stand 98 (aged 60) and
	White Oak	15	Log/Pole	13	111	Wh	nite Pine	Low	10 - 20 feet	Sapling	part of 70 which has age 47. Mix of wp/rp/oak/aspen/rm-mixed ages between 55-85. Some jp 85. Older oak scattered about.
	Quaking Aspen	5	Log/Pole	10		Blac	ck Cherry	Low	< 5 feet	Sapling	between 33-03. Some jp 03. Older oak scattered about.
	Bigtooth Aspen	10	Log	12	86						
	White Pine	47	Log/Pole	11	86						
	Red Pine	3	Log/Pole	10	76						
	Jack Pine	5	Log/Pole	10	66						
6	42110 - Pla	nted Red P	ine	Poletimb	er Well	10.3	48	201+	N/A		2020: This stand should be row thinned. Rows are not clear and will
	Canopy Species	% Cover	Size Class	DBH	l Age						need to be marked. Cut out other species as possible. Average ba is 215. Trees may become stagnant and are losing growth. 2000FMD
	White Oak	3	Log/Pole	12	111						scattered open grown jp oak, bc2010FMD: Red pine is overstocked and
	Bigtooth Aspen	3	Log/Pole	10							risks becoming stagnant. 1-3 sticks right now and tight spacing in rows.
	Red Pine	88	Pole	7	48						Spacing between rows looks alright. Scattered oak .jp and aspen. Pine in campground to west is same age but much better diameter and height
	Jack Pine	2	Log/Pole	10							due to lower stocking. Looks like it could be a chip job and rows would
	Black Cherry	2	Pole	8							need marked. Could treat with stand to north if that is done.
	White Pine	2	Log	13							
7	42110 - Pla	nted Red P	ine Po	oletimbe	Mediun	n 4.7	48	51-80	N/A		2000FMD: Schecks state forest campground. W7 2010FMD: Scattered
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	large wp and oak with planted rp. A little spruce along river.
	Red Oak	10	Log	16	111	Re	d Maple	Low	5 - 10 feet	Sapling	
	White Pine	15	Log	12	111	Wł	nite Pine	Low	5 - 10 feet	Sapling	
	Red Pine	70	Pole/Log	9	48						
	Norway Spruce	5	Log	14							
8	4126 - White, I	Black, N. Pi	in Oak	Poletimb	er Well	17.7	120	51-80	N/A		2020: Mix of oak logs and poles. More in pole size but logs mixed in.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stocking is on the low end. Poor regeneration success after last harvest. Heavy browsing. Cherry has advanced. Could just let this
	Red Oak	20	Pole/Log	9		Re	d Maple	Low	10 - 20 feet	Sapling	stand grow in or consider harvesting south of the gasline road along with
	White Oak	45	Log/Pole	10	120	Bigto	oth Aspen	Low	5 - 10 feet	Sapling	stand 11 and planting red pine. The snowmobile trail passes through
	White Pine	20	Pole	8		Wh	nite Pine	Low	5 - 10 feet	Sapling	stand north of there and there is also a trail on the east edge (horse trail). FMD 2000: J5O7O4W4A4 leave oak and pine residual for visual
	Red Pine	5	Log/Pole	12	96	Rlad	ck Cherry	Medium	5 - 10 feet	Sanling	management. Dressriped to sut in 2010 FMD: Leaks like some

Medium

Low

Low

5 - 10 feet

< 5 feet

< 5 feet

management. Prescribed to cut jp. 2010 FMD: Looks like same treatment as stand to south but more oak and pine residual. Some log

size oak and poles retained. Light aspen regen under this stand.

Sapling

Sapling

Sapling

Red Pine

Red Maple

Log/Pole

Pole/Log

5

10

96

Black Cherry

White Oak

Red Oak

12

8



Stan	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed	Site	General Comments
9	4130	- Aspen	,	Sapling N	/ledium	7.0	17 I	mmature	N/A		2019: Mixed aspen clones. A little BAM. Some scatter retention from last harvest. Good stocking but patchy. Good growth TS# 035-02. TCR
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	2005. 2010: Stand swapped from Non-Forested to Forested. 2010FMD
	Red Maple	10	Sapling	3	17	W	hite Pine	Low	5 - 10 feet	Sapling	2010FMD: Stand harvested with a little residual wp/rm. Aspen regen is
	Quaking Aspen	65	Sapling	3	17						good in spots-a bit patchy.
	Bigtooth Aspen	20	Sapling	3	17						
	Balsam Poplar	5	Sapling	2	17						
10	310 - Herbac	eous Open	land	Nonsto	cked	3.1	U	nspecified	No		
11	4191 - Mixed Upl Co	and Decidu	ous with	Sawtimb	er Well	7.9	71	1-50	N/A		2020: Patchy aspen regen after last harvest. Lilely cut around 2015. Low stocked stand and regeneration is being broused heavily especially
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	oak and maple. Cherry has advanced and some aspen patches. Consider CC and plant red pine with part of stand 8 to north. FMD 2000:
	White Oak	45	Log/Pole	11	71	Re	ed Maple	Low	5 - 10 feet	Sapling	J50704W4A4 leave oak and pine residual for visual management.
	White Pine	35	Log/Pole	11		Bigto	ooth Aspen	Low	>20 feet	Sapling	Prescribed to cut jp. 2010: Cut aspen/rm and jp in last treatment. Left
	Black Cherry	10	Pole	8		Bla	ck Cherry	Low	5 - 10 feet	Sapling	oak and wp poles. Pretty good aspen regen but a little patchy.
12	6112 - Lo	wland Aspe	n	Sawtimb	er Well	29.1	73	51-80	N/A		2020: Aspen is declining. Stand is wet in places but it may be possible to harvest dry areas and most if frozen or dry. Mix of upland and lowland
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	with all the edges. Clumps of planted spruce and red pine should be left
	Paper Birch	5	Log/Pole	10		Bla	ck Cherry	Low	5 - 10 feet	Sapling	if harvested. Some red pine planted on higher ground edges. Aspen on
	Quaking Aspen	38	Log/Pole	11	73	T	ag Alder	Medium	10 - 20 feet	Tall Shrub	piece south of river is land-locked and the aspen is falling out. Piece
	Bigtooth Aspen	10	Log/Pole	11	73						north of trail camp is red pine/ aspen mix and is on drier ground. 2000FMD Potential or designated old growth. P5 Old O/I stand 95 was
	White Pine	5	Log/Pole	12							47 yr old rp west of campground. May be part of this stand. 2010FMD:
	Black Cherry	10	Pole	8							Lower areas along river. a few pockets of norway spruce planted.
	Norway Spruce	2	Log	12							
	Red Maple	5	Log/Pole	10							
	Balsam Poplar	7	Log	12							
	White Oak	5	Log	12							
	Red Oak	1	Log	12							
	Red Pine	10	Log	11							
	Jack Pine	2	Log/Pole	10							
13	4129 - 1	Mixed Oak		Sawtimb		11.4	122	81-110	N/A		2020: Lower quality oak of mixed sizes with wp/rp. Wp saplings under growing through. Factor limit stand due to river, recreation use, terrain,
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	access. 2000FMD: From O/I stand 75 O7O4 Recreational site influence.
	Red Maple	15	Pole	8			ed Maple	Low	10 - 20 feet	Sapling	From O/I stand 73 A4A7O7O4M4. Stand borders wild and scenic river.
	Red Oak	30	Log	12	122	W	hite Pine	Medium	>20 feet	Sapling	Stands 18,pars of 14 and 17 were hooked in O/I. Aspen is likely aged species. 2010FMD: Oak poles and logs from sprouts with aspen /wp
	White Oak	30	Log	12	122						and rm grown in .
	Bigtooth Aspen	8	Log	14	96						-
	White Pine	15	Log/Pole	11	76						
	Red Pine	2	Log	11							

Report 7 - Stands



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age I	BA Range	Managed S	ite	General Comments
14	500 -	Water		Nonsto	cked	5.5	ι	Jnspecified	No		Drainage
15	330 - Low-[Density Tre	es	Nonsto	cked	8.9			No		Schecks Trail Camp.
16	42260 - Natural Pir	ne, Mixed D	Deciduous	Sawtimb	er Well	16.1	100	81-110	N/A		2019: Stand looks fine. Factor limit due to slopes and river. 2000FMD:
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	From O/I stand 74 M5W7O7R7 CONVERTING TO RM. Recreational site influence. Comments from O/I stand 73 A4A7O7O4M4. Stand
	Red Maple	10	Log/Pole	12		Re	ed Maple	Low	>20 feet	Sapling	borders wild and scenic river. Stands 18,pars of 14 and 17 were hooked
	Red Oak	10	Log	14		WI	nite Pine	Low	10 - 20 feet	Sapling	in O/I. Aspen is likely aged species. 2010FMD: Steep slope along
	White Oak	10	Log	14							¹ river. Mix of pine oak aspen.
	Bigtooth Aspen	8	Log/Pole	12							
Nor	thern White Cedar	2	Log	12							
	White Pine	35	Log	13	100						
	Red Pine	25	Log	13	100						
17	4199 - Other Mixed		eciduous Size Class	Sawtimb DBH	er Well Age	6.2	101	111-140	N/A		2019: Stand access is blocked by Boardman River and Carpenter Creek. Remote Call. 2000FMD: Recreational site influence. A4A7O7O4M4. Stand borders wild and scenic river. Stands
	Red Maple	20	Log/Pole	10							18,pars of 14 and 17 were hooked in O/I. Aspen is likely aged species.
	Red Oak	20	Log	14	101						
	Bigtooth Aspen	37	Log/Pole	12	101						
	White Pine	10	Pole/Log	9							
	Balsam Fir	5	Pole	8							
Nor	thern White Cedar	3	Log/Pole	12							
	White Oak	5	Log/Pole	12							
18	4126 - White, E			Sawtimb		29.6	122	81-110	N/A	0:	2020: Considerable white pine understory growing through older low quality oak. Access blocked by river and private land. Consider reducing
	Canopy Species Red Maple	% Cover	Size Class Pole/Sapling		Age		nopy Species ed Maple	Low	Avg. Height	Size	oak canopy if access is possible. 2000FMD Potential or designated old
	Red Oak	10		,	122		hite Pine	Medium	10 - 20 feet	Sapling	growth, O7O4. 2010 FMD: Combination of O/I stands 80 and 105. 2010FMD: Older oak logs and poles with some older pine scattered
	White Oak	20	Log/Pole	13		VVI	ille Fille	iviedium	10 - 20 leet	Sapling	about but also some rp and wp age 70. Jp age 85. White pine growing
	White Pine	50 10	Log/Pole Log/Pole	13 12	122 81						in under and some rp poles. Wp regen is thick in places.
	Red Pine	5	Log/Pole Log/Pole	10	81						
	Jack Pine	5	Log/Pole	10	96						
19	790 - Other Bare/		-	Nonsto		4.9	l	Jnspecified	No		Utility Easement



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
20	4126 - White, I	Black, N. Pi	n Oak	Sawtimb	er Well	13.5	122	51-80	N/A		2020: Lower quality oak with some JP and larger wp in pockets. WP
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	poles growing through. Issues with hill climbing may still be persisting. Horse trail crosses stand. Mix of oak poles and small logs with older
	Red Oak	25	Log/Pole	13	122	WI	nite Pine	Low	>20 feet	Sapling	wolfy trees. Slopes limit management on most of this stand. Let stand
	White Oak	50	Log/Pole	13	122	Ja	ck Pine	Low	>20 feet	Sapling	develop and wp poles grow in. 2010:merge betweenO/l stand 76 and
	White Pine	15	Log/Pole	10	53						105. South part was 42 yr old aspen and north was 111 yr old oak. Stand is on steep slope2010FMD: Low density poor quality pole/log sized
	Jack Pine	10	Pole	8	53						oak sprouts with wp poles. Some better stocking and lower on west side but steeper slope. East side is more gentle slope.
21	42290 - Nati	ural Mixed F	Pine	Poletimb	er Well	17.8	106	51-80	N/A		2020: TS sold . CC with retention. plant rp after harvest. 2000FMD
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Area has scattered pockets of upland brush and very small openings. 2010FMD: Older jp-low stocking in general. Some oak,wp,bc and jp poles
	Red Maple	8	Pole	8		WI	nite Pine	Low	>20 feet	Sapling	grown in. Some scattered oak and white pine logs.
	White Oak	15	Pole/Log	9		Ja	ck Pine	Low	>20 feet	Sapling	
	White Pine	20	Log/Pole	12	76						-
	Red Pine	2	Log	12	76						
	Jack Pine	50	Pole/Log	9	106						
	Black Cherry	5	Pole	8							
22	4130	- Aspen		Sawtimb	er Well	3.2	53	81-110	N/A		2010: Sold TS. CC with retention. Aspen dropping out, 2000FMD A4 2010FMD: Aspen looks prime to cut and regenerate. Would expand a
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	bit. Big scattered wp/rp and oak with the 42 yr old aspen clone grown
	Red Maple	5	Pole	8		Re	d Maple	Low	10 - 20 feet	Sapling	in.
	Red Oak	5	Log	14		WI	nite Pine	Low	10 - 20 feet	Sapling	
	White Oak	5	Log	14							
	Bigtooth Aspen	75	Log/Pole	10	53						
	White Pine	5	Log	16	111						
	Red Pine	2	Log	16	111						
	Jack Pine	3	Pole/Log	8	96						
23	310 - Herbac	eous Open	land	Nonsto	cked	1.3	U	nspecified	No		
24	42220 - Nat			Poletimb		7.4	59	51-80	N/A		2000FMD Area has scattered pockets of upland brush and very small openings. 2010FMD: Younger jp (48) with some older white oak and
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	white pine.
	White Oak	10	Log/Pole	12	96		nite Pine	Low	5 - 10 feet	Sapling	
	White Pine	10	Log/XLog	14	96	Blad	ck Cherry	Low	5 - 10 feet	Sapling	
	Jack Pine	80	Pole/Log	8	59						



Stand	Level 4 C	over Type	;	Size De	ensity	Acres Stand Age B	A Range	Managed S	Site	General Comments
25	42220 - Nat	tural Jack P	ine P	oletimb	er Well	32.7 76	51-80	N/A		2019 stand has been sold. jp is declining. TS# 040-16. Clearcut with
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	retention and plant red pine 2000FMD J6 2010FMD: Jack pine is in decent condition and form. Scattered rp in stand has much better size
	White Oak	5	Log	12	122	White Pine	Low	5 - 10 feet	Sapling	and form. Checked rp age 62 - 14" dia. Jp avg diameter is 8-10. An
	Red Pine	2	Log	12	76	Black Cherry	Low	5 - 10 feet	Sapling	exceptional amount of oak regen in south end of stand. Much is badly
	Jack Pine	90	Pole/Log	9	76	Northern Pin Oak	Medium	5 - 10 feet	Sapling	broused but some is growing through.
	White Pine	2	Log	12	76	White Oak	Medium	5 - 10 feet	Sapling	
	Black Cherry	1	Pole	8			1			
26	6128 - Lowland Dec	Coniferous iduous	, Mixed P	oletimb	er Well	6.1 82	51-80	N/A		2020 Balsam with RM and BS. Wet areas with Tag Alder. 2000FMD E4A7E7. Heavy rm reproduction. Potential or designated old growth.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	2010FMD: Creek drain along west side. Spruce /fir mix/deciduous. Wet spots with tag alder
	Red Maple	20	Pole/Log	8	82	Red Maple	Medium	5 - 10 feet	Sapling	opoto with tag alder
	Quaking Aspen	10	Log	11	82	Balsam Fir	Medium	5 - 10 feet	Sapling	
	Bigtooth Aspen	5	Log	12		Black Spruce	Medium	5 - 10 feet	Sapling	
	Balsam Fir	35	Pole	7	82	Tag Alder	Low	5 - 10 feet	Tall Shrub	
	Black Spruce	15	Pole/Log	8						•
No	rthern White Cedar	10	Log	13						
27	42290 - Nati			awtimb		9.3 93	81-110	N/A		2020: Stand was marked for a small sale harvest (seed tree) but no bids. Access is difficult and possibly /not practical for so little acreage.
	Canopy Species		Size Class		l Age	Sub-Canopy Species	Density	Avg. Height	Size	Snowmobile trail is on private property quickly so a landing would have to
	Red Maple	5	Pole/Sapling	6	444	Red Maple	Low	10 - 20 feet	Sapling	be punched in off the county road. JP and aspen are falling out of stand. Little understory development. 2000FMD J4R4A4 Potential or
	White Oak	2	Log/Pole	14	111	Balsam Fir	Low	10 - 20 feet	Sapling	designated old growth. 2010FMD: Mix of jp/rp/aspen. State Land posted
	Quaking Aspen	5	Pole/Sapling	8	00	White Pine	Low	10 - 20 feet	Sapling	along road. Ground lays good. Jack pine is old and declining but still in
	Bigtooth Aspen	15	Log/Pole	10	93	Red Pine	Low	10 - 20 feet	Sapling	good shape. Site looks to have a better site index and red pine looks pretty good.
	Red Pine	30	Log/Pole							
			"	10	93					protty good.
	Jack Pine	43	Pole/Log	10	93					protty good.
28	4122 -	Oak, Pine	S	8 Sawtimb	93 er Well	12.1 110	81-110	N/A		2020: Oak logs with JP/WP poles/logs. Most is White Oak. Some old
28		Oak, Pine		8 Sawtimb	93	Sub-Canopy Species		N/A Avg. Height	Size	2020: Oak logs with JP/WP poles/logs. Most is White Oak. Some old pine mixed with oak canopy. More wp saps and poles in N end and ground becomes less flat. South end of stand is flat and would be easy
28	4122 -	Oak, Pine	S	8 Sawtimb	93 er Well			Avg. Height 10 - 20 feet	Sapling	2020: Oak logs with JP/WP poles/logs. Most is White Oak. Some old pine mixed with oak canopy. More wp saps and poles in N end and ground becomes less flat. South end of stand is flat and would be easy to plant and manage as plantationbut not a large area. May be best to
28	4122 - Canopy Species	Oak, Pine	Size Class	8 Sawtimb	93 er Well	Sub-Canopy Species	Density	Avg. Height	Sapling Sapling	2020: Oak logs with JP/WP poles/logs. Most is White Oak. Some old pine mixed with oak canopy. More wp saps and poles in N end and ground becomes less flat. South end of stand is flat and would be easy to plant and manage as plantationbut not a large area. May be best to just let this be a oak /pine flat adjacent to these low areas. Oak will
28	4122 - Canopy Species Red Oak	Oak, Pine % Cover 10	Size Class	8 Sawtimb	93 er Well	Sub-Canopy Species Red Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	2020: Oak logs with JP/WP poles/logs. Most is White Oak. Some old pine mixed with oak canopy. More wp saps and poles in N end and ground becomes less flat. South end of stand is flat and would be easy to plant and manage as plantationbut not a large area. May be best to just let this be a oak /pine flat adjacent to these low areas. Oak will remain in stand and wp will grow in as jp fall out. 2000FMD Potential or
28	4122 - Canopy Species Red Oak White Oak	Oak, Pine Cover 10 50	Size Class Log Log/XLog	8 Sawtimb DBH 14 16	93 er Well	Sub-Canopy Species Red Maple Balsam Fir	Density Low Low	Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	2020: Oak logs with JP/WP poles/logs. Most is White Oak. Some old pine mixed with oak canopy. More wp saps and poles in N end and ground becomes less flat. South end of stand is flat and would be easy to plant and manage as plantationbut not a large area. May be best to just let this be a oak /pine flat adjacent to these low areas. Oak will remain in stand and wp will grow in as jp fall out. 2000FMD Potential or designated old growth. O4O7J4 jp site index better represents site. 2010FMD: older oak/wp/rp/jp with wp poles growing in. Ridge and slope
28	4122 - Canopy Species Red Oak White Oak White Pine	Oak, Pine % Cover 10 50 15	Size Class Log Log/XLog Log	8 Sawtimb DBH 14 16 14	93 er Well 1 Age 110	Sub-Canopy Species Red Maple Balsam Fir White Pine	Low Low Low	Avg. Height 10 - 20 feet 10 - 20 feet Variable	Sapling Sapling Sapling	2020: Oak logs with JP/WP poles/logs. Most is White Oak. Some old pine mixed with oak canopy. More wp saps and poles in N end and ground becomes less flat. South end of stand is flat and would be easy to plant and manage as plantationbut not a large area. May be best to just let this be a oak /pine flat adjacent to these low areas. Oak will remain in stand and wp will grow in as jp fall out. 2000FMD Potential or designated old growth. O4O7J4 jp site index better represents site.

22.0

96

Compartment: 52 Year of Entry: 2022



Stand	Level 4 Co	over Type	S	ize De	ensity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments
29	6124 - Lowla	and Spruce	-Fir Po	oletimb	er Wel	8.5	83	111-140	N/A		2020: Mixed lowland. Site is generally wet with several flows through and
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	a larger creek. 2000FMD S5F4 POTENTIAL OR DESIGNATED OLD GROWTH. 2010FMD: Nice spruce in places and good spruce/fir regen
	Red Maple	20	Pole/Sapling	8		Re	ed Maple	Low	5 - 10 feet	Sapling	especially in pockets.
	Paper Birch	5	Pole/Sapling	9		Ва	alsam Fir	Medium	5 - 10 feet	Sapling	
	Bigtooth Aspen	5	Log/Pole	10	83	Bla	ck Spruce	Medium	5 - 10 feet	Sapling	
	Balsam Fir	20	Pole/Sapling	8	83	Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	
	Black Spruce	30	Pole/Log	9	83					•	•
No	rthern White Cedar	20	Log	13	112						
30	6130 - Fir, <i>i</i>	Aspen, Ma	ple Sa	awtimb	er Well	10.0	90	51-80	N/A		2020: Stand is wet and not manageable. Some large WP scattered around. WP,BF, BS filling in gaps slowly. 2000FMD potential or
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	designated old growth. F4C7M4 SOME POLE AND SAPLING SIZED
	Red Maple	20	Log/Pole	11	90	Ва	alsam Fir	Low	5 - 10 feet	Sapling	FIR DYING. 2010FMD: More of lowland hardwood mix that surrounding
	Paper Birch	5	Log/Pole	10		Bla	ck Spruce	Low	5 - 10 feet	Sapling	stands.
	O., al.:a. A. a. a. a.	40	Dala/Cardina	0	00	т.	: Al-l- ::	1	T 40 foot	Tall Charle	

Quaking Aspen 10 Pole/Sapling 9 90 Bigtooth Aspen 15 12 90 Log 20 8 Balsam Fir Pole Black Spruce 5 8 Pole/Sapling Northern White Cedar 10 13 112 Log 12 5 Log/Pole Tamarack White Pine 10 16 Log/XLog

Tag Alder Low 5 - 10 feet Tall Shrub White Pine Low 10 - 20 feet Sapling

31	42260 - Natural Pine	e, Mixed	Deciduous Sa	wtimb	er Well
	Canopy Species	% Cove	r Size Class	DBH	Age
	Red Maple	8	Pole/Sapling	6	
	Red Oak	5	Log	12	101
	White Oak	10	Log	14	101
	Bigtooth Aspen	10	Log	13	91
	Balsam Fir	2	Pole/Sapling	6	
	White Pine	25	Pole/Log	8	54
	Red Pine	25	Log	14	96
	Jack Pine	15	Log/Pole	11	96

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	Medium	5 - 10 feet	Sapling
Red Oak	Low	10 - 20 feet	Sapling
White Oak	Low	10 - 20 feet	Sapling
White Oak	Low	10 - 20 feet	Saplir

111-140

N/A

2020: This stand has a multiaged structure. May want to continue to manage as mixed age stand. Mixed sizes of pine and oak. Some XL WP with logs/poles/saps. Jp in stand is good quality but declining and should be harvested. Aspen is also declining but not a large component. Consider marking this stand to reduce the overall diameter and create a new age class. Focus on keeping pole sized and some XL for for seed. May be a good place to try to do some scarification to generate more natural reproduction. Some areas are heavier to wp poles. May want to thin these. 2010 Different ages of pine /oak/aspen but there is a fair amount od 80-90 yr old aspen jp and red pine that should be harvested. Jack pine and aspen/rm and some rp? should be taken out. Stand will fill in with pine regen-mostly white but some red pine is growing in to openings in this area. Pockets of youger ages scattered about (35-45 yr). A couple acres in the sw corner. Strip of mature pine seems to be left on west line? Check for corners and see what is wrong. Trespass with state land posted along west boundary.

Report 7 - Stands Traverse City Mgt. Unit



Stand	Level 4 Cover Type			Size Density		Acres Stand Age B	BA Range Managed Site		ite	General Comments
32	6120 - Lov	wland Ceda	r	Sawtimb	er Well	5.3 121	81-110	N/A		2020: Areas with heavy storm damage. 2000FMD potential or
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	designated old growth. C9C5WB7WB4M4 2010FMD: Lowland mix. Areas of windthrow.
	Red Maple	15	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling	
	Paper Birch	10	Pole/Log	9		Balsam Fir	Low	10 - 20 feet	Sapling	
-	Bigtooth Aspen	1	Log	12	83	White Pine	Low	5 - 10 feet	Sapling	
	Balsam Fir	5	Pole	8		Tag Alder	Low	10 - 20 feet	Tall Shrub	
	Black Spruce	5	Pole/Log	8	83					
Nor	thern White Cedar	60	Log	15	121					
	White Pine	3	Log	16						
	Hemlock	1	Log	14						
33	42260 - Natural Pi	ne, Mixed D	eciduous	Sawtimb	er Well	6.3 89	111-140	N/A		2020: Stand looks fine. 2000FMD: potential or designated old growth.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	A5A7R7O7W4 Very steep slope. 2010FMD: Not manageable. Steep slope along road. Mixof rp wp aspen oak jp.
	Red Oak	10	Log	14	111	Balsam Fir	Low	5 - 10 feet	Sapling	stope diong road. Without p wp dopon out jp.
	White Oak	10	Log	14		White Pine	Low	10 - 20 feet	Sapling	
ſ	Bigtooth Aspen	20	Log	12	89	Hemlock	Low	>20 feet	Sapling	
	White Pine	25	Log	12	89					-
	Red Pine	35	Log	14	89					
34	42380 - Non Pin	e Upland C	onifer,	Sawtimb	er Well	9.1 121	51-80	N/A		2020: Good bit of blowdown on wetter edges. Nice cedar which is a
34	Mixed D	Deciduous							Sizo	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though
	Mixed Danopy Species	Deciduous % Cover	Size Class	DBH	er Well	Sub-Canopy Species	Density	Avg. Height	Size	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/l
	Mixed Danopy Species Red Maple	% Cover	Size Class	DBH		Sub-Canopy Species Balsam Fir	Density Low	Avg. Height 10 - 20 feet	Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though
	Mixed Danopy Species	Deciduous % Cover	Size Class	DBH 12 16		Sub-Canopy Species	Density	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. Genera
	Mixed Danopy Species Red Maple Basswood	% Cover 15 5	Size Class Log Log	DBH		Sub-Canopy Species Balsam Fir Black Spruce	Density Low Low	Avg. Height 10 - 20 feet	Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. Genera follows stream bottom. XL White pine on higher spots with some
	Mixed Dance See See Maple Basswood Yellow Birch	% Cover 15 5 10	Size Class Log Log Log	DBH 12 16 13		Sub-Canopy Species Balsam Fir Black Spruce	Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. Genera follows stream bottom. XL White pine on higher spots with some
	Mixed Dance Canopy Species Red Maple Basswood Yellow Birch Balsam Fir	**Cover 15 5 10 5	Size Class Log Log Log Pole	DBH 12 16 13 8		Sub-Canopy Species Balsam Fir Black Spruce	Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. Genera follows stream bottom. XL White pine on higher spots with some
	Mixed Daniel Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce	% Cover 15 5 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Size Class Log Log Log Pole Pole	DBH 12 16 13 8 8	Age	Sub-Canopy Species Balsam Fir Black Spruce	Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. Genera follows stream bottom. XL White pine on higher spots with some
	Mixed Daniel Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce thern White Cedar	% Cover 15 5 10 5 5 5	Size Class Log Log Log Pole Pole Log	DBH 12 16 13 8 8 14	Age 121	Sub-Canopy Species Balsam Fir Black Spruce	Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. Genera follows stream bottom. XL White pine on higher spots with some
	Mixed D Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce thern White Cedar White Pine Red Pine	% Cover	Log Log Log Pole Pole Log XLog/Log Log	DBH 12 16 13 8 8 14 22	121 121	Sub-Canopy Species Balsam Fir Black Spruce White Pine	Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. General follows stream bottom. XL White pine on higher spots with some rm/basswood/black cherry ash red pine along with cedar/spruce/fir. 2020: Difficult access with higher water in recent years. Some blowdov areas. Rich conifer swamp with drainages flowing through. 2000FMD
Nor	Mixed D Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce thern White Cedar White Pine Red Pine	## Cover	Log Log Log Pole Pole Log XLog/Log Log	DBH	121 121	Sub-Canopy Species Balsam Fir Black Spruce White Pine	Density Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet	Sapling Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. Genera follows stream bottom. XL White pine on higher spots with some rm/basswood/black cherry ash red pine along with cedar/spruce/fir. 2020: Difficult access with higher water in recent years. Some blowdow areas. Rich conifer swamp with drainages flowing through. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and
Nor	Mixed Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce thern White Cedar White Pine Red Pine 6129 - Mixed Co	## Cover	Log Log Log Pole Pole Log XLog/Log Log wwland	DBH	121 121 121 er Well	Sub-Canopy Species Balsam Fir Black Spruce White Pine	Density Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet	Sapling Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. Genera follows stream bottom. XL White pine on higher spots with some rm/basswood/black cherry ash red pine along with cedar/spruce/fir. 2020: Difficult access with higher water in recent years. Some blowdow areas. Rich conifer swamp with drainages flowing through. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010fmd: Looks like headwaters for creek. A
Nor	Mixed Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce thern White Cedar White Pine Red Pine 6129 - Mixed Co	Cover 15 5 10 5 5 5 5 3 oniferous Loorest **Cover* 10 5	Log Log Log Pole Pole Log XLog/Log Log Size Class	DBH 12 16 13 8 8 14 22 16 Poletimb	121 121 121 er Well	Sub-Canopy Species Balsam Fir Black Spruce White Pine 40.8 121 Sub-Canopy Species	Density Low Low Low Low Density	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height	Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. General follows stream bottom. XL White pine on higher spots with some rm/basswood/black cherry ash red pine along with cedar/spruce/fir. 2020: Difficult access with higher water in recent years. Some blowdown areas. Rich conifer swamp with drainages flowing through. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010fmd: Looks like headwaters for creek. A number of small drainages flowing through. Rich lowland mix. A good of dead spruce. Blowdown area in noth end of stand with birch growing
Nor	Mixed D Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce thern White Cedar White Pine Red Pine 6129 - Mixed Co Fo Canopy Species Red Maple	Cover 15 5 10 5 5 5 5 5 3 oniferous Loorest **Cover** 10	Size Class Log Log Pole Pole Log XLog/Log Log Size Class Pole	DBH 12 16 13 8 8 14 22 16 Poletimb	121 121 121 er Well	Sub-Canopy Species Balsam Fir Black Spruce White Pine 40.8 121 Sub-Canopy Species Balsam Fir	Density Low Low Low 111-140 Density Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. General follows stream bottom. XL White pine on higher spots with some rm/basswood/black cherry ash red pine along with cedar/spruce/fir. 2020: Difficult access with higher water in recent years. Some blowdown areas. Rich conifer swamp with drainages flowing through. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010fmd: Looks like headwaters for creek. A number of small drainages flowing through. Rich lowland mix. A good of dead spruce. Blowdown area in noth end of stand with birch growing
Nor	Mixed D Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce thern White Cedar White Pine Red Pine 6129 - Mixed Co Fo Canopy Species Red Maple Paper Birch	Cover 15 5 10 5 5 5 5 3 oniferous Loorest **Cover* 10 5	Log Log Log Pole Pole Log XLog/Log Log Size Class Pole Log/Pole	DBH 12 16 13 8 8 14 22 16 Poletimb	121 121 121 er Well	Sub-Canopy Species Balsam Fir Black Spruce White Pine 40.8 121 Sub-Canopy Species Balsam Fir Black Spruce	Density Low Low Low 111-140 Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. General follows stream bottom. XL White pine on higher spots with some rm/basswood/black cherry ash red pine along with cedar/spruce/fir. 2020: Difficult access with higher water in recent years. Some blowdown areas. Rich conifer swamp with drainages flowing through. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010fmd: Looks like headwaters for creek. A number of small drainages flowing through. Rich lowland mix. A good of dead spruce. Blowdown area in noth end of stand with birch growing
Nor	Mixed Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce thern White Cedar White Pine Red Pine 6129 - Mixed Co Fo Canopy Species Red Maple Paper Birch Balsam Fir	Cover	Log Log Log Pole Pole Log XLog/Log Log Size Class Pole Log/Pole Pole/Log Pole Log	DBH	121 121 121 er Well	Sub-Canopy Species Balsam Fir Black Spruce White Pine 40.8 121 Sub-Canopy Species Balsam Fir Black Spruce	Density Low Low Low 111-140 Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. General follows stream bottom. XL White pine on higher spots with some rm/basswood/black cherry ash red pine along with cedar/spruce/fir. 2020: Difficult access with higher water in recent years. Some blowdown areas. Rich conifer swamp with drainages flowing through. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010fmd: Looks like headwaters for creek. A number of small drainages flowing through. Rich lowland mix. A good of dead spruce. Blowdown area in noth end of stand with birch growing
Norn	Mixed Canopy Species Red Maple Basswood Yellow Birch Balsam Fir Black Spruce thern White Cedar White Pine Red Pine 6129 - Mixed Co Fo Canopy Species Red Maple Paper Birch Balsam Fir Black Spruce	## Cover	Log Log Log Pole Pole Log XLog/Log Log Size Class Pole Log/Pole Log/Pole Pole/Log Pole	DBH	121 121 121 er Well	Sub-Canopy Species Balsam Fir Black Spruce White Pine 40.8 121 Sub-Canopy Species Balsam Fir Black Spruce	Density Low Low Low 111-140 Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	heavier component in wetter areas. Some big wp scattered around. Little understory formed at this time. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010FMD: Small stand with mix of upland and lowland species. Genera follows stream bottom. XL White pine on higher spots with some rm/basswood/black cherry ash red pine along with cedar/spruce/fir. 2020: Difficult access with higher water in recent years. Some blowdow areas. Rich conifer swamp with drainages flowing through. 2000FMD C9C5F4E7E4 Though low SI -cedar growing well. 2010 Pre-inv 30 and 41 were hooked in O/I 2010fmd: Looks like headwaters for creek. A number of small drainages flowing through. Rich lowland mix. A good I of dead spruce. Blowdown area in noth end of stand with birch growing

OF NATURAL
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MICHIGAN

Stand	Level 4 Co	over Type	S	Size De	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
36	4191 - Mixed Upla Co	and Decidu onifer	ous with Sa	awtimb	er Well	9.0	101	81-110	N/A		2020 Split this stand off from Stand 39 which is a N Hardwood pocket. 2000FMD potential or designated old growth. 2010FMD: Hardwood
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	stand on slightly higher ground and up along creek drain. Some big scattered white pine.
	Red Maple	20	Log/Pole	12		Bal	sam Fir	Low	10 - 20 feet	Sapling	scattered write pine.
	Red Oak	5	Log/Pole	12	101	Blac	k Spruce	Low	10 - 20 feet	Sapling	
	Paper Birch	5	Log/Pole	12		Wh	ite Pine	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	20	Log	12	71	Red	d Maple	Low	10 - 20 feet	Sapling	
	Balsam Fir	5	Pole/Sapling	8							•
	White Pine	25	Log	12	101						
37	4310 - Piı	ne, Oak Mi	x Po	oletimb	er Well	7.8	46	81-110	N/A		2020: 70-80 Basal area residual oak and pine with wp/rm/aspem grown in
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	through gaps. All in canopy. Little understory. Let stand grow in. May want to thin next entry. 2000FMD J4W7A4 Potential or designated old
	Red Maple	5	Pole	7		Bal	sam Fir	Low	5 - 10 feet	Sapling	growth. 2010FMD: Looks like jp/rm/aspen cut out in this stand and
	Red Oak	20	Log	15	111	Wh	ite Pine	Low	5 - 10 feet	Sapling	maybe some older pine and oak. Now scattered older oak and pine 85-
	White Oak	20	Log	15	111	Re	ed Pine	Low	5 - 10 feet	Sapling	100 yr with 30-40 yr pine/maple/aspen and oak grown in. Most is wp but rp generally present. Both ages counted in canopy layer.
	Bigtooth Aspen	5	Pole	7	46						Try gonorally process. Down agos counted in carropy layor.
	White Pine	30	Pole	7	46						
	D 1D:										
	Red Pine	15	Log	14	91						
	Jack Pine	15 5	Log Log/Pole	10	91						
38	Jack Pine 790 - Other Bare/ 4119 - Mixed No	5 Sparsely V	Log/Pole 'egetated dwoods Sa	10 Nonsto	ocked er Well	5.9	101	81-110	No N/A		2020: Older low quality hardwood mix in creek bottom. Transition
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species	5 Sparsely V	Log/Pole 'egetated dwoods Sa Size Class	10 Nonsto	ocked er Well	11.0	101 nopy Species	81-110 Density	N/A Avg. Height	Size	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species Sugar Maple	5 Sparsely V orthern Hard % Cover 25	Log/Pole /egetated dwoods Sa Size Class XLog/Log	Nonstonawtimb	per Well 1 Age	11.0 Sub-Car	nopy Species sam Fir		N/A Avg. Height 10 - 20 feet	Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood stand on slightly higher ground and up along creek drain. Some big
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species	5 Sparsely V orthern Hard % Cover 25 15	Log/Pole 'egetated dwoods Sa Size Class	Nonsto	per Well I Age 101 101	11.0 Sub-Car	nopy Species	Density	N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species Sugar Maple	5 Sparsely V orthern Hard % Cover 25	Log/Pole /egetated dwoods Sa Size Class XLog/Log	Nonstonawtimb	per Well 1 Age	11.0 Sub-Car Bal Blac	nopy Species sam Fir	Density Low	N/A Avg. Height 10 - 20 feet	Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood stand on slightly higher ground and up along creek drain. Some big
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species Sugar Maple Red Maple	5 Sparsely V orthern Hard % Cover 25 15	Log/Pole dwoods Sa Size Class XLog/Log Log/Pole	Nonsto	per Well I Age 101 101	11.0 Sub-Car Bal Blac	nopy Species sam Fir k Spruce	Density Low Low	N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood stand on slightly higher ground and up along creek drain. Some big
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species Sugar Maple Red Maple Basswood	Sparsely V orthern Hard **Cover* 25 15 15	Log/Pole dwoods Sa Size Class XLog/Log Log/Pole Log	10 Nonsto awtimb DBF 18 11 14	per Well I Age 101 101	11.0 Sub-Car Bal Blac	nopy Species sam Fir k Spruce	Density Low Low	N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood stand on slightly higher ground and up along creek drain. Some big
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species Sugar Maple Red Maple Basswood Red Oak	Sparsely V orthern Hare **Cover* 25 15 15 10	Log/Pole dwoods Sa Size Class XLog/Log Log/Pole Log Log/XLog	10 Nonsto awtimb DBH 18 11 14 16	per Well I Age 101 101	11.0 Sub-Car Bal Blac	nopy Species sam Fir k Spruce	Density Low Low	N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood stand on slightly higher ground and up along creek drain. Some big
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species Sugar Maple Red Maple Basswood Red Oak White Oak	5 Sparsely V orthern Hard % Cover	Log/Pole dwoods Sa Size Class XLog/Log Log/Pole Log Log/XLog Log Log	10 Nonsto awtimb DBH 18 11 14 16 14	per Well I Age 101 101	11.0 Sub-Car Bal Blac	nopy Species sam Fir k Spruce	Density Low Low	N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood stand on slightly higher ground and up along creek drain. Some big
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species Sugar Maple Red Maple Basswood Red Oak White Oak Bigtooth Aspen	5 Sparsely V Orthern Hard % Cover 25 15 15 10 2 3	Log/Pole dwoods Sa Size Class XLog/Log Log/Pole Log Log Log/XLog Log Log Log Log	10 Nonsto awtimb DBH 18 11 14 16 14 14 14	per Well I Age 101 101	11.0 Sub-Car Bal Blac	nopy Species sam Fir k Spruce	Density Low Low	N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood stand on slightly higher ground and up along creek drain. Some big
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species Sugar Maple Red Maple Basswood Red Oak White Oak Bigtooth Aspen Balsam Fir	5 Sparsely V Orthern Hard % Cover 25 15 15 2 3 5	Log/Pole dwoods Sa Size Class XLog/Log Log/Pole Log Log/XLog Log Log Pole/Sapling	10 Nonsto awtimb DBH 18 11 14 16 14 14 8	per Well I Age 101 101	11.0 Sub-Car Bal Blac	nopy Species sam Fir k Spruce	Density Low Low	N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood stand on slightly higher ground and up along creek drain. Some big
39	Jack Pine 790 - Other Bare/ 4119 - Mixed No Canopy Species Sugar Maple Red Maple Basswood Red Oak White Oak Bigtooth Aspen Balsam Fir rthern White Cedar	5 Sparsely V orthern Hard % Cover	Log/Pole dwoods Sa Size Class XLog/Log Log/Pole Log Log/XLog Log Log Log Log Pole/Sapling Log/Pole	10 Nonsto DBH 18 11 14 16 14 14 8 12	per Well 1 Age 101 101 101	11.0 Sub-Car Bal Blac	nopy Species sam Fir k Spruce	Density Low Low	N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	between upland and lowland. Unique for area. Keep for diversity. 2000FMD potential or designated old growth. 2010FMD: Hardwood stand on slightly higher ground and up along creek drain. Some big



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
40	4130	- Aspen	F	Poletimb	er Well	17.5	27	51-80	N/A		2020: Patchy wp and aspen in places but most has good aspen stocking. Let stand grow in. 2000FMD: Harvested 1993. Cut to 2".
	Canopy Species	% Cover	Size Class	DBH	Age						potential of designated old growth. A3. 2010FMD: Good aspen regen
	Red Maple	10	Sapling	4							with some wp and rm.
	Bigtooth Aspen	70	Pole/Sapling		27						
	White Pine	19	Sapling	3							
	Red Oak	1	Sapling/Pole	4	27						
41	4191 - Mixed Upla Co	and Decidu	ous with	Sawtimb	er Well	22.2	110	51-80	N/A		2020: Oak/pine mix on slope and base of slope. East facing slope with lower stocked oak/pine and light wp regen under. Bigger WP scattered
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Specie	es Density	Avg. Height	Size	around in stand. Mature oak-some poles but most is XL/L. Mixed WP sizes. May want to harvest parts of this stand that are not too steep
	Red Maple	10	Pole/Sapling	8		Re	ed Maple	Low	10 - 20 feet	Sapling	if/when Stand 45 is harvested. 2000FMD Potential or designated old
	Red Oak	25	XLog/Log	18	110	W	hite Pine	Low	Variable	Sapling	growth. J4A4R7 Sampled JP 70 yr old. almost stopped growing at 40
	White Oak	30	Log/XLog	16	110			'			yr. SI probably higher than shown. Red to thin on slopes. 2010FMD: Older pine and oak on slope with wp/rm growing in under. Access is
	Bigtooth Aspen	3	Log	14	91						questionable-blocked by private land and lowland. Basal area is not high
	White Pine	20	Log/Pole	12	110						at this time.
	Red Pine	10	Log	14							
42	4310 - Pi	ne, Oak Mix	·	Sawtimb	er Well	22.1	106	201+	N/A		2020: Nice RP/WP. Most of stand is behind creek and on steeper
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Specie	s Density	Avg. Height	Size	ground. May be best to just let his be. Old road comes back from north and ends at creek. May be possible bridge site but not that much behind
	Red Maple	15	Pole	8			ed Maple	Low	10 - 20 feet	Sapling	creek is on workable ground due to slope. 2010FMD: Nice
	Red Oak	15	Log	14	106	Ва	alsam Fir	Low	5 - 10 feet	Sapling	pine/oak/aspen wit wp/rm/bf understory mix along
	White Pine	20	Log/XLog	16	106	W	hite Pine	Low	10 - 20 feet	Sapling	bottomland and low part of slope. Blocked by terrain and private ownership.
	Bigtooth Aspen	5	Log	14	96						□ Ownership.
	Red Pine	30	Log	15	106						
	Jack Pine	5	Log/Pole	10	96						
	White Oak	10	Log/Pole	12							
43	320 - Up	land Shrub		Nonsto	cked	3.1		Unspecified	No		Stand was old well pad and planted to autumn olive.
44	310 - Herbac	eous Open	land	Nonsto	cked	2.5		Unspecified	No		
45	4129 - 1	Mixed Oak	5	Sawtimb	er Well	22.8	108	81-110	N/A		2020: Mature oak. Good log volume. Mixed wp sizes. Some oak poles
	Canopy Species		Size Class		Age	Sub-Ca	anopy Specie	es Density	Avg. Height	Size	but most is XL/L. Desirable to harvest if possible but not good access and may want to let adjacent area in sC53 develop. Would likely have to
	Red Oak	30	XLog/Log	18	108	Re	ed Maple	Low	10 - 20 feet	Sapling	skid back to C53 stand 35-old well pad which is a long skid but good
	White Oak	30	Log/XLog	16	108	W	hite Pine	Medium	10 - 20 feet	Sapling	volume in stand may make it possible. 2000FMD 08A404W4 sampled
	Bigtooth Aspen	5	Log	12	96						I red oak 87 yr old. slowed at 65 age. Potential or designated old growth. 2010FMD: Ridge and flat above drainage with oak @ 100 years -a little
	White Pine	18	Log	12	108						pine and wp growing in under.
	Red Pine	5	Log	14	108						
	Jack Pine	2	Log/Pole	10							
	Red Maple	10	Pole	8							

01-- D----11--

Courtimber Door

Compartment: 52 Year of Entry: 2022



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	SA Range	wanaged S	oite
46	42250 -	Pine, Oak		Sawtimb	er Poor	20.2	84	1-50	N/A	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size
	Red Oak	15	Log	14	111	Re	ed Maple	Low	5 - 10 feet	Sapling
	White Oak	15	Log	14		W	hite Pine	Low	>20 feet	Sapling
	White Pine	35	Log/Pole	11		R	ed Pine	Low	>20 feet	Sapling
	Red Pine	35	Log/Pole	11	84	W	hite Oak	Low	< 5 feet	Sapling

2020: Little new understory development since harvest. Some red maple has escaped brouse level but most aspen and oak has been broused out of stand. Consider removing most of the overstory-leaving smaller diameter pine and some larger trees for seed. This stand had heavier pine component before harvest compared to surrounding stand. TS# 042-12. Harvested 11/14-2/15. Cut merchantable but no rp,wp or green marked retention. 2000FMDO7R7O4M4A4 Potential or designated old growth. 2000FMD J5 with some rp logs, scattered aspen and oak poles. 2010 FMD: Pine in drain and slopes. Jack pine still looks alright. Could cut back to red and white pine but I think the jp will be good till next entry. Old burnt pine stumps around and a few scattered pine stumps.

General Comments

4/	4310 - PII	ne,	, Oak ivi	IX	Sav	dimb	er Pod	ı
	Canopy Species	9	6 Cove	Size Class	3	DBH	Age	Ī
	Red Maple		2	Pole/Log		8		
	Red Oak		23	Log/Pole		12	101	Ī
	White Oak		25	Log/Pole		12	101	
	White Pine		35	Log/Pole		12	91	Ī
	Red Pine		15	Log		11		ľ
,								Ī

1210 Dina Oak Mix

L ---- 1 4 O ---- T----

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling
Red Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen	Low	5 - 10 feet	Sapling
White Oak	Low	< 5 feet	Sapling
Red Oak	Low	< 5 feet	Sapling
	Red Maple White Pine Red Pine Bigtooth Aspen White Oak	Red Maple Low White Pine Medium Red Pine Low Bigtooth Aspen Low White Oak Low	Red Maple Low 5 - 10 feet White Pine Medium 10 - 20 feet Red Pine Low 10 - 20 feet Bigtooth Aspen Low 5 - 10 feet White Oak Low < 5 feet

1-50

91

76

126 6

46.6

M - - - - - - 1 0:1 -

N/A

N/A

2020: Some rm sprouts geting past deer brouse. Little oak or aspen sprouts have survived deer impact. Not much new wp seeding in since harvest. Pockets of wp salplings and seedlings left from last harvest. May have not been a good idea to leave so much pine canopy with last entry. May have been better to leave pine under 6"dbh and some larger seed trees scattered around. Consider doing that this entry. TS# 042-12. Harvested 11/14-2/15. Cut merchantable but no rp,wp or green marked retention. 2000FMDO7R7O4M4A4 Potential or designated old growth. 80 yr old oak mature. Considering low SI. Sampled oak 81 yr old slowed growth at 60 yr. Small JP stand (O/I 103) age 62 in nw corner. 2010FMD: 80-100 ytr old pine and oak with lots of pine underneath. Some slopes would not be workable. Aspen heavier onslopes. Old burnt pine stumps throughout. Redpine saplings and poles are scattered about. White pine in various sizes in understory throughout.

40 -====	o,		Carranto	J. 1101
Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Red Oak	15	Log	14	
White Oak	13	Log	14	116
Bigtooth Aspen	2	Log	12	76
White Pine	35	Log	13	76
Red Pine	30	Log	13	76

42260 - Natural Pine, Mixed Deciduous Sawtimber Well

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
White Pine	High	10 - 20 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling

81-110

2020: Mixed ages and sizes of pine. Red pine may be all same age but mixed wp ages. Consider getting larger daimeter pine and oak out and letting this stand develop as multi-aged pine. The east side had more advanced understory-patchy wp. Also, there may be potential to get part of this cc and re-planted to pine. This is really nice pine ground and the red pine looks guite good. The part of stand nw of JP road might work. The underswtory is not as heavy there. small depressions could be retention of steeper areas. 2000FMD POTENTIAL OR DESIGNATED OLD GROWTH, Do not agree with old growth set aside for this stand. with the stand make up and condition, the stand (eastern portion) should remain in in management. Stand harvested in 1996 and regen is showing up in canopy openings. Cut aspen, jp and orange marked. Stands 57 50 and 64 were hooked in this o/i stand. 2010FMD: Parts or all of this stand cut with stand to east where they took out the aspen/jp/rm/larger oak. Thick wp regen in places. Snow is knocking down white pine regen. Age of most of stand is 105 from prev. inv. but som 60 -80 vr old rp/wp/oak. Good growth on red pine that is in canopy. Small rp (6") is 80 yr old. Trees have no diameter growth for a while but still good height growth. Maybe not all this stand was thinned in last sale . West side looks different. Generally stocking throughout stand is not heavy. Red pine is getting oversized for current markets.



Stan	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
49	4310 - Pi	ine, Oak Mi	x :	Sawtimb	er Well	22.2	76	81-110	N/A		2020: Stand looks alright. 2010FMD: Mixed species on steep slope.
-	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Similar to mix up on flat but more wp.
	Red Maple	5	Pole	8		Red	d Maple	Low	5 - 10 feet	Sapling	
	Red Oak	20	Log	16	111	Wh	ite Pine	Medium	5 - 10 feet	Sapling	
	White Oak	15	Log	14	111						-
	Bigtooth Aspen	15	Log	12							
	White Pine	25	Log	12	76						
	Red Pine	10	Log	12	76						
	Jack Pine	10	Log	11							
50	4124 - Red		Oak Size Class	Sawtimb DB H	er Well	5.1 Sub-Ca r	116	81-110 Density	N/A Avg. Height	Size	2020: Lower quality oak-mainly red oak with large pine mixed through. Heavy wp understory but it has a lot of snow damage. Consider taking most of the oak overstory off to try to get stump sprouts or at least to
	Red Maple	3	Pole/Sapling	7		Red	d Maple	Low	10 - 20 feet	Sapling	release existing understory. Deer brousing has limited sucess from
	Red Oak	45	Log	14	116	Wh	ite Pine	High	10 - 20 feet	Sapling	stump sprouts in this area with recent harvests. 2010: More oak than
	White Oak	20	Log	14	116			<u> </u>		•	ipine compared to surrounding stands. Not harvested in last entry. Jack pine and aspen still in stand. Thick wp regen and a little rp.
	Bigtooth Aspen	5	Log	12	91						prio and apport still in stand. Think we regen and a little ip.
	White Pine	15	Log	13	91						

• •					
Canopy Species	%	6 Cover	Size Class	DBH	Age
Red Maple		5	Log/Pole	10	
Yellow Birch		5	Log	12	
Bigtooth Aspen		5	Log	14	96
Northern White Cedar		67	Log/Pole	12	127
White Pine		10	XLog/Log	20	127
Red Pine		3	Log	14	
Hemlock		5	Log	14	

10

2

6120 - Lowland Cedar

42260 - Natural Pine, Mixed Deciduous

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	>20 feet	Sapling
Red Oak	Low	>20 feet	Sapling
White Oak	Low	>20 feet	Sapling

N/A

N/A

201+

81-110

2020: Nice cedar stand. Some storm damage. Large wp scattered around. Little understory 2000FMD R8W7J4R4 some wp also. Sampled rp 87 yr old. slowed at age 60. potential or designated old growth. 2010FMD: Some bigger pine scattered about but most is cedar. Scattered big pine along south of creek.

Canopy Species	% Cove	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Red Maple	Low	10 - 20 feet	Sapling
Red Oak	10	Log	16	111	Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Oak	10	Log	16	111	White Pine	Medium	10 - 20 feet	Sapling
White Pine	30	Log/Pole	11	96	Red Pine	Low	10 - 20 feet	Sapling
Red Pine	40	Log	14	96	Jack Pine	Low	5 - 10 feet	Sapling

12

9

Sawtimber Well

Sawtimber Well

5.5

18.0

127

96

Log

Pole/Log

2020: Mixed ages of pine. Mixed sizes of older tall red and wp. WP and oak seedlings and saplings in gaps and under canopy but not well stocked in many areas. May continue to fill in slowly if more canopy is removed. This could encourage the development of more oak in the subcanopy. Little red pine in sub-canopy. Not clear how to move this to a new well stocked stand. 2000FMD POTENTIAL OR DESIGNATED OLD GROWTH, Do not agree with old growth set aside for this stand. with the stand make up and condition, the stand (eastern portion) should remain in in management. Stand harvested in 1996 and regen is showing up in canopy openings. Cut all aspen, jp and orange marked. Stands 57 50 and 64 were hooked in this o/i stand. 2010FMD: Some older fire scarred pine and larger oak but most is age 85. Maybe older trees taken out in last harvest. Lots of wp regen in places. Looks like strips were cut out for regen purposes.

Red Pine

Jack Pine

51

52



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
53	3104 -	Degraded		Nonsto	cked	2.0	U	nspecified	Managed Op	ening	
54	6120 - Lo	wland Ceda	r :	Sawtimb	er Well	12.6	127	201+	N/A		2020: Nice lowland conifer mix. 2000FMD C9C5H4F4WB4 Cedar
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	maintaining good ring growth. 2010FMD; SPRUCE/FIR GROWING IN OPENINGS. WELL STOCKED CEDAR WITH SOME
	Red Maple	10	Log/Pole	12		Ва	lsam Fir	Low	10 - 20 feet	Sapling	HEMLOCK/BS/BF.
	Paper Birch	5	Log	12		Blac	ck Spruce	Low	10 - 20 feet	Sapling	
	Balsam Fir	10	Pole/Log	9							-
	Black Spruce	15	Log/Pole	12							
No	rthern White Cedar	50	Log	12	127						
	Hemlock	10	Log	14							
55	4126 - White, E	Black, N. Piı	n Oak	Sawtimb	er Well	6.5	111	111-140	N/A		2020: Lower quality oak and rm with pine. Low stocked wp understory.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Log and pole mix. West line has been marked in past but did not find corners. Not accessable due to creek and private land. Stand is being
	Red Maple	13	Pole	8			ed Maple	Low	>20 feet	Sapling	treated as private land by adjacent landowner that controlls access.
	Red Oak	30	Log	14	111	WI	nite Pine	Medium	>20 feet	Sapling	2010FMD; OAK/PINE FLAT ABOVE CREEK. TRESPPASS WITH LAND
	White Oak	40	Log	14	111	R	ed Pine	Low	>20 feet	Sapling	POSTED ALONG BREAK PF RIDGE. WHITE PINE GROWING IN UNDER.
	White Pine	10	Log	12	-						ONDER.
	Red Pine	5	Log	13	0.4						
	110011110	5	Log	13	91						
	Jack Pine	2	Log/Pole	10	91						
56	Jack Pine		Log/Pole		91	7.8	91	81-110	N/A		2020: Similar age to stand to south but more pine in this stand due to
56	Jack Pine	ne, Oak Mix	Log/Pole	10 Sawtimb	91			81-110 Density		Size	NW aspect. Not accessable without private access. There is an old road
56	Jack Pine 4310 - Pi	ne, Oak Mix	Log/Pole	10 Sawtimb	91 er Well	Sub-Ca	91 nopy Species		N/A Avg. Height >20 feet	Size Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box
56	Jack Pine 4310 - Pi	2 ne, Oak Mix % Cover	Log/Pole Size Class	10 Sawtimb	91 er Well	Sub-Ca	nopy Species	Density	Avg. Height		NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to
56	Jack Pine 4310 - Pi Canopy Species Red Maple	ne, Oak Mix **Cover** 10	Log/Pole Size Class Pole/Log	10 Sawtimb DBH	91 er Well	Sub-Ca Re Ba	nopy Species ed Maple	Density Low	Avg. Height >20 feet	Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX
56	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak	ne, Oak Mix **Cover** 10 20	Log/Pole Size Class Pole/Log Log	Sawtimb DBH 9 15	91 er Well	Sub-Ca Re Ba Wi	nopy Species ed Maple Isam Fir	Low Low	Avg. Height >20 feet >20 feet	Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to
56	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak	2 ne, Oak Mix % Cover 10 20 20	Log/Pole Size Class Pole/Log Log Log	10 Sawtimb DBH 9 15 15	91 er Well Age	Sub-Ca Re Ba Wi	nopy Species ed Maple Ilsam Fir nite Pine	Low Low Medium	Avg. Height >20 feet >20 feet Variable	Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX
56	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine	2 ne, Oak Mix % Cover 10 20 20 30	Log/Pole Size Class Pole/Log Log Log Log Log/Pole	10 Sawtimb DBH 9 15 15	91 er Well Age	Sub-Ca Re Ba Wi	nopy Species ed Maple Ilsam Fir nite Pine	Low Low Medium	Avg. Height >20 feet >20 feet Variable	Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX
56	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine	2 ne, Oak Mix % Cover 10 20 20 30 10 10	Log/Pole Size Class Pole/Log Log Log Log/Pole Log Log/Pole	10 Sawtimb DBH 9 15 15 11 11	91 er Well Age 1111 91 91 91	Sub-Ca Re Ba Wi	nopy Species ed Maple Ilsam Fir nite Pine	Low Low Medium	Avg. Height >20 feet >20 feet Variable	Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM.
	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine Jack Pine	2 ne, Oak Mix % Cover 10 20 20 30 10 10 Upland Coni	Log/Pole Size Class Pole/Log Log Log Log/Pole Log Log/Pole	10 Sawtimb 9 15 15 11 13 10 Poletimb	91 er Well Age 1111 91 91 91	Sub-Ca Re Ba Wi R	nopy Species ad Maple alsam Fir nite Pine ed Pine	Low Low Medium Low	Avg. Height >20 feet >20 feet Variable >20 feet	Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM. 2020: Small transitional stand fro lower ground to upland. Mixed species as a result. Some JP declining but not much volume. Let stand grow in.
	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine Jack Pine 429 - Mixed 0	2 ne, Oak Mix % Cover 10 20 20 30 10 10 Upland Coni	Log/Pole Size Class Pole/Log Log Log Log/Pole Log Log/Pole ffers	10 Sawtimb 9 15 15 11 13 10 Poletimb	er Well Age 1111 91 91 91 er Well	Sub-Ca Re Ba Wi R: 6.2 Sub-Ca	nopy Species and Maple alsam Fir anite Pine and Pine	Density Low Low Medium Low 81-110	Avg. Height >20 feet >20 feet Variable >20 feet	Sapling Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM.
	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine Jack Pine 429 - Mixed U Canopy Species	2 ne, Oak Mix % Cover 10 20 20 30 10 10 Upland Coni	Log/Pole Size Class Pole/Log Log Log/Pole Log Log/Pole Size Class	10 Sawtimb DBH 9 15 15 11 13 10 Poletimb DBH	91 er Well 111 91 91 91 er Well Age	Sub-Ca Re Ba Wi Re 6.2 Sub-Ca	nopy Species and Maple alsam Fir anite Pine and Pine 86 nopy Species	Low Low Medium Low 81-110 Density	Avg. Height >20 feet >20 feet Variable >20 feet N/A Avg. Height	Sapling Sapling Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM. 2020: Small transitional stand fro lower ground to upland. Mixed species as a result. Some JP declining but not much volume. Let stand grow in. Mixed wp sizes XXL/L/P/S 2000FMD A4J4W7 2010FMD: Some pine
	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine Jack Pine 429 - Mixed U Canopy Species Red Maple	2 ne, Oak Mix **Cover* 10 20 20 30 10 10 Upland Coni **Cover* 20	Size Class Pole/Log Log Log/Pole Log Log/Pole Size Class Pole/Pole	10 Sawtimb DBH 9 15 11 13 10 Poletimb DBH 8	91 er Well 111 91 91 91 er Well Age	Sub-Ca Re Ba Wi R 6.2 Sub-Ca Re Ba	nopy Species ad Maple alsam Fir hite Pine ed Pine 86 nopy Species ad Maple	Density Low Low Medium Low 81-110 Density Low	Avg. Height >20 feet >20 feet Variable >20 feet N/A Avg. Height 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM. 2020: Small transitional stand fro lower ground to upland. Mixed species as a result. Some JP declining but not much volume. Let stand grow in. Mixed wp sizes XXL/L/P/S 2000FMD A4J4W7 2010FMD: Some pine appears to be older but most is 60-75 age. Aspen will fall out of stand
	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine Jack Pine 429 - Mixed U Canopy Species Red Maple Red Oak	2 ne, Oak Mix **Cover** 10 20 20 30 10 10 Upland Coni **Cover** 20 5	Log/Pole Size Class Pole/Log Log Log/Pole Log Log/Pole Size Class Pole Log Log/Pole	10 Sawtimb DBH 9 15 15 11 13 10 Poletimb DBH 8 12	91 er Well 111 91 91 91 er Well Age	Sub-Ca Re Ba WI Re 6.2 Sub-Ca Re Ba Blace	nopy Species and Maple alsam Fir anite Pine and	Density Low Low Medium Low 81-110 Density Low Low	Avg. Height >20 feet >20 feet Variable >20 feet N/A Avg. Height 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM. 2020: Small transitional stand fro lower ground to upland. Mixed species as a result. Some JP declining but not much volume. Let stand grow in. Mixed wp sizes XXL/L/P/S 2000FMD A4J4W7 2010FMD: Some pine appears to be older but most is 60-75 age. Aspen will fall out of stand
	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine Jack Pine 429 - Mixed U Canopy Species Red Maple Red Oak White Oak	2 ne, Oak Mix **Cover 10	Log/Pole Size Class Pole/Log Log Log/Pole Log Log/Pole Size Class Pole Log Log/Pole	10 Sawtimb DBH	91 er Well 1111 91 91 91 er Well Age 86	Sub-Ca Re Ba WI Re 6.2 Sub-Ca Re Ba Blace	nopy Species and Maple alsam Fir anite Pine and	Density Low Medium Low 81-110 Density Low Low Low Low	Avg. Height >20 feet >20 feet Variable >20 feet N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM. 2020: Small transitional stand fro lower ground to upland. Mixed species as a result. Some JP declining but not much volume. Let stand grow in. Mixed wp sizes XXL/L/P/S 2000FMD A4J4W7 2010FMD: Some pine appears to be older but most is 60-75 age. Aspen will fall out of stand
	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine Jack Pine 429 - Mixed U Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen	2 ne, Oak Mix **Cover	Log/Pole Size Class Pole/Log Log Log Log/Pole Log Log Log Log Log	10 Sawtimb DBH	91 er Well 1111 91 91 91 er Well Age 86	Sub-Ca Re Ba WI Re 6.2 Sub-Ca Re Ba Blace	nopy Species and Maple alsam Fir anite Pine and	Density Low Medium Low 81-110 Density Low Low Low Low	Avg. Height >20 feet >20 feet Variable >20 feet N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM. 2020: Small transitional stand fro lower ground to upland. Mixed species as a result. Some JP declining but not much volume. Let stand grow in. Mixed wp sizes XXL/L/P/S 2000FMD A4J4W7 2010FMD: Some pine appears to be older but most is 60-75 age. Aspen will fall out of stand
	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine Jack Pine 429 - Mixed U Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen Balsam Fir	2 ne, Oak Mix % Cover 10 20 20 30 10 10 10 Upland Coni % Cover 20 5 5 5 5	Log/Pole Size Class Pole/Log Log Log/Pole	10 Sawtimb 9 15 15 11 13 10	91 er Well 1111 91 91 91 er Well Age 86	Sub-Ca Re Ba WI Re 6.2 Sub-Ca Re Ba Blace	nopy Species and Maple alsam Fir anite Pine and	Density Low Medium Low 81-110 Density Low Low Low Low	Avg. Height >20 feet >20 feet Variable >20 feet N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM. 2020: Small transitional stand fro lower ground to upland. Mixed species as a result. Some JP declining but not much volume. Let stand grow in. Mixed wp sizes XXL/L/P/S 2000FMD A4J4W7 2010FMD: Some pine appears to be older but most is 60-75 age. Aspen will fall out of stand
	Jack Pine 4310 - Pi Canopy Species Red Maple Red Oak White Oak White Pine Red Pine Jack Pine 429 - Mixed U Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen Balsam Fir Black Spruce	2 ne, Oak Mix **Cover* 10 20 20 30 10 10 10 Upland Coni **Cover* 20 5 5 5 5 5 5	Log/Pole Size Class Pole/Log Log Log/Pole Log Log/Pole Log Log/Pole Log Log/Pole Log Log/Pole Filers Pole Log Log Pole Pole	10 Sawtimb 9 15 15 11 13 10 Poletimb 8 12 14 8 8 8	91 er Well 1111 91 91 91 91 Fr Well Age 86	Sub-Ca Re Ba WI Re 6.2 Sub-Ca Re Ba Blace	nopy Species and Maple alsam Fir anite Pine and	Density Low Medium Low 81-110 Density Low Low Low Low	Avg. Height >20 feet >20 feet Variable >20 feet N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling	NW aspect. Not accessable without private access. There is an old road through stand from private property. Stand has permanant looking box blinds and tree stand likely from private land to south. 2000FMD potential or designated old growth. J4O7 some areas may convert to oak. 2010FMD PINE AND OAK MIX ON SLOPE ABOVE CREEK. MIX OR WO/RO/RP/WP/RM. 2020: Small transitional stand fro lower ground to upland. Mixed species as a result. Some JP declining but not much volume. Let stand grow in. Mixed wp sizes XXL/L/P/S 2000FMD A4J4W7 2010FMD: Some pine appears to be older but most is 60-75 age. Aspen will fall out of stand



Stand	Level 4 C	over Type	S	ize De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
58	3104 -	Degraded		Nonsto	cked	6.1			Managed Op	ening	
59	4126 - White, E	Black, N. P	in Oak S	awtimb	er Well	97.7	96	51-80	N/A		2020: Low density (30-60 BA) Oak and pine logs with rm,wp and some oak poles and saplings. Mixed oak sizes Xlog-pole. Part of the stand
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	has oak and pine marked that was not harvested. East part of stand has
	Red Maple	10	Pole/Sapling	7		Re	ed Maple	Medium	10 - 20 feet	Sapling	lower stocking and would be a possibility for a red pine planting area.
	Red Oak	20	Log	16		WI	hite Pine	Medium	10 - 20 feet	Sapling	The west part of stand has thicker under story with wp and deciduous mix
	White Oak	50	Log	15	96	R	ed Pine	Low	10 - 20 feet	Sapling	of poles and saplings. Could take off some off the older canopy but it is not clear that this would be a good move. May need to let stand
	White Pine	10	Pole/Log	9		W	hite Oak	Low	5 - 10 feet	Sapling	develop. This looks like what was tried with the unfinished Tsale. It
	Red Pine	7	Log	12		R	ed Oak	Low	5 - 10 feet	Sapling	would be difficult to find the marked trees due to the amount of
	Jack Pine	3	Pole/Log	9							dunderstory. 2000FMD 0704A4R7W7 TS# 036-2002. TCR 2006. Cut all aspen ,jp and marked. Partial cut prescribed Aspen and some oak
											large old oak scattered around with 80 yr class grown in of pine and oak/red maple poles. Very thick wp regen in places. Going to white pine without fire. Looks like part of old oak savannah grown in. Oak does not look like good quality for the most part. Old burnt pine stumps scattered
60	4191 - Mixed Upla		ous with	Sapling) Poor	13.0	28	1-50	N/A		about. 2020: Poor regeneration sucess after small clearcut-shelterwood
	Cc	onifer		, ,		13.0	28	1-50	N/A		about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally
	Canopy Species	onifer % Cover	Size Class	DBH	l Age	13.0	28	1-50	N/A		about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting
	Cc	onifer	Size Class Sapling	DB H	28	13.0	28	1-50	N/A		about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally
	Canopy Species Red Maple	% Cover	Size Class Sapling Sapling	DBH 3 2	28 28	13.0	28	1-50	N/A		about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting
	Canopy Species Red Maple Red Oak	% Cover 25 5	Size Class Sapling	DBH 3 2 2	28	13.0	28	1-50	N/A		about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and
	Canopy Species Red Maple Red Oak White Oak	% Cover 25 5 10	Size Class Sapling Sapling Sapling	DBH 3 2	28 28	13.0	28	1-50	N/A		about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting
	Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen	% Cover 25 5 10 10	Size Class Sapling Sapling Sapling Sapling	DBH 3 2 2 3	28 28	13.0	28	1-50	N/A		about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting
	Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine	% Cover 25 5 10 10 10	Size Class Sapling Sapling Sapling Sapling Sapling Sapling	DBH 3 2 2 3 4	28 28 28 28	13.0	28	1-50	N/A		about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting
	Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Jack Pine	% Cover 25 5 10 10 10 25 5 5	Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	DBH 3 2 2 3 4 4 3	28 28 28 28 28			1-50			about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting through but most is browsed heavily and stunted.
61	Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Jack Pine Black Cherry	% Cover 25 5 10 10 10 25 5 5	Size Class Sapling	DBH 3 2 2 3 4 4 3	28 28 28 28 28 er Well	8.7	116	141-170	N/A	Size	about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting through but most is browsed heavily and stunted. 2019: Mixed sized of pine but more XL/L than adjacent stand to east. This stand also has a larger RP component. Pockets of WP regen in
61	Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Jack Pine Black Cherry 42260 - Natural Pine Canopy Species	% Cover 25 5 10 10 10 25 5 5 10 40 25 5 5 10 40 40 40 40 40 40 40 40 40 40 40 40 40	Size Class Sapling	DBH 3 2 2 3 4 4 3 awtimb	28 28 28 28 28 I Age	8.7 Sub-Ca	116 nopy Species	141-170 Density	N/A Avg. Height	Size Sapling	about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting through but most is browsed heavily and stunted. 2019: Mixed sized of pine but more XL/L than adjacent stand to east. This stand also has a larger RP component. Pockets of WP regen in gaps but not a lot of understory in general after last harvest. Basal Area
61	Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Jack Pine Black Cherry 42260 - Natural Pin Canopy Species Red Maple	% Cover 25	Size Class Sapling	DBH 3 2 2 3 4 4 3 awtimb DBH 8	28 28 28 28 14 28 15 16 16 16 16 16 16 16 16 16 16 16 16 16	8.7 Sub-Ca	116 nopy Species ed Maple	141-170 Density Low	N/A Avg. Height 10 - 20 feet	Sapling	about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting through but most is browsed heavily and stunted. 2019: Mixed sized of pine but more XL/L than adjacent stand to east. This stand also has a larger RP component. Pockets of WP regen in
61	Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Jack Pine Black Cherry 42260 - Natural Pine Canopy Species	Cover 25 5 10 10 25 5 5	Size Class Sapling Deciduous Size Class Pole Log	DBH 3 2 2 3 4 4 3 awtimb DBH 8 11	28 28 28 28 28 I Age	8.7 Sub-Ca Re	116 nopy Species ed Maple alsam Fir	141-170 Density Low Low	N/A Avg. Height 10 - 20 feet >20 feet	Sapling Sapling	about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting through but most is browsed heavily and stunted. 2019: Mixed sized of pine but more XL/L than adjacent stand to east. This stand also has a larger RP component. Pockets of WP regen in gaps but not a lot of understory in general after last harvest. Basal Area is high in many areas. May want to bring the stocking down to try to encourage understory development. Little red pine recruitment. A good bit of merchantable red maple. Some wp logs cut out in 85 for internal
61	Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Jack Pine Black Cherry 42260 - Natural Pine Canopy Species Red Maple Red Oak White Oak	% Cover 25	Size Class Sapling Log Log	DBH 3 2 2 3 4 4 3 awtimb DBH 8	28 28 28 28 14 28 15 16 16 16 16 16 16 16 16 16 16 16 16 16	8.7 Sub-Ca Re	116 nopy Species ed Maple	141-170 Density Low	N/A Avg. Height 10 - 20 feet	Sapling	about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting through but most is browsed heavily and stunted. 2019: Mixed sized of pine but more XL/L than adjacent stand to east. This stand also has a larger RP component. Pockets of WP regen in gaps but not a lot of understory in general after last harvest. Basal Area is high in many areas. May want to bring the stocking down to try to encourage understory development. Little red pine recruitment. A good bit of merchantable red maple. Some wp logs cut out in 85 for internal use. 2000FMD selection harvest in 1993. wp seedlings present.
61	Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Jack Pine Black Cherry 42260 - Natural Pin Canopy Species Red Maple Red Oak	% Cover 25 5 10 10 25 5 5 10 10 25 5 5 10 10 10 25 5 5 10 10 10 10 10 10	Size Class Sapling Deciduous Size Class Pole Log	DBH 3 2 2 3 4 4 3 awtimb BBH 8 11 11	28 28 28 28 14 28 15 16 16 16 16 16 16 16 16 16 16 16 16 16	8.7 Sub-Ca Re	116 nopy Species ed Maple alsam Fir	141-170 Density Low Low	N/A Avg. Height 10 - 20 feet >20 feet	Sapling Sapling	about. 2020: Poor regeneration sucess after small clearcut-shelterwood harvest. Some oak and pine retention from last harvest-logs and poles. Patches of jp and aspen have better stocking but the stand is generally not well stocked. The oak seedlings and saplings are still getting broused heavily and kept in stunted condition. 2000FMD A2 2010FMD: Harvested 1996. CC with retention. Clearcut pocket wit some oak and pine retained from last harvest. Regen mix growing in. Some oak getting through but most is browsed heavily and stunted. 2019: Mixed sized of pine but more XL/L than adjacent stand to east. This stand also has a larger RP component. Pockets of WP regen in gaps but not a lot of understory in general after last harvest. Basal Area is high in many areas. May want to bring the stocking down to try to encourage understory development. Little red pine recruitment. A good bit of merchantable red maple. Some wp logs cut out in 85 for internal



Stand	Level 4 Co	vel 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		Site	General Comments						
62	4126 - White, E	Black, N. Pi	n Oak	Sawtimbe	er Well	69.8	9.8 96 81-1		N/A		2020: Mixed sized of oak and pine canopy with developing understory.
	Canopy Species % Cover Size Class DBH Age Sub-Canopy Species						nopy Species	Density	Avg. Height	Size	Oak understory is good in places with some patches getting past brouse level but other areas are still getting broused heavily and are
	Red Maple	15	Pole/Sapling	7		Re	ed Maple	Medium	>20 feet	Pole	suppressed. Most oak understory is WO. Wp understory is variable in
	Red Oak	20	Log	14	96	WI	hite Pine	Medium	Variable	Sapling	stocking and height. More pine in understory in SW part of stand while central part of stand has more oak understory. Oak canopy is
	White Oak	48	Log	13	96	R	ed Pine	Low	>20 feet	Sapling	average/low quality but here are some nice oak stems mixed in. Red
	White Pine	15	Pole/Log	9		W	hite Oak	Medium	5 - 10 feet	Sapling	maple is merchantable but could benefit from time to let it put on more
	Red Pine	2	Log/Pole	12		R	ted Oak	Low	5 - 10 feet	Sapling	volume. Let this stand grow in to put on more volume and develop
						Bigto	ooth Aspen	Low	10 - 20 feet	Sapling	understory. May consider cutting back to shelterwood next entry if understory is developed 2000FMD O7O4A4R7W7 Partial cut
											have been completed. Stands 67,73,83,64,and part of 52 were all hooked in o/i. 2010FMD: Some older larger pine scattered around but that size seems to have been targeted in last sale as well as aspen and jack pine. Most oak and pine is 80-85 yr class in cluding small rp poles that look to be age 35. White pine of various ages as it has been growing through. Jack pine and aspen is most all cut. Old oak 10-14" left (most is white) with wp/rm/rp poles grown in. Old burnt pine stumps scattered around.
63	3104 -	Degraded		Nonsto	cked	3.6	ι	Jnspecified	Managed Op	pening	Well plugged 11/2000. Unknown if reclamation is needed or attempted. See comments below.
64	42200 - Natu			Sawtimbe		8.3	121	111-140	N/A		2020: Large old WP XL/L, with poles, salplings and seedlings under. Stocking is variable. JP is large and going out. Much of it is on ground
	Canopy Species		Size Class	DBH	Age		nopy Species	Density	Avg. Height	Size	already. May be intersting to get the remaining JP out and create some
	Red Maple	15	Log/Pole	11			alsam Fir	Low	>20 feet	Sapling	gaps to try to start new ages in this stand. Possible trespass concerns.
	Red Oak	5	Log	12	56		hite Pine	Medium	5 - 10 feet	Sapling	Re-visit in spring. It looks like their stuff may be parked on state land as bouildings may be right at line. 2002 FMD-P2. Part of stand 69.
	White Oak	2	Pole/Sapling			Re	ed Maple	Low	10 - 20 feet	Sapling	2010FMD. W8 Parts of this stand and stand 76 were hooked in o/i stand
	Bigtooth Aspen	3	Log	12	91						40 2010 FMD: Large old WP and RP. Most is white. with oak/rm/wp/jp
	White Pine	60	Log	16	121						poles grown in. Jp is 85 age and oak 50-50.
	Red Pine	5	Log	16	121						
	Jack Pine	10	Log/Pole	13	96						
65	42290 - Natu	ıral Mixed F	Pine F	Poletimbe	er Well	3.8	73	51-80	N/A		2020: agree with last assesment. 2000FMD: J5 2010FMD: JP and aspen in drain betrween aspen regen. JP looks alright for now. Access
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	is difficult to this and it seems to be a good thermal; pocket for deer.
	Quaking Aspen	20	Pole	7		WI	hite Pine	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	5	Pole	8		Bla	ck Cherry	Low	5 - 10 feet	Sapling	
	White Pine	20	Pole	9							
	Red Pine	5	Log/Pole	12	73						
	Jack Pine	50	Pole	8	73						



Stand	Level 4 C	el 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments										
66	4130	- Aspen		Sapling	y Well	16.0	16.0 27 Imma		mmature N/A		2020: Pockets of jp/ most is Bigtooth aspen Good growth on aspen				
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	WO seedling/saps in gapes. 2000FMD A3 2010FMD:Harvested 1996. CC with retention. Pretty good aspen regeration with oaks, rm, jp wp bc				
	Red Maple	15	Sapling	3	27	Wh	nite Pine	Low	5 - 10 feet	Sapling	mixed in. Some residual wp left from last sale.				
	Red Oak	5	Sapling	2		Blac	ck Cherry	Low	5 - 10 feet	Sapling	·				
	White Oak	5	Sapling	2		Wh	nite Oak	Low	< 5 feet	Sapling					
	Quaking Aspen	10	Sapling	3	27				1		_				
	Bigtooth Aspen	55	Sapling	4	27										
	Jack Pine	5	Sapling	4											
	Black Cherry	5	Sapling	3											
67	42260 - Natural Pi	ne, Mixed D	Deciduous F	Poletimb	er Well	15.6	67	1-50	N/A		2020: Mix of oak and pine along drain. Factor Limit for riparian concerns				
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	and slopes. 2000FMD F4C4C7A4 Water quality/bmp/deer yard concerns. 2010FMD: Side hill with lower stocking pole sized				
	Red Maple	10	Pole	8		Wh	nite Pine	Low	< 5 feet	Sapling	jp/aspen/oak/rm. Better stocked to west part of stand but steeper slop				
	White Oak	20	Log	14	117	Ja	ck Pine	Low	< 5 feet	Sapling					
	Bigtooth Aspen	8	Log/Pole	11		Wh	nite Oak	Low	< 5 feet	Sapling					
	White Pine	25	Log/Pole	11	67										
	***************************************	20	Log/i ole		07										
	Jack Pine	35	Pole/Log	9	67										
68	Jack Pine Red Oak	35	Pole/Log Log	9	67	11.4	76	81-110	N/A		2020: Mixed pine /deciduous. Jp is dropping out of stand but some areas				
68	Jack Pine Red Oak	35 2 ne, Oak Miz	Pole/Log Log	9 14 Sawtimb	67		76 nopy Species	81-110 Density	N/A Avg. Height	Size	with good stocking. RM is of merchantable size. Some pockets of oak				
68	Jack Pine Red Oak 4310 - Pi	35 2 ne, Oak Miz	Pole/Log Log	9 14 Sawtimb	67 er Well	Sub-Car				Size Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo				
68	Jack Pine Red Oak 4310 - Pi	35 2 ne, Oak Miz	Pole/Log Log x Size Class	9 14 Sawtimb DBH 8 14	67 er Well	Sub-Car Rec	nopy Species	Density	Avg. Height		with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo age size diversity 2010FMD; Residual oak/pine savannah with with				
68	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple	ne, Oak Miz	Pole/Log Log X Size Class Pole	9 14 Sawtimb DBH 8	67 er Well	Sub-Car Red Wh	nopy Species d Maple	Density Low	Avg. Height 5 - 10 feet	Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could				
	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak	35 2 ne, Oak Miz % Cover 20 5	Pole/Log Log Size Class Pole Log	9 14 Sawtimb DBH 8 14	er Well	Sub-Car Red Wh	nopy Species d Maple nite Pine	Density Low Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo age size diversity 2010FMD; Residual oak/pine savannah with with				
	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak	35 2 ne, Oak Mix **Cover* 20 5 20 5 15	Pole/Log Log Size Class Pole Log Log	9 14 Sawtimbb DBH 8 14 14 11	er Well	Sub-Car Red Wh	nopy Species d Maple nite Pine	Density Low Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could				
	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen	35 2 ne, Oak Miz % Cover 20 5 20 5	Pole/Log Log Size Class Pole Log Log Log Log	9 14 Sawtimb DBH 8 14 14	67 er Well I Age	Sub-Car Red Wh	nopy Species d Maple nite Pine	Density Low Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could				
	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine	35 2 ne, Oak Mix **Cover* 20 5 20 5 15	Pole/Log Log Size Class Pole Log Log Log Log Log Log/Pole	9 14 Sawtimbb DBH 8 14 14 11	67 er Well I Age	Sub-Car Red Wh	nopy Species d Maple nite Pine	Density Low Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could				
	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Red Pine Jack Pine 4191 - Mixed Upla	35 2 ne, Oak Mix **Cover** 20 5 20 5 15 5 30	Pole/Log Log Size Class Pole Log Log Log Log Log/Pole Log Pole/Log	9 14 Sawtimb DBH 8 14 14 11 11 9 Sawtimb	67 er Well 100 76 76 76 er Well	Sub-Car Red Wh	nopy Species d Maple nite Pine	Density Low Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could be younger 40-50. 2020: Mixed species and ages. Stocking is not high in most areas. Ground lays good. Consider harvesting with stand 68 and planting red				
	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Red Pine Jack Pine 4191 - Mixed Upla	35 2 ne, Oak Mix **Cover 20 5 20 5 15 5 30 and Deciduonifer	Pole/Log Log Size Class Pole Log Log Log Log Log/Pole Log Pole/Log	9 14 Sawtimb DBH 8 14 14 11 11 9 Sawtimb	67 er Well 1 Age 100 76 76	Sub-Car Rec Wh Wh	nopy Species d Maple nite Pine nite Oak	Density Low Low Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could be younger 40-50. 2020: Mixed species and ages. Stocking is not high in most areas. Ground lays good. Consider harvesting with stand 68 and planting red pine after harvest. 2000FMD O7O4A4R7W7 Partial cut prescribed				
	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Red Pine Jack Pine 4191 - Mixed Upla	35 2 ne, Oak Mix **Cover 20 5 20 5 15 5 30 and Deciduonifer	Pole/Log Log Size Class Pole Log Log Log Log Log/Pole Log Pole/Log Pole/Log Ous with	9 14 Sawtimb DBH 8 14 14 11 11 9 Sawtimb	67 er Well 100 76 76 76 er Well	Sub-Car Red Wh Wh	nopy Species d Maple nite Pine nite Oak	Density Low Low Low 51-80	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A	Sapling Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment for age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could be younger 40-50. 2020: Mixed species and ages. Stocking is not high in most areas. Ground lays good. Consider harvesting with stand 68 and planting red				
	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Red Pine Jack Pine 4191 - Mixed Upla Cc Canopy Species	35 2 ne, Oak Mix **Cover* 20 5 20 5 15 5 30 and Deciduonifer **Cover*	Pole/Log Log Size Class Pole Log Log Log Log Log Pole/Log Pole/Log Size Class	9 14 Sawtimb DBH 8 14 14 11 11 9 Sawtimb	67 er Well 100 76 76 76 er Well	Sub-Car Rec Wh Wh 30.3	nopy Species d Maple hite Pine hite Oak 108 nopy Species	Density Low Low Low Density	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment for age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could be younger 40-50. 2020: Mixed species and ages. Stocking is not high in most areas. Ground lays good. Consider harvesting with stand 68 and planting red pine after harvest. 2000FMD O7O4A4R7W7 Partial cut prescribed Aspen and some oak cut. 2010. Some of this sale may not have been completed. Stands 67,73,83,64,and part of 52 were all hooked in o/i. 2010FMD: Part of this stand was in past sale as well as the stand to the				
	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Red Pine Jack Pine 4191 - Mixed Upla Cc Canopy Species Red Maple	35 2 ne, Oak Mix **Cover 20 5 20 5 15 5 30 and Deciduonifer **Cover 15	Pole/Log Log Size Class Pole Log Log Log Log Pole/Log Pole/Log Size Class Pole/Log	9 14 Sawtimb DBH 8 14 11 11 11 9 Sawtimb DBH 8	67 er Well 100 76 76 76 er Well	Sub-Car Rec Wh Wh 30.3 Sub-Car Rec Wh	nopy Species d Maple hite Pine hite Oak 108 nopy Species d Maple	Density Low Low Low 51-80 Density Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 10 - 20 feet	Sapling Sapling Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment for age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could be younger 40-50. 2020: Mixed species and ages. Stocking is not high in most areas. Ground lays good. Consider harvesting with stand 68 and planting red pine after harvest. 2000FMD 0704A4R7W7 Partial cut prescribed Aspen and some oak cut. 2010. Some of this sale may not have been completed. Stands 67,73,83,64,and part of 52 were all hooked in o/i. 2010FMD: Part of this stand was in past sale as well as the stand to the south. Some areas in this stand(south and east) have good 50 yr old rp				
69	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Red Pine Jack Pine 4191 - Mixed Upla Co Canopy Species Red Maple Red Oak	35 2 ne, Oak Mix **Cover* 20 5 20 5 15 5 30 and Deciduonifer **Cover* 15 10	Pole/Log Log Size Class Pole Log Log Log Log Pole/Log Pole/Log Size Class Pole/Log Log Log Pole/Log	9 14 Sawtimb DBH 8 14 11 11 11 9 Sawtimb DBH 8 12	67 er Well 1 Age 100 76 76 76 er Well 1 Age	Sub-Car Rec Wh Wh 30.3 Sub-Car Rec Wh	nopy Species d Maple hite Pine hite Oak 108 nopy Species d Maple hite Pine	Density Low Low Low 51-80 Density Low Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 10 - 20 feet Variable	Sapling Sapling Sapling Sapling Size Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment for age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could be younger 40-50. 2020: Mixed species and ages. Stocking is not high in most areas. Ground lays good. Consider harvesting with stand 68 and planting red pine after harvest. 2000FMD O7O4A4R7W7 Partial cut prescribed Aspen and some oak cut. 2010. Some of this sale may not have been completed. Stands 67,73,83,64,and part of 52 were all hooked in o/i. 2010FMD: Part of this stand was in past sale as well as the stand to the south. Some areas in this stand(south and east) have good 50 yr old rp and aspen grown in. Some younger oak. A good density of old burnt				
69	Jack Pine Red Oak 4310 - Pi Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen White Pine Red Pine Jack Pine 4191 - Mixed Upla Co Canopy Species Red Maple Red Oak White Oak	35 2 ne, Oak Mix **Cover* 20 5 20 5 15 5 30 and Deciduonifer **Cover* 15 10 35	Pole/Log Log Size Class Pole Log Log Log Log Pole/Log Pole/Log Size Class Pole/Log Log Log Log Log Log Log Log Log Log	9 14 Sawtimb DBH 8 14 11 11 11 9 Sawtimb DBH 8 12 12	67 er Well 100 76 76 76 er Well 1 Age	Sub-Car Rec Wh Wh 30.3 Sub-Car Rec Wh	nopy Species d Maple hite Pine hite Oak 108 nopy Species d Maple hite Pine	Density Low Low Low 51-80 Density Low Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 10 - 20 feet Variable	Sapling Sapling Sapling Sapling Size Sapling Sapling	with good stocking. RM is of merchantable size. Some pockets of oak seedling/saplings. This stand could be re-started. CC with retention. Retain some well formed oak and pine. 2000FMD Delayed treatment fo age size diversity 2010FMD; Residual oak/pine savannah with with younger age of jp,wp,rp,aspen 65 yr age. JP looks like a good bit could be younger 40-50. 2020: Mixed species and ages. Stocking is not high in most areas. Ground lays good. Consider harvesting with stand 68 and planting red pine after harvest. 2000FMD O7O4A4R7W7 Partial cut prescribed Aspen and some oak cut. 2010. Some of this sale may not have been completed. Stands 67,73,83,64,and part of 52 were all hooked in o/i. 2010FMD: Part of this stand was in past sale as well as the stand to the south. Some areas in this stand(south and east) have good 50 yr old rp				

54

Red Maple

7

16

6

6

rt 7 – Stands Compartment: 52
Year of Entry: 2022

OF NATURAL PROPERTY OF NAT

Stan	d Level 4 C	over Type	;	Size De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments		
70	42290 - Nat	ural Mixed F	Pine F	Poletimb	er Well	12.7	56	81-110	N/A		2020: Unique stand with some of the largest wp in area. A vert large old		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	rp also. Best to let this stand go through its natural processes. WP of all sizes and ages. 2010FMD: Part to east is more ip and wp along d		
	Red Maple	17	Pole	8		Red	d Maple	Medium	10 - 20 feet	Sapling	and slopes. The rest has large old white pine with the 45 age grown in		
	Red Oak	3	Log	13	91	Wh	ite Pine	Medium	5 - 10 feet	Sapling	under-mix of wp/jp/rm and a little oak under. Neat area. Large white pine is very large likely 120-160 yr old.		
	White Oak	2	Log	13		Bal	sam Fir	Low	10 - 20 feet	Sapling	is very large likely 120-160 yr old.		
	Yellow Birch	2	Log	12									
	White Pine	45	Pole	8	56								
	Jack Pine	15	Log	12	91								
	White Pine	10	XLog	26	137								
	Black Cherry	3	Log/Pole	10									
	Red Pine	3	XLog/Log	22	137								
71	4310 - Pi	ine, Oak Mi	x S	Sawtimb	er Well	31.6	69	81-110	N/A		2020: Oak poles growing through older jp. Jp starting to fall out of		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	stand. Consider harvesting the jp along with lower quality oak and rm. Attempt to retain the good quality oak poles. I believe the jp, rm, aspen		
	Red Maple	10	Log/Pole	11		Red	d Maple	Low	>20 feet	Sapling	Attempt to retain the good quality bak poles. The lieve the jp, ini, aspen		
	Red Oak	5	Log	12		Wh	ite Pine	Medium	10 - 20 feet	Sapling	areas may convert to oak. Retention of stand for regeneration purposes.		
	White Oak	23	Pole	8	69	Ja	ck Pine	Low	5 - 10 feet	Sapling	i.e. shelterwood. 2010FMD: Jp ages checked 65 and 85. Most is likely 85. Oak poles and saps growing in. Stocking of canopy layer is		
	White Pine	10	Pole	8	56	Northe	rn Pin Oak	Low	10 - 20 feet	Sapling	variable. Some older aspen is scattered about. Older jp is going out.		
	Red Pine	2	Log/Pole	12	96	Wh	nite Oak	Low	10 - 20 feet	Sapling	Scattered old oak.		
	Jack Pine	45	Log/Pole	10	69			,			•		
	Bigtooth Aspen	3	Log	12									
	Black Cherry	2	Sapling/Pole	4									
72	42290 - Nat	ural Mixed F	Pine S	Sawtimb	er Well	5.1	76	51-80	N/A		2020: This could be seed tree harvested if working in the area. Not high priority. Jack pine is declining. 2000FMD: J5 2010FMD; Pine and aspen		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	in ice block depression.		
	Quaking Aspen	15	Log/Pole	11		Wh	ite Pine	Low	< 5 feet	Sapling			
	White Pine	20	Log/Pole	11	76	Ja	ck Pine	Low	< 5 feet	Sapling			
	Jack Pine	55	Log/Pole	11	76						-		
	Red Pine	5	Log	12									
	White Oak	2	Log/Pole	12									
	Black Cherry	3	Pole	8									
73	42220 - Na	tural Jack P	ine Po	letimbe	r Mediur	n 30.2	54	81-110	N/A	_	2020: Patchy jp with some oak, aspen and wp. Jp should be harvested		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	if this area will be added to managed barrens area and maintained with burning. There is a merchantable amount of timber and fire would not		
	Jack Pine	77	Pole/Log	8	54	Blac	k Cherry	Low	5 - 10 feet	Sapling	carry very well through the current stocking.		
	White Pine	5	Log	13		Wh	ite Pine	Low	< 5 feet	Sapling			
											†		

Sapling

5 - 10 feet

Low

Quaking Aspen

White Oak

Black Cherry

Red Maple

5

5

5

3

Pole

Log

Pole

Pole/Sapling



Stan	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed Site		General Comments	
74	42290 - Nat	ural Mixed F	Pine Sa	awtimber	Medium	12.9	54	81-110	N/A		2020: Patchy white pine -mixed sizes. Could keep as retention area in	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	barrens management. Network of game trails passing through. Could harvest and and to area managed with fire. Stand could also be thinned	
	White Pine	58	Log/Pole	13	54	W	hite Pine	Low	5 - 10 feet	Sapling	a bit if harvesting nearby.	
	Red Pine	3	Log	12		Bla	ck Cherry	Low	5 - 10 feet	Sapling		
	Jack Pine	20	Pole/Log	8	54							
	White Oak	5	Log	14								
	Bigtooth Aspen	5	Pole	8								
	Quaking Aspen	5	Pole	6								
	Red Oak	2	Log	14								
	Black Cherry	2	Pole	7								
75	4126 - White,	Black, N. Pi	in Oak	Sawtimb	er Well	32.4	108	81-110	N/A		2020: Older oak canopy with pine/aspen/rm in second age. Most rm is poles/sapling and much is not merchantable at this time. Some pockets	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of older aspen but also a younger age class. Let this tand grow in. May	
	Red Maple	16	Pole/Sapling	9 6		Re	ed Maple	Medium	>20 feet	Sapling	want to return to barrens look in future entry. 2000FMD O7A4	
	Red Oak	20	Log/XLog	16		W	hite Pine	Low	10 - 20 feet	Sapling	2010FMD: Most canopy is old oak and wp is coming in. Part of old oak/pine savannah but more oak canopy.	
	White Oak	50	Log/XLog	16	108	R	ed Pine	Low	10 - 20 feet	Sapling	oak pine savannan but more oak canopy.	
	Bigtooth Aspen	5	Log	13	76	W	hite Oak	Low	< 5 feet	Sapling		
	White Pine	5	Pole/Log	9	76							
	Red Pine	2	Log	13	76							
	Jack Pine	2	Log/Pole	10	76							
76	4191 - Mixed Upl Co	and Decidu onifer	ous with	Sawtimb	er Well	15.6	101	81-110	N/A		2020: If most of canopy removed it seems likely that this stand would eventually return to wp and rm with some oak. Split off stand to north	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	(155) which has a heavier ro component. Average oak with wp under. Old burnt pine stumps. Mixed pine sizes. 2017: clumped 3 stands and	
	Red Maple	10	Pole	7		Re	ed Maple	Medium	>20 feet	Sapling	remotely updated canopy call. Field check. 2000FMDO7R7O4M4A4	
	Red Oak	30	Log	13	101	W	hite Pine	Medium	10 - 20 feet	Sapling	Potential or designated old growth. 80 yr old oak mature. Considering	
	White Oak	20	Log	13	101	R	ed Pine	Low	10 - 20 feet	Sapling	low SI. Sampled oak 81 yr old slowed growth at 60 yr. Small JP stand (O/I 103) age 62 in nw corner. 2010FMD: 80-100 ytr old pine and oak	
	Bigtooth Aspen	3	Log	12						•	with lots of pine underneath. Some slopes would not be workable. Asper	
	White Pine	20	Log	13	91						heavier onslopes. Old burnt pine stumps throughout. Redpine saplings	
	Red Pine	15	Log/Pole	10							and poles are scattered about. White pine in various sizes in understory throughout.	
77	4311 - Pir	ne, Aspen M	lix Po	oletimber	Medium	n 13.0	61	1-50	N/A		2020:Mixed pine/QA. Aspen is poor quality and dropping out. Better stocking on west side. 2010 FMD: Small ice block depression /frost	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pocket with aspen and jp-low density poles. WLD 1/21/20: Consider	
	Red Maple	5	Pole/Sapling	9 6		Re	ed Maple	Medium	5 - 10 feet	Sapling	treating east part of this stand to promote Oak Pine Barrens vegetation	
	Quaking Aspen	35	Pole	8	61	Já	ack Pine	Low	5 - 10 feet	Sapling	and restoration. The NE end of this stand is part of MNFI' delineated	
	Jack Pine	35	Pole	8	61	Bla	ck Cherry	Medium	5 - 10 feet	Sapling	Carpenter Creek North Oak Pine Barrens ERA.	
	Black Cherry	10	Pole	8	-			'			-	

White Pine

15

Pole

9

38.5

Poletimber Well

Compartment: 52 Year of Entry: 2022

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

51-80

111

Canopy Species	% Cove	r Size Class	DBH	Age
Red Maple	25	Pole/Sapling	6	53
Red Oak	5	Log	14	111
White Oak	25	Log/Pole	12	111
Bigtooth Aspen	20	Pole/Sapling	6	53
White Pine	20	Pole/Log	8	53
Red Pine	5	Log/Pole	12	

4191 - Mixed Upland Deciduous with

Conifer

78

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Black Cherry	Low	10 - 20 feet	Sapling
White Oak	Medium	< 5 feet	Sapling
Red Oak	Low	< 5 feet	Sapling
Jack Pine	Low	5 - 10 feet	Sapling

N/A

2019: cut in mid 1960's. Cut aspen, birch, rm. Part of stand cut in 2005. Cut aspen, ip, orange marked. Two ages of aspen. Pockets of oak seedling getting broused heavily. Let stand grow in. 2000FMD Some open grown rm and large oaks. Juneberry and bc. Scattered pockets of jp. WLD MNFI identified as part of old pine-oak barrens. 2010 Likely a second older age class. Hooked with stands 110,79,82 in O/I.2000FMD O7O4A4R7W7 Partial cut prescribed Aspen and some oak cut. 2010. Some of this sale may not have been completed. Stands 67,73,83,64,and part of 52 were all hooked in o/i. The sale may not have been in this part of stand. 2010 FMD. Timber sale covered most of this stand. Looks like some bigger oak, jp and clones of bigger aspen were cut out. Left is oak, wp/rp/rm/and 3-6" aspen. Complex mix of oak /pine logs and pine/rm/oak and aspen poles. White pine saps are getting knocked down by the snow but a good many will grow through. Let grow in until aspen matures.

79	4310 - Pin	e, Oak Mix	(Sawtimb	er Well	12.2	69	81-110	N/A	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size
	Red Maple	10	Pole	8		Red	l Maple	Low	10 - 20 feet	Sapling
	Red Oak	10	Log	12	111	Whi	te Pine	Low	5 - 10 feet	Sapling
	White Oak	28	Log	12	111	Wh	ite Oak	Low	5 - 10 feet	Sapling
	Bigtooth Aspen	5	Log	12		Re	d Oak	Low	5 - 10 feet	Sapling
	Red Pine	2	Log	12	89					
	Jack Pine	32	Log/Pole	10	69					
	White Pine	13	Pole	7						

2020: This stand has large older WO/RO XL trees with jp,wp,rm,oaks in younger age class. Lower quality. May want to retain some better oak and pine poles and clearcut. Wp poles are decent in some areas and some good wo poles also in places. Could harvest with stand to west. 2000FMD Delayed for age class diversity. J5 2010FMD; Strip op jp and oak left between two other treatments. Oak is more common in central part of the stand. Jack pine is starting to fall apart. Should harvest this strip if possible. Retain decent oak poles. Oak regen in adjacent stand is browsed badly. could weave some rp in if it could be cut cleanly. This could be done with such a treatment in stand 78 (pre-inv). It has some good lying ground. Natural rp did not come in in harvest to the east.

80	4311 - Pine	, Aspen N	Лix F	Poletimb	er Wel	20.8	54	81-110	N/A	
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Can	opy Speci	es Density	Avg. Height	Size
	Red Maple	10	Pole/Sapling	7	54	Red	d Maple	Medium	10 - 20 feet	Sapling
	Red Oak	5	Log	16	101	Wh	ite Pine	Medium	10 - 20 feet	Sapling
	White Oak	15	Log	15	101	Blac	k Cherry	Low	10 - 20 feet	Sapling
	Bigtooth Aspen	25	Pole	8	54	Re	d Oak	Low	< 5 feet	Sapling
	White Pine	15	Log	13	86	Wh	ite Oak	Low	< 5 feet	Sapling
	Red Pine	20	Log	13	86					
	Jack Pine	10	Pole/Log	9	86					

2020: Nice pine ground. Red pine looks good. Mixed aspen sizes. This stand could likely regenerate to aspen/rm/jp if harvested. Could also be managed as red pine plantation with deciduous control. Ground seems best suited for pine. This stand could grow in more volume if left until next entry but could be harvested at this time. 2000FMD Some open grown rm and large oaks. Juneberry and bc. Scattered pockets of jp. WLD MNFI identified as part of old pine-oak barrens. 2010 Likely a second older age class. Is this barrens with a 40-50 yr class grown in? This stand has more pine than surrounding stands? Hooked with stands 110,79,83 in O/I. Mix of older pine and oak with most red pine at age 75. White pine is mixed ages. Most aspen and rm is pole sized -43 age from previous inv. Stand is part of old oak pine barrens. Let stand grow in for now, could be added to managed barrens area in future. Good pulpwood volume growing in with nice species mix.

Report 7 - Stands



Stand	tand Level 4 Co	over Type		Size De	ensity	Acres Stand Age B	Managed S	Site	General Comments			
81	42220 - Nat			Poletimber Well		9.9 56	51-80	N/A		2020: Oak and rm understroy. 2010: some scattered oak but most is bushy jp aged 35-45. Good little thermal cover patch for wildlife.		
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Canopy Species	Density	Avg. Height	Size	busity jp aged 33-43. Good little thermal cover patch for whome.		
	White Oak	10	Log/Pole	12	100	White Pine	Low	5 - 10 feet	Sapling			
	Quaking Aspen	5	Pole	7		Jack Pine	Low	5 - 10 feet	Sapling			
	Bigtooth Aspen	5	Pole	8	56	Black Cherry	Low	< 5 feet	Sapling			
	White Pine	10	Log/Pole	11		White Oak	Low	5 - 10 feet	Sapling			
	Red Pine	10	Log	12	76	Red Maple	Low	5 - 10 feet	Sapling			
	Jack Pine	60	Pole	8	56							
82	31022 - Warn	n Season (Grass	Nonsto	ocked	2.9 Uı	nspecified	Managed Op	pening	Consider treating this stand to promote Oak Pine Barrens vegetation and restoration. This stand is part of MNFI' delineated Carpenter Creek North Oak Pine Barrens ERA.		
83	4310 - Piı	ne, Oak Mi	х 5	Sawtimb	er Well	7.1 98	81-110	N/A				
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size			
	Red Maple	10	Log/Pole	10		Red Maple	Low	10 - 20 feet	Sapling			
	Red Oak	10	Log	14		White Pine	Low	10 - 20 feet	Sapling			
	White Oak	25	Log	14	98	Red Pine	Low	10 - 20 feet	Sapling			
	Bigtooth Aspen	10	Log	14	76	White Oak	Medium	< 5 feet	Sapling			
	White Pine	20	Log/Pole	12		Red Oak	Low	< 5 feet	Sapling			
	Red Pine	15	Log/Pole	12	76				1			
	Jack Pine	10	Log/Pole	10	76							
84	4310 - Piı	ne, Oak Mi	x F	Poletimb	er Well	31.1 27	1-50	N/A		2020: Jp poles that have filled in after last harvest with rm, wp and oak		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	poles. More oak to north part of stand. Scattered older oak and pine left as retention in last harvest. Let stand develop. 2000FMD J5O7 O3 is		
	Red Maple	10	Pole	6		White Pine	Low	10 - 20 feet	Sapling	composed of seedlings less than 1 ft tall. Sampled jp. 63 year old.		
	Red Oak	10	Pole	6		Red Maple	Low	5 - 10 feet	Sapling	Growth slosed after 40 yr. Harvested in 1994?? M4O4J1M1W2.		
	White Oak	25	Pole	6		White Oak	Low	< 5 feet	Sapling	2010FMD. was hooked with ifmaps stands 96 and 103. Oak regeeration is broused badly. Little rp regen.		
	Red Pine	2	Log/Pole	12	89		'	1		a is broaded badiy. Little ip regen.		
	Jack Pine	50	Sapling/Pole	4	27							
	White Pine	3	Pole	7								
85	4191 - Mixed Upla Co	and Decidu onifer	ous with F	Poletimb	er Well	20.4 56	1-50	N/A		2020: This could be cut back to nice barrens look with well formed oak and pine retained. Could let it grow back in with aspen, jp,rm, wp		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	expected to come in under. Could also add this to the managed barrens area and burn to maintain. This stand could wait until next entry to allow		
	Red Maple	15	Pole/Sapling	7		White Pine	Low	5 - 10 feet	Sapling	the aspen and rm especially to put on more volume. 2010 FMD: Stand		
	White Oak	15	Log/XLog	16	111	Black Cherry	Medium	< 5 feet	Sapling	surrounds natural frost pocket (NF Stand 86) Older oak (most white oak)		
		25	Pole	8	56					with 45 year old jp/rp/aspen/wp /rm grown in. Let stand grow in for		
	Bigtooth Aspen	25	1 010	8	50							
	Bigtooth Aspen White Pine	10	Log/Pole	12	56							



Stand	Level 4 C	over Type		Size De	nsity	Acres S	Stand Age E	BA Range	Managed S	ite	General Comments		
86	42220 - Nat		ine Size Class	Poletimb	er Poor	4.5	56	51-80	N/A		2020: converted from non forested . Patchy jp with mixed deciduous. Frost pocket.WLD: Consider treating this stand to promote Oak Pine		
	Canopy Species Jack Pine	% Cover	Pole	8	56						Barrens vegetation and restoration. This stand is part of MNFI' delineated Carpenter Creek North Oak Pine Barrens ERA.		
	Black Cherry	10	Pole	6	30						deilleated Calpenter Creek North Oak Fine Barrens ENA.		
	Quaking Aspen	5	Pole	6									
	Red Maple	5	Pole	6									
87	4310 - Pi	ne, Oak Mix	(Sawtimb	er Well	15.1	91	81-110	N/A		2020: WO seedlings under older oak and pine canopy Mixed sizes of		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cand	py Species	Density	Avg. Height	Size	oak and pine. Keep as riparian strip along creek. 2010FMD: Riparian zone along creek. Sidehill and a little bottom. Some large wp/rp and oal		
	Red Maple	13	Pole	8		Balsa	am Fir	Low	5 - 10 feet	Sapling	with younger wp. and jp . RM and oak poles.		
	Red Oak	10	Log	14		White	e Pine	Low	5 - 10 feet	Sapling			
	White Oak	20	Log	14	127	Whit	e Oak	Low	< 5 feet	Sapling			
	Paper Birch	2	Log/Pole	11							_		
	White Pine	15	Log	14	127								
	Red Pine	10	Log	14	91								
	Jack Pine	25	Pole/Log	9	91								
	Bigtooth Aspen	5	Log	13	91								
88	310 - Herbac	eous Open	land	Nonsto	ocked	6.4	0 L	Inspecified			Shooting Range		
90	622 - Lov	vland Shrub)	Nonsto	ocked	34.8	L	Inspecified	No				
94	4126 - White, I	Black, N. Pi	n Oak S	awtimbe	Mediun	n 9.7	127	1-50	N/A		2020: Heavy wo saplings under oak pine canopy. Also pockets of jp/wp in sub-canopy. Let stand grow in. Keep canopy call on older trees.		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cand	opy Species	Density	Avg. Height	Size	Consider getting most of the overstory off if possible. 2000FMD J507		
	Red Maple	10	Pole	8		Balsa	am Fir	Low	10 - 20 feet	Sapling	O3 is composed of seedlings less than 1 ft tall. Sampled jp. 63 year		
	Red Oak	20	Log	14		White	e Pine	Medium	5 - 10 feet	Sapling	old. Growth slowed after 40 yr. Harvested in 1994? M4O4J1M1W2. 2010FMD. was hooked ith ifmaps stands 86 and 103. 2010FMD; Looks		
	White Oak	55	Log	16	127	Jack	c Pine	High	5 - 10 feet	Sapling	like this was cut with stand to west 86 (pre-inv) but there was more oak		
	Jack Pine	10	Log	12	91	Rec	d Oak	Low	5 - 10 feet	Sapling	and jp residual. Heavier oak regenreation and less jp than the other		
	White Pine	5	Pole	8		Whit	e Oak	Low	5 - 10 feet	Sapling	stand but still a good bit of jp. Lots of small oak that is heavily browsed. Oak logs and poles and jp/wp poles with jp and wp regen.		
95	4133 - Aspe	en, Mixed P	ine	Sapling	y Well	11.5	24	1-50	N/A		2020: Let stand grow in. Mix of aspen and wp. Various ages on wp.		
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Cano	py Species	Density	Avg. Height	Size	Beaver activity. 2010: 13-16 yr old aspen regen. Some smaller white pine and jp saps and poles were left at last harvest so now this is a		
	Red Maple	10	Sapling/Pol		24		d Oak	Low	< 5 feet	Sapling	component of aspen stand. Also some scattered oak/wp and rp left from		
	Red Oak	2	Log	16		Whit	e Oak	Low	< 5 feet	Sapling	last sale.		
											†		
	White Oak	10	Log	16	101	White	e Pine	Low	< 5 feet	Sapling			
		10 43	Log Sapling/Pol		101 24	White	e Pine	Low	< 5 feet	Sapling			
	White Oak					White	e Pine	Low	< 5 feet	Sapling			
	White Oak Bigtooth Aspen	43	Sapling/Pol	e 4		Whit	e Pine	Low	< 5 feet	Sapling			
	White Oak Bigtooth Aspen White Pine	43 25	Sapling/Pole Pole	e 4 8	24	Whit	e Pine	Low	< 5 feet	Sapling			



Stand	Level 4 C	over Type	;	Size De	ensity	Acres Stand Age E	BA Range	Managed S	ite	General Comments		
96	6128 - Lowland Dec	Coniferous iduous	, Mixed F	Poletimb	er Well	5.5 127	51-80	0 N/A		2000FMD A4E4T4W7C4. Deer yards WLD: Beaver has flooded most of stand. Some regen is occuring with low water levels. 2010FMD: Low		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	stand along creek. Spruce in east part killed by high water- beaver activity. 2010 FMD: Low area along creek. West end has some killed		
	Red Maple	15	Pole/Sapling	8	26	Balsam Fir	Low	5 - 10 feet	Sapling	timber from high water-beaver.		
	Paper Birch	15	Pole	8	81	White Pine	Low	5 - 10 feet	Sapling			
	Balsam Fir	15	Pole/Sapling	8				1				
	Black Spruce	5	Log/Pole	10	81							
No	rthern White Cedar	20	Log	12	127							
	Tamarack	15	Log/Pole	12	81							
97	42260 - Natural Pi	ne, Mixed [Deciduous F	Poletimb	er Well	9.7 81	81-110	N/A		2010FMD: Side slope on Creek trib. Mix of big pine and oak with		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	younger ages grown in.		
	Red Maple	5	Pole/Sapling	9		Red Maple	Medium	10 - 20 feet	Sapling			
	Red Oak	5	Log/Pole	14	109	Balsam Fir	Medium	10 - 20 feet	Sapling			
	White Oak	15	Log/Pole	14	109	White Pine	Medium	Variable	Sapling			
	Bigtooth Aspen	5	Log/Pole	12	_							
	Balsam Fir	5	Pole/Sapling	8								
	White Pine	50	Log/Pole	12	81							
	Red Pine	10	Log/Pole	12	81							
	Jack Pine	5	Pole/Sapling	8								
98	42220 - Nat	ural Jack F	Pine S	Sapling I	Medium	2.6 27	Immature	N/A		2020: Most is well stocked jp poles. Still some open area on north.		
	Canopy Species	% Cover	Size Class	DBH	I Age					2010: opening that has filled in with jp 5-10' tall. The north end is still partly open. Stand is under 4.4 acres but jp sapling stand next to		
	Jack Pine	100	Sapling	4	27					oak/pine log/pole stand		
99	42260 - Natural Pi	ne, Mixed [Deciduous S	Sawtimb	er Well	19.7 71	111-140	N/A		2020: Mixed pine with oak along drain. Mixed ages in pine. JP is starting to go out but not too bad at this time. May be best to keep this for		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	thermal cover along drain and let other species grow as jp fall out.		
	Red Maple	5	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling	2000FMD Retention of stand for regeneration purposes i.e. shelterwood		
	Red Oak	2	Log	14		Red Pine	Low	5 - 10 feet	Sapling	Delayed treatment for age/size class diverstiy 2010FMD: Stand is on		
	White Oak	15	Log	14	100	Jack Pine	Low	< 5 feet	Sapling	varied topography from creek drainage up on to flat above creek. Mix of natural pine and white oak. Jack pine is decent looking. rp age 60 and		
	Bigtooth Aspen	10	Log/Pole	10		Black Cherry	Low	5 - 10 feet	Sapling	wp 75 on aged trees. Bigger jp is 75-this may be all jp? Lower stocking		
	White Pine	28	Log/Pole	12	86	White Oak	Low	< 5 feet	Sapling	on north end of stand. Basically this is more oak savannahwith 65-75		
	Red Pine	5	Log/Pole	12	71					ages grown in.		
	Jack Pine	35	Log/Pole	10	71							
100	31022 - Warn	n Season (Grass	Nonsto	ocked	159.8	Immature	Managed Op	pening	2019: FMD Mananged barrens area expanded with additional harvest of adjacent forested stands. TS#043-12. Harvested 2014. Continue rotational burns to develop and maintain barrens habitat. Rough blazing star, harebell, little bluestem, Hill's thistle, yarrow,		



Stand	Level 4 Cover Type			Size De	nsity	y Acres Stand Age BA F			Managed S	Site	General Comments				
103	42210 - Na	tural Red P	ine S	Sawtimber Well		30.3	71	81-110	N/A		2020: TS# 048-12. Harvested 2014. Cut all aspen, jp,rm, bc and				
	Canopy Species	% Cover	Size Class	s DBH Age		Sub-Canopy Specie		Density	Avg. Height	Size	orange marked. Stand looks good. Stocking is lower in areas that were heavier to jp last harvest. Continue to manage as visual break along				
	Red Pine	65	Log/Pole	13	71	Red	d Maple	Medium	5 - 10 feet	Sapling	road at this time.				
	White Pine	30	Log/Pole	10	56	Whi	ite Pine	Medium	Variable	Sapling					
	Red Oak	ak 5 Log		13		Bigtoo	oth Aspen	Low	5 - 10 feet	Sapling					
104	4191 - Mixed Upla Co	and Decidu	ous with S	Sawtimb	er Well	5.2	101	81-110	N/A		2020: Oak and pine logs with rm,wp,rp poles/small logs. Some wp seed/saps growing in gaps and old skid roads. Large older oak scattered				
	Canopy Species	•••		DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	around stand. The XL oak log trees are a concern due to size and age but the rest of the stand just needs to grow in at this time. May be good				
	Red Maple	20	Pole/Sapling	6		Red	d Maple	Medium	>20 feet	Sapling	to thin stand next entry and remove some of the larger oak. Harvested				
	Red Oak	20	Log/XLog	16	101	Whi	ite Pine	Medium	10 - 20 feet	Sapling	1996. Cut all aspen, jp and orange marked. 2000FMDO7R7O4M4A4				
	White Oak	25	Log/XLog	16	101	Re	d Pine	Low	10 - 20 feet	Sapling	Potential or designated old growth. 80 yr old oak mature; considering loud SI. Sampled oak 81 yr old slowed growth at 60 yr. Small JP stand (O/I				
	Bigtooth Aspen	3	Pole	8	25						103) age 62 in nw corner. 2010FMD: 80-100 yr old pine and oak with lo				
	White Pine	20	Log/Pole	11	91						of pine underneath. Some slopes would not be workable. Aspen heavie				
	Red Pine	10	Log/Pole	3					on slopes. Old burnt pine stumps throughout. Red pine saplings and poles are scattered about. White pine in various sizes in understory						
	Jack Pine	2	Pole	8							throughout.				
105	42290 - Natural Mixed Pine Sawt		awtimber Medium		39.2	51	81-110	N/A		2020: Medium density pine with Aspen, Jp, Oak Wp, RM. filling gaps. All of the stands on this penninsula were harvested at the same time but					
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	the amount of residual overstory has determined that three stands now				
	White Oak	25	Log/Pole	12	81	Red	d Maple	Medium	10 - 20 feet	Sapling	exist. This stand has the medium amount of canopy left. Stand 107 ha				
	White Pine	50	Log/Pole	12	51	Bigtoo	oth Aspen	High	10 - 20 feet	Sapling	the most and stand 114 the least. harvested 2002. Cut all rm,aspen,jp				
	Red Pine	21	Log/Pole	12	66	Bals	sam Fir	Low	10 - 20 feet	Sapling	and rp over 18"dbh. 2010: Stand 25 (o/i) made up part of this stand and part of stand 108. 2000FMD: O7W7J4A4. Sampled rp-64 yr ol, slowed				
	Balsam Fir	2	Pole	8		Whi	ite Pine	Low	10 - 20 feet	Sapling	40. After harvest, area may convert to aspen/wp. WLD: manage long				
	Red Oak	2	Log	14		Jac	k Pine	Low	10 - 20 feet	Sapling	term towards late sucessional habitat. O/I stand 29 made up the west				
						Re	d Oak	Low	< 5 feet	Sapling	part of this stand. Second age from this stand data. Looks like both stands 29 nad 25 were prescribed for a delayed harvest -shelterwood				
						Wh	ite Oak	Low	5 - 10 feet	Sapling	type cut with aspen ,jp,mixed hwd and some oak cut. 2010FMD: Some				
											older pine and oak scattered around. Most rp is 55 age with med stocking of wp poles 30-55 age that were released by last harvest(2002 aspen/rm/jp regen good in spots. This stand was cut with pre-inv stand 116 and 108.				
106	622 - Lov	wland Shrub)	Nonsto	cked	7.3	U	nspecified	No						

N/A



	Traverse City Mgt. Unit		Report 7 – Sta	nas	Compartment: 52	The state of the s
					Year of Entry: 2022	DNR
Stand	Level 4 Cover Type	Size Density	Acres Stand Age BA Range	Managed Site	General Comments	MICHIGAN .
· ·						

107	42290 - Natu	Sawtimb	17.1			
	Canopy Species	% Cove	er Size Class	DBH	l Age	Sub-C
	Red Oak	5	Log	16		F
	White Oak	20	Log/XLog	14	111	Big
	White Pine	35	Log/Pole	12	81	\
	Red Pine	40	Log/Pole	12	81	\

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Pine	Medium	Variable	Sapling
White Oak	Low	5 - 10 feet	Sapling
Red Oak	Low	5 - 10 feet	Sapling

111-140

81

2020: Mix of pines and oak. Mixed pine sizes. Looks natural. Pockets of wp and aspen regen. Let stand grow in. Stocking is fine. 2010:Harvested 2002. Cut all rm,aspen,jp and rp over 18"dbh. Stand 25 (o/i) made up part of this stand and part of stand 108. 2000FMD: O7W7J4A4. Sampled rp-64 yr ol, slowed at 40. After harvest, area may convert to aspen/wp. WLD: manage long term towards late sucessional habitat. O/I stand 29 made up the west part of this stand. Second age from this stand data. Looks like both stands 29 nad 25 were prescribed for a delayed harvest -shelterwood type cut with aspen ,ip, mixed hwd and some oak cut. 2010FMD: Big wo/rp/wp scattered around (100 yr) with rp at 70 yr. Aspen/wp/rm/jp regen after last harvest (2002) but not as thick as in pre-inv stands 116 and 106. Let stand develope. Getting big pine look. This stand was cut with other stands on penninsula. This stand is mainly in drains and slope along creek and has higher residual ba of pine and oak.

108	4131 - As	spen, Oak	Po	oletimb	er Well	16.2	54	51-80	N/A	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size
	Red Maple	5	Pole/Sapling	6		Red	Maple	Medium	5 - 10 feet	Saplir
	Red Oak	5	XLog/Log	18	111	Bigtoo	th Aspen	Medium	5 - 10 feet	Saplir
	White Oak	30	Log	14	111	Whi	te Pine	Low	5 - 10 feet	Saplir
	Quaking Aspen	10	Pole	8	54	Jac	k Pine	Low	5 - 10 feet	Saplir
	Bigtooth Aspen	30	Pole	8	54	Black	Cherry	Medium	5 - 10 feet	Saplir
	White Pine	5	Log/Pole	12						
	Jack Pine	8	Pole	8	54					
	Black Cherry	5	Pole/Sapling	6						
	Red Pine	2	Log/Pole	12						

2019: Cut in mid 1960's. Cut aspen, birch, RM. Barrens look with oak scattered through and aspen grown in gaps. Good bit of wo seedlings/saplings in places. Could open up to barrens look. Would want to treat stand to east if done. Would also be fine to hold this stand until next entry. Aspen and red maple could put on some volune with some time. 2000FMD Some open grown rm and large oaks. Juneberry and bc. Scattered pockets of jp. WLD MNFI identified as part of old pineoak barrens. Hooked with stands 79,83,82 in O/I. Is this all barrens with a 40-50 yr class grown in. 2010FMD: This is part of area identified by MNFI as high quality oak/pine barrens. Part of this stand and openings that are adjacent have been in prescribed burn area done by unit in recent years. If possible get this chipped and add to burn area. Aspen is scattered and pole sized but there may be enough wood to get someone to purchase.



Stand	d Level 4 C	over Type	ı	Size De	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
110	42141 - Planted Mixed Pine, Mixed Deciduous			Sapling Poor		64.0	6	1-50	N/A		2021: dropped herbicide release treatment. Pre-commercial release treatment may be future option. 2019: Planted red pine looks alright.
	Canopy Species	% Cover	Size Class	DBI	H Age						JP,RM,BC are species of most concern for red pine freeness to grow. Some oak and aspen in north end but not generally through stand.
	Red Pine	40	Sapling	1	6						Release spray did not happen in 2019 due to equipment issues. Re-
	Red Maple	13	Sapling	1	7						surveyed in 10/2019. 80% Survival and 34% FTG in north part of stand.
	Black Cherry	15	Sapling	1	7						83% survival and 41% FTG in south portion. Most competition is JP and BC with some aspen, oak and rm. Without intervention this stand will
	Jack Pine	20	Sapling	1							likely become rp/jp with a deciduous component. RP should outgrow the
	Red Oak	5	Sapling	1	7						jp. Most of the stands in this area had a red pine component that was
	White Oak	5	Sapling	1	7						much better size and form than the jp in the stands. Some cherry and rm
	Bigtooth Aspen	2	Sapling	1	7						stump sprouts are over 6' tall but it may be good to try to reduce the amount of deciduous competition so I will keep the spraying treatment on
											115 after treatment. Planted 2015. Re-planted 2017. 2005: Should get aspen, remaining jp and red maple out. More aspen in north along creek drain. Leave most rp and any oak if found. 2000FMD Delayed harvesrt for age/size class diversity. J6R4 WLD. MNFI identified as part of a remnant oak-pine barrens. 2010FMD: JP is falling out. Heavy slash load could be problen for control issues during prescribed fires in adjacent stands.
111	622 - Lov	vland Shrul	b	Nonst	ocked	2.2		Unspecified	No		2000FMD A4E4T4W7C4. Deer yards WLD: Beaver has flooded most of stand. Some regen ios occuring with low water levels. Stand swapped from Forested to Non-Forested.
112	6130 - Fir,	Aspen, Ma	ıple I	Poletimb	oer Well	5.1	93	81-110	N/A		Slope going down in to creek and bottomland along creek. Mix of aspen/wp rm/bf/oak
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	aspen/wp mi/bi/oak
	Red Maple	20	Pole/Sapling	g 8		Re	ed Maple	Low	5 - 10 feet	Sapling	
	Red Oak	5	Log/Pole	14	111	Ва	alsam Fir	Low	5 - 10 feet	Sapling	
	White Oak	5	Log/Pole	14		W	hite Pine	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	20	Log/Pole	12	93						
	Balsam Fir	20	Pole/Sapling	g 8							
	White Pine	25	Log/Pole	10	93						
	Red Pine	5	Log/Pole	12							



Stand	Level 4 C	5	Size Density		Acres Stand Age BA Rai			Managed S	Site	General Comments		
113	4310 - Pi	ne, Oak Mi			er Well	5.5	71	81-110	N/A		2020: A good bit of oak saps and seedling in understory. Could reduce canopy and release oak under. Would be ideal if this could be burned	
	Canopy Species		Size Class		l Age	Sub-Canopy		Density	Avg. Height	Size	after harvest to re-sprout oak. This stand has small acreage. Would be	
	Red Maple	20	Pole/Sapling	7		Red Ma	'	Medium	5 - 10 feet	Sapling	best to do with stand to west when that is harvested. May be able to burn	
	Red Oak	2	Log	14		White P		Medium	5 - 10 feet	Sapling	after harvest if times with barrens area rotational burn. 2000FMD: TP1 Delayed treatment for age/size diversity. J5M4A4O7. WLD J6	
	White Oak	18	Log	14	92	Black Ch		Low	5 - 10 feet	Sapling	w/scattered pole and sapling aspen, black cherry, white pine, red pine,	
	Bigtooth Aspen	5	Log	11	71	Red Oa		Low	< 5 feet	Sapling	red maple. Was hooked with 117 and 137 2010 FMD: Mix of jp, rp,oak	
	Red Pine	35	Log	13	71	White O	ak	Medium	< 5 feet	Sapling	rm and aspen in canopy. Oak in regen layer. A lot of r red maple sprouts that mede it to canopy. Must've been cut out a one point.	
	Jack Pine	20	Log/Pole	10	71						sprous that mede it to carropy. Must ve been cut out a one point.	
114	4133 - Aspe	en, Mixed P	ine Sa	apling I	Medium	24.6	19	1-50	N/A		2020: final harvested in 2002 yoe. Cut all aspen,jp,rm Leave RP,WP.	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy	Species	Density	Avg. Height	Size	Low density pine and oak left from last harvest with pockets filling in with aspen, wp, rm, bc, oak. Put aspen,rm,jp in canopy this inventory. Let	
	Red Oak	3	Log	14		White P	ine	Low	5 - 10 feet	Sapling	stand develop. Good wildlife habitat. 2000FMD: J4A4O4. Cut	
	White Oak	5	Log	14	109	Red Oa	ak	Low	5 - 10 feet	Sapling	aspen/jp/some oak. 2010FMD: Left some larger oak and pine +sap/pole	
	Balsam Fir	5	Pole	8		Black Ch	erry	Low	5 - 10 feet	Sapling	sized oak/wp and balsam in last harvest. Now mix of log/pole overstory with aspen/oak/wp/jp/maple understory. Good regen in places. Patchy	
	White Pine	15	Log/Pole	10	75	White O	ak	Low	< 5 feet	Sapling	but filling in . Let stand develope. PI stands 106 and 108 seem to have	
	Red Pine	2	Log/Pole	12	75						been part of same treatment in 2002.	
	Bigtooth Aspen	30	Sapling/Pole	3	19							
	Quaking Aspen	20	Sapling/Pole	3	19							
	Jack Pine	15	Sapling/Pole	4								
	Red Maple	5	Sapling/Pole	3	19							
116	42220 - Nat	tural Jack P	ine	Sapling	y Well	86.8	27 lı	mmature	N/A		2020: Little RP survival. Good jp stocking. Some red pine will likely end	
	Canopy Species	% Cover	Size Class	DBH	l Age						up in canopy as stand matures. 2000FMD: Harvested 1993. JP salvaged with heavy budworm infest, FTP# C-61-355 R2 2010FMD:	
	Red Maple	2	Sapling	3							Red pine trenched and planted. While some red pine has survived, it is	
	Red Pine	5	Sapling	3	27						not keeping up with jp and cherry. Most of the canopy is now jack pine.	
	Jack Pine	87	Sapling/Pole	4	27						Red pine and some jack pine that is more open grown looks pretty unhealthy. Some red pine may survive to reach canopy in developed	
	Black Cherry	5	Sapling	3							stand. Stand was replanted after the first attempt failed. Bad J rooting	
	White Pine	1	Sapling/Pole	4							in first planting effort. Cross trenched it and replanted second time.	
117	330 - Low-	Density Tre	es	Nonsto	ocked	9.9			No		2020: Low density trees. Oak/jp/wp. Jp filling in. Could use some maintenance.	
118	42220 - Nat	tural Jack P	ine S	awtimb	er Well	5.2	76	111-140	N/A		2020: Mature jp. Could cut if nearby or leave for bedding cover. White	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy	Species	Density	Avg. Height	Size	pine is coming in under. Small stand and volume. 2010: Big scattered WO/WP/RP with 65 yr old jp grown in. Stand across road to south is set	
	White Oak	15	XLog/Log	18		Red Ma		Low	< 5 feet	Sapling	for harvest (Boardman Road Pine). Save this stand for Un-cut pocket.	
	Bigtooth Aspen	3	Log/Pole	11	76	White P	ine	Low	< 5 feet	Sapling	,	
	White Pine	8	XLog/Log	18	109	Red Oa	ak	Low	< 5 feet	Sapling		
	Red Pine	5	Log/Pole	12	109	White O	ak	Low	< 5 feet	Sapling		
	Jack Pine	65	Log/Pole	11	76							
	Black Cherry	2	Pole/Log	9								
	•		Pole									



Stand	d Level 4 Cover Type			Size De	ensity	Acres Stand Age BA Range			Managed S	Site	General Comments		
119	4191 - Mixed Upl Co	and Decidu onifer	ous with Pole	oletimber Medium		m 39.4	58	1-50	N/A		2020: Barrens look. Would be good to clean this up and re-sprout the aspen/rm but not much volume per acre. Some large oak scattered		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy	Species	Density	Avg. Height	Size	around. May be able to sell when stand to south is harvested. 2000FMD: Quaking and big tooth aspen. WLD aspen3-5 dbh, low-med		
	Red Maple	5	Pole/Sapling	5		Red Maj	ple	Low	10 - 20 feet	Sapling	density 20ft tall with pole size mixed pine, bc, rm oak. 2010FMD: Aspen		
	Red Oak	2	Log	14		Quaking A	spen	Low	10 - 20 feet	Sapling	is poor quality and low stocking. Might not be a commercial harvest.		
	White Oak	20	Log/XLog	15	109	Balsam	Fir	Low	5 - 10 feet	Sapling	Would be good to ge this cut and restore barrens look.		
	Quaking Aspen	33	Pole	8	58	White Pi	ine	Low	10 - 20 feet	Sapling			
	White Pine	30	Log/Pole	12		Jack Pi	ne	Low	5 - 10 feet	Sapling			
	Jack Pine	5	Pole	8		Black Ch	erry	Low	10 - 20 feet	Sapling			
120	4130	- Aspen	;	Sapling	g Poor	42.2	8 lm	nmature	N/A		2020: Clearcut 2013 with oak and pine retention. Some areas with good		
	Canopy Species	% Cover	Size Class	DBH	l Age						big tooth aspen regen. West part of stand had more poor quality quaking aspen that is not regenrating as well. QA and rm getting broused		
	Bigtooth Aspen	65	Sapling	1	8						heavily. Cherry, wp and rm filling in gaps. Canopy called on new stand.		
	Quaking Aspen	15	Sapling	1	8						Accept lower stocking on west part of stand. This will create good habitat		
	Black Cherry	5	Sapling	1	8						for some species.		
	White Pine	5	Sapling	1									
	Red Maple	10	Sapling	1	8								
121	Conifer			32.8 41 Sub-Canopy Species		31-110	N/A Avg. Height Size		2020: Mix of large log- oak, pine, aspen with poles. Oak seedlings under. Could leave this be or could get aspen out with some of the oak. The wp is mainly pole sixed. Would end up with a difficult two aged				
	Red Maple	% Cover	Pole/Sapling	9 6	41	Red Ma	•	Density Low	10 - 20 feet	Sapling	stand but this stand does seem to be an extension of the barrens type		
	Red Maple Red Oak	3	XLog/Log	18	109	Balsam	'	Low	10 - 20 feet	Sapling	stand to the north. This stand has a large component of old large oak. Most red maple is sub-merchantable at this time. May be best to let this		
	White Oak	30	XLog/Log XLog/Log	18	109	White Pi		Medium	Variable	Sapling	stand grow in before trying to treat. In the future may want to keep his		
	Bigtooth Aspen	20	Pole/Log	8	41	Bigtooth A		Low	10 - 20 feet	Sapling	stand in the barrens look. 2000FMD: O8A4 Retention of stand for		
	White Pine	35	Pole/Log	8	41	Red Oa	*	Low	5 - 10 feet	Sapling	retention purpose i.e. shelterwood. "Leave aspen mature and harvest leaving some residual oak. Will convert to aspen. FMD Manage long		
	Red Pine	2	Pole/Log	9	71	White O		Low	5 - 10 feet	Sapling	term towards ate sucessional habitat(white pine). 2010 FMD: White		
	rtod i ilio		1 010/209	<u> </u>	71	vviiite O	rait	LOW	0 101000	Caping	I pine is filling in understory with thick regen in spots. Older age of pine/oak/aspen with areas of younger wp and aspen. Could try to get		
											aspen out in places where wp regen is not so thick. Red maple sprouts throughout stand that made canopy level. Looks like maple was cut out 15-20 yr ago. West side seems more possible for an aspen harvest.		
122	42220 - Nat	tural Jack P	ine Po	oletimb	er Well	66.6	76	51-80	N/A		2020: East part of this stand harvested and planted last entry. (st131)		
	Canopy Species	% Cover	Size Class		I Age	Sub-Canopy	Species	Density	Avg. Height	Size	RP much better than jp in stand. Jp is declining and falling out of stand. This should be harvested and planted to rp. A few large oak scattered in		
	Red Maple	2	Log/Pole	12	46	Red Maj	ple	Low	5 - 10 feet	Sapling	stand. Green-up concerns but jp may fall out before next entry. It would		
	White Oak	2	Log	16	111	White Pi	ine	Low	5 - 10 feet	Sapling	be good to wait if we can to let adjacent stand grow in. Motorcycle and snowmobile trails. 2010: Large area of jack and red pine. Variable		
	Bigtooth Aspen	2	Pole	8		Jack Pi	ne	Low	5 - 10 feet	Sapling	stocking mix of both species. RP age 65 and some jp in that age but a		
	Red Pine	5	Log	14	76	Black Ch	erry	Low	5 - 10 feet	Sapling	lot of the jp is 35 yrs old. Stocking is variable but low BA in most areas.		
	Jack Pine	87	Pole/Log	9	76						East of the snowmobile trail or ORV trail the stocking is better and more		

of the 65 yr old jp is still standing. A few scattered oak, cherry and maple

and pockets of poor quality aspen. Aspen is declining as is the older jp.

Black Cherry

Pole/Log

2



Stand	Level 4 C	Size Density		Acres	Stand Age B	Stand Age BA Range		iite	General Comments		
123	3104 - Degraded		Nonsto	cked	2.3	U	nspecified	Managed Op	pening		
124	6132 - Mixed Lo	wland Fore edar	st with	Sawtimber Well		19.0	9.0 126 51-80		N/A		2020: Lowland mix along drain. Good bedding, escape and travel for wildlife. 2000FMD: E5C4F4C7 Fir in medium to poor condition. Stand
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	converting to lowland hardwoods. Deer yard. second age data from o/i stand 15 aspen. Q type along intermintent stream aspen dominated in
	Red Maple	20	Log/Pole	10		Re	d Maple	Medium	10 - 20 feet	Sapling	that stand. 2010 Fmd: Low strip along drain. Winter deer bedding area
	Red Oak	2	Log	14		Ва	Isam Fir	Medium	10 - 20 feet	Sapling	along and in drain.
	Paper Birch	8	Log/Pole	12		Wh	nite Pine	Low	10 - 20 feet	Sapling	
	Bigtooth Aspen	15	Log/Pole	12	83					'	_
	Balsam Fir	20	Pole	8							
No	rthern White Cedar	25	Log/Pole	12	126						
125	3104 -	Degraded		Nonsto	cked	1.7	U	nspecified	Managed Op	pening	
126			24.0		54.00	NI/A		2000 Pedala and a second and a second and a second and			
120			ii iC	Sawtiiiibt	er vveii	31.8	71	51-80	N/A		2020: Red pine over story remaining after last harvest. A few oak and
120	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	wp also left. Stocking is variable. Red pine is getting large. Parts of
120	Canopy Species Red Pine					Sub-Ca				Size Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps.
120		% Cover	Size Class	DBH	Age	Sub-Car Re	nopy Species	Density	Avg. Height		wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to
120		% Cover	Size Class	DBH	Age	Sub-Car Re Wh	nopy Species d Maple	Density Low	Avg. Height 10 - 20 feet	Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain
120		% Cover	Size Class	DBH	Age	Sub-Car Re Wh	nopy Species d Maple nite Pine	Low Low	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in
120		% Cover	Size Class	DBH	Age	Sub-Car Re Wr Re Ja	nopy Species d Maple nite Pine ed Pine	Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet	Sapling Sapling Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble
120		% Cover	Size Class	DBH	Age	Sub-Cal Re Wh Re Ja Quak	nopy Species d Maple nite Pine ed Pine ck Pine	Low Low Low Medium	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet	Sapling Sapling Sapling Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of
120		% Cover	Size Class	DBH	Age	Sub-Cal Re Wh Re Ja Quak	nopy Species d Maple hite Pine ed Pine ck Pine king Aspen	Low Low Low Medium Medium	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of oak and some has grown past brousing. Much of the oak is heavily
127		% Cover	Size Class Log	DBH	Age 71	Sub-Cal Re Wh Re Ja Quak	nopy Species d Maple nite Pine ed Pine ck Pine ing Aspen nite Oak	Low Low Low Medium Medium Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet 10 - 20 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of oak and some has grown past brousing. Much of the oak is heavily broused.
	Red Pine	% Cover	Size Class Log	DBH 15	Age 71	Sub-Car Re Wh Re Ja Quak Wh Bigto	nopy Species d Maple hite Pine ed Pine ck Pine ck Pine hite Oak oth Aspen	Low Low Low Medium Medium Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of oak and some has grown past brousing. Much of the oak is heavily broused. 2020: Stocking variable. Aspen and jp dropping out of stand. Stand is not well invested at this time. Could harvest and plant rp. Would ahve to
	Red Pine 42290 - Nate	% Cover	Size Class Log	DBH 15	Age 71 Provided the results of the r	Sub-Can Re Wh Re Ja Quak Wh Bigto	nopy Species d Maple hite Pine ed Pine ck Pine ck Pine hite Oak oth Aspen	Density Low Low Low Medium Medium Low Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of oak and some has grown past brousing. Much of the oak is heavily broused. 2020: Stocking variable. Aspen and jp dropping out of stand. Stand is not well invested at this time. Could harvest and plant rp. Would ahve to control aspen. 2000YOE Retention of stand for regeneration purposes i.e. shelterwood. Hold stand until jp matures-10-15 yrs. 2019FMD: Jp
	Red Pine 42290 - Natu Canopy Species	% Cover	Size Class Log Pine Size Class	DBH 15 Sawtimbe	Age 71 Provided the results of the r	Sub-Cal Re Wh Re Ja Quak Wh Bigto 9.0 Sub-Cal	nopy Species d Maple hite Pine ed Pine ck Pine ck Pine hite Oak oth Aspen 93 nopy Species	Low Low Medium Medium Low Low Low Medium Density	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of oak and some has grown past brousing. Much of the oak is heavily broused. 2020: Stocking variable. Aspen and jp dropping out of stand. Stand is not well invested at this time. Could harvest and plant rp. Would ahve to control aspen. 2000YOE Retention of stand for regeneration purposes i.e. shelterwood. Hold stand until jp matures-10-15 yrs. 2019FMD: Jp looks better in this stand. Aspen and jp look like they are 72 age from
127	Red Pine 42290 - Natu Canopy Species Red Maple	% Cover 100 ural Mixed F % Cover 3	Size Class Log Pine Size Class Pole	DBH Sawtimbe DBH 8	Age 71 Provided the results of the r	Sub-Cal Re Wh Re Ja Quak Wh Bigto 9.0 Sub-Cal Re	nopy Species d Maple hite Pine ed Pine ck Pine hite Oak oth Aspen 93 nopy Species d Maple	Low Low Low Medium Medium Low Low Low Low Low Low 81-110 Density Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of oak and some has grown past brousing. Much of the oak is heavily broused. 2020: Stocking variable. Aspen and jp dropping out of stand. Stand is not well invested at this time. Could harvest and plant rp. Would ahve to control aspen. 2000YOE Retention of stand for regeneration purposes i.e. shelterwood. Hold stand until jp matures-10-15 yrs. 2019FMD: Jp looks better in this stand. Aspen and jp look like they are 72 age from pfev. inv. Older rp and wp-82 yr. with a good bit of wp (4-6") dbh in
127	Red Pine 42290 - Natu Canopy Species Red Maple White Oak	% Cover 100 ural Mixed F % Cover 3 5	Size Class Pine Size Class Pole Log	DBH Sawtimbe DBH 8 14	Age 71 er Well Age	Sub-Cal Re Wh Re Ja Quak Wh Bigto 9.0 Sub-Cal Re	nopy Species d Maple hite Pine ed Pine ck Pine hite Oak oth Aspen 93 nopy Species d Maple hite Pine	Low Low Low Medium Medium Low Low Low Low Low Low 81-110 Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of oak and some has grown past brousing. Much of the oak is heavily broused. 2020: Stocking variable. Aspen and jp dropping out of stand. Stand is not well invested at this time. Could harvest and plant rp. Would ahve to control aspen. 2000YOE Retention of stand for regeneration purposes i.e. shelterwood. Hold stand until jp matures-10-15 yrs. 2019FMD: Jp looks better in this stand. Aspen and jp look like they are 72 age from
127	A2290 - Natu Canopy Species Red Maple White Oak Bigtooth Aspen	% Cover 100 10	Pine Size Class Pole Log Log	DBH	Age 71 Per Well Age 83	Sub-Cal Re Wh Re Ja Quak Wh Bigto 9.0 Sub-Cal Re	nopy Species d Maple hite Pine ed Pine ck Pine hite Oak oth Aspen 93 nopy Species d Maple hite Pine	Low Low Low Medium Medium Low Low Low Low Low Low 81-110 Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of oak and some has grown past brousing. Much of the oak is heavily broused. 2020: Stocking variable. Aspen and jp dropping out of stand. Stand is not well invested at this time. Could harvest and plant rp. Would ahve to control aspen. 2000YOE Retention of stand for regeneration purposes i.e. shelterwood. Hold stand until jp matures-10-15 yrs. 2019FMD: Jp looks better in this stand. Aspen and jp look like they are 72 age from pfev. inv. Older rp and wp-82 yr. with a good bit of wp (4-6") dbh in younger age. Aspen is still in pretty good shape. Could let this stand till
127	A2290 - Nato Canopy Species Red Maple White Oak Bigtooth Aspen White Pine	% Cover 100	Pine Size Class Pole Log Log Log Log/Pole	DBH 15 Sawtimbe DBH 8 14 14 12	Age 71 Page 83 93	Sub-Cal Re Wh Re Ja Quak Wh Bigto 9.0 Sub-Cal Re	nopy Species d Maple hite Pine ed Pine ck Pine hite Oak oth Aspen 93 nopy Species d Maple hite Pine	Low Low Low Medium Medium Low Low Low Low Low Low 81-110 Density Low Low	Avg. Height 10 - 20 feet 5 - 10 feet 10 - 20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height 10 - 20 feet 10 - 20 feet	Sapling	wp also left. Stocking is variable. Red pine is getting large. Parts of stand have been underplanted with red pine but not all. Patchy aspen regen understory. Oak saplings and seedlings under pine and in gaps. 2000fmd: R7A2R1A1 Stand harvested in 1994 and understory planted to rp. aspen and rm regen also present. red pine overstory can remain until next harvest-probally 30 yr. WLD black cherry and maple saps also present. 2010. Saw some underplanted rp on the west side of stand in the more open areas. Stand was harvested with rp retained-varialble stocking. Oak,rm,jp,bc,aspen understory has developed. a good bit of oak and some has grown past brousing. Much of the oak is heavily broused. 2020: Stocking variable. Aspen and jp dropping out of stand. Stand is not well invested at this time. Could harvest and plant rp. Would ahve to control aspen. 2000YOE Retention of stand for regeneration purposes i.e. shelterwood. Hold stand until jp matures-10-15 yrs. 2019FMD: Jp looks better in this stand. Aspen and jp look like they are 72 age from pfev. inv. Older rp and wp-82 yr. with a good bit of wp (4-6") dbh in younger age. Aspen is still in pretty good shape. Could let this stand till



Stand Level 4 Cover Type				Size De	Size Density		Stand Age	BA Range	Managed Site		General Comments		
130	42290 - Natu	ıral Mixed F	Pine	Sawtimber Well		30.7	83	111-140	N/A		2020: Good pine site. Mixed pine sizes. Species mix varies through		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	stand as well as stocking. Fair amount of aspen saplings in understory 10-20'. Areas with a good bit of wp understory 5-20'. Some areas with		
	Red Oak	2	Log	14		Bigto	ooth Aspen	High	5 - 10 feet	Sapling	oak and rm seedlings. Some bigger older wp/rp/oak mixed in. This		
	White Oak	5	Log	14	109	WI	hite Pine	Medium	10 - 20 feet	Sapling	stand was last treated with stand 133 but had less aspen. Could thin		
	White Pine	40	Log/Pole	12							heavily and hope that gaps fill in or wait for understory to become merchantable. Oak seems to be coming in along road edges where the		
	Red Pine	51	Log	12	83						light is more ideal for mid tolerant species. Would be best to harvest and		
	Red Maple	1	Pole	8							eliminate advanced regeneration before re-planting. 2000FMD		
	Bigtooth Aspen	1	Pole	6							prescribed to harvest jp and aspen. TS# 025-02. TCR 2005. Cut aspen jp,rm and orange marked. 2010FMD: Aspen regen under pine 5-10 ft		
131	330 - Low-l	Density Tre	es	Nonsto	ocked	84.1	0		42111 - Planted Mixed Decid	,	tall not going anywhere fast due to canopy closure. Pine stocking is fine Let this stand grow in. BA 70-170. Avg 124. 2018: Fall regen check. 35% mortality-73% FTG. Trenches are filled in. Re-plant had poor survival. Part of first planting was killed by herbicide		
						Sub-Ca	nopy Species	s Density	Avg. Height	Size	along with most of the jp. Stand will need to be grown as is or retrenched and started over. Trenches are too filled in to re-plant without		
						R	led Pine	Low	>20 feet	Log	re-trenching. 2015: TS# 046-12. Harvested winter 2014-15. Trench in		
						R	Red Oak	Low	>20 feet	Pole	summer 2015 and plant red pine summer 2016. Survival was not good		
											due to dry spring. Regen check 8/2017. 663 tpa rp. 733 tpa non target-cherry, rm, aspen. Sprayed 2017 to control maple and cherry competition. Re-plant 5/2018 621 TPA 2000FMD: TP1 Delayed treatment for age/size diversity. J5M4A4O7. WLD J6 w/scattered pole and sapling aspen, black cherry, white pine, red pine, red maple. 2010FMD: Seems like red pine was planted with a lot of jack pine growr in. Jack pine has been falling out of this stand and red maple has been growing in understory. Towards south end near creek there is more oak and balsam in understory. Stand 133 to west has the jp cut out and a good bit of oak in understory.		
132	310 - Herbac	eous Open	land	Nonsto	ocked	1.0		Unspecified	No		old well pad		
133	42210 - Na	tural Red Pi	ine	Sawtimb	er Well	21.2	83	111-140	N/A		2020: Same as stand 130 but this stand has heavier understory developed; mainly aspen. Good pine ground but lost to aspen		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	understory. Substantial aspen under story. Patchy; so if red pine		
	White Pine	5	Log	14		Re	ed Maple	Medium	10 - 20 feet	Sapling	overstory was removed, many areas wood be poorly stocked. Some oak		
	Red Pine	91	Log	13	83	WI	hite Pine	Low	Variable	Sapling	growing in along road where light is better. Could open canopy more antry to get new age developed. 2010FMD: TS# 024-02. TCR 2005. Cut		
	Red Maple	2	Pole	8		Bigto	ooth Aspen	High	10 - 20 feet	Sapling	all aspen,rm, jp and orange marked. last entry cut all but rp and a little		
	White Oak	2	Pole	8		W	hite Oak	Low	< 5 feet	Sapling	wp. Good aspen regen in understory with good stocking 5-10 ft tall.		



Stand	Level 4 C	over Type	ı	Size De	nsity	Acres Sta	and Age B	A Range	Managed S	Site	General Comments
134	4191 - Mixed Upla Co	and Decidu onifer	uous with	Poletimb	er Well	20.4	56	81-110	N/A		2019: Last harvest around 1965? Cut aspen, balsam, jp. Cut no wp,rp, hemlock. Adjusted stand age. Most of stand is various ages of wp with
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canop	y Species	Density	Avg. Height	Size	rm. Some pockets of aspen with scattered rp and oak. Stand has been created along drain as remnant of surrounding harvests. Good travel and
	Red Maple	35	Pole/Log		56	Red M	aple	Low	10 - 20 feet	Sapling	bedding corridor. Some wet area along drainage. May want to cut rm
	White Oak	5	Log	12	93	Balsar	n Fir	Low	10 - 20 feet	Sapling	and aspen in future to creat habitat and brouse along drain. Deer may
	Quaking Aspen	8	Log/Pole	11	56	White	Pine	Medium	10 - 20 feet	Sapling	brouse it completely out. White pine will likely to continue to fill this in. 2000FMD:residual stand. cut residual aspen -will change mgt obj. stand
	Bigtooth Aspen	10	Log/Pole	11	56	Black C	herry	Low	10 - 20 feet	Sapling	may eventually be total harvested and convert to aspen. WLD: rm,bc and
	White Pine	35	Pole/Log	8							asp saps. Occasional rp/wp saps. Thick pole rm aspen, bf, white cedar
	Red Pine	3	Log	12							and wp to north along drainage. Was hooked with stand 140 in last inv. 2010FMD: Med-low quality aspen/pine/fir/maple. Stocking med-low.
	Jack Pine	2	Log/Pole	10							Wood make good habitat cut but let stand grow in more before that.
	Red Oak	2	Log	14							Estimated aspen age 50-60. Various aged wp-much in the 50-60 yr class.
135	42210 - Na	tural Red P	Pine	Sawtimb	er Well	22.2	76	51-80	N/A		2010: Mid stocked rp with considerable understory formed after last
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canop	y Species	Density	Avg. Height	Size	thinning and harvest. Pockets of wp saplings and poles and a good
	Red Oak	2	Log	14	92	Red M	• •	Medium	10 - 20 feet	Sapling	amount of rm,jp with some aspen clones. Not much hope for getting this stand back to red pine at this point. Could cut back to seed trees and
	White Oak	3	Log	14		Bigtooth	Aspen	Low	10 - 20 feet	Sapling	hope that the rest would fill in. May end up with a poor stocked stand.
	Bigtooth Aspen	2	Log	11		White	Pine	Medium	10 - 20 feet	Sapling	May want to let the understory grow in until it is merchantable. This would take a while. 2000fmd Stand Harvested in 1994 R7R4A2 Cut all
	White Pine	5	Log	16		Jack F	Pine	Low	10 - 20 feet	Sapling	merchantable except oak and red pine. WLD: red maple,bc, aspen saps
	Red Pine	88	Log	14	76	Red C	Dak	Low	10 - 20 feet	Sapling	with occasional wp and rp saps. 2010FMD: Red pine overstory with
						White	Oak	Low	10 - 20 feet	Sapling	scattered wp and oak after jp,rm aspen and bc cut out. Aspen regen with jp and wp (10-20 ft). A little rp regen.
136	42210 - Na	tural Red P	Pine	Sawtimb	er Well	25.3	76	111-140	N/A		2020: This could be cut and planted to rp but might want to wait for
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canop	y Species	Density	Avg. Height	Size	adjacent stand to grow in that was recently planted. If aspen falls out of stand that would be fine. If thinned and aspen take out, aspen sprouts
	Red Oak	4	Log	14	92	Red M	aple	Low	10 - 20 feet	Sapling	would make it unmanageable for pine in future. 2010 FMD Was hooked
	White Oak	3	Log	12		Red C	Dak	Low	10 - 20 feet	Sapling	with stand 141 in last inv, Similar to pre-inv stand 142 to south but this
	Bigtooth Aspen	10	Log/Pole	11		Balsar	n Fir	Low	5 - 10 feet	Sapling	one has not had jp or aspen or rm removed.
	White Pine	6	Log/Pole	12		White	Pine	Medium	10 - 20 feet	Sapling	
	Red Pine	75	Log	12	76						
-	Jack Pine	2	Log/Pole	11	76						
137	42290 - Nati			Sawtimb	er Well	15.8	71	111-140	N/A		2020: Good pine site. Filling in with wp in understory. Mixed sizes. Small fire in east side in 2017. Could try to harvest stand and re-plant to
	Canopy Species	% Cover	Size Class		Age	Sub-Canop	y Species	Density	Avg. Height	Size	rp. May be difficult to eliminate existing wp understory. Could seed tree
	Red Maple	3	Pole	8		Red M	aple	Low	10 - 20 feet	Sapling	and let this go to wp. May not end up with much wp understory after
	Red Oak	2	Log	14		Bigtooth	Aspen	Low	10 - 20 feet	Sapling	harvest. Not a lot of rm/aspen in sub-canopy at this point but there are pockets. Some of this pine is getting on the large size. 2000FMD:
	Paper Birch	1	Pole	9		White	Pine	Medium	10 - 20 feet	Sapling	Harvested 1993. Cut aspen and orange marked. Retention of overstory
	White Pine	40	Log	15		Red F	Pine	Low	5 - 10 feet	Sapling	for regen purpose.i.e.shelterwood. WLD: several large rp and wp.
				1							acceptance and 2010 FMD. Come alder acceptance and unlike him

aspen had been removed in last sale.

occasional oak. 2010 FMD: Some older scattered red and white pine -

first age. Some younger ages growing in. Has been thinned before. Going to white pine and mixed age stand. Aspen saplings indicate that

must be the 113 age from last inventory. Most pine is 55-60. Make this

Red Pine

Bigtooth Aspen

52

2

14 71

9

Log

Pole



Canopy Species	Michigan
Canopy Species % Cover Size Class DBH Age Red Maple 8 Pole 8 Red Maple 8 Pole 8 Red Maple 8 Red Maple 8 Pole 8 Red Maple 9 Sub-Canopy Species With Edward Plane 1 Pole 2 Pole 1 Pole 1 Pole 1 Pole 1 Pole 2 Pole 2 Pole 1 Pole 2 Pole 2 Pole 3 Pole 3 Pole 2 Pole 3 Pole 2 Pole 3 Pole 3 Pole 2 Pole 3 Pole 4 Pole 3 Pole 3 Pole 4 Pole 3 Pole 4 Pole 3 Pole 4 Pole 3 Pole 4 Pole 4 Pole 4 Pole 4 Pole 3 Pole 4 P	
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140 42210 - Natural Red Pine Sawtimber Poor 67.0 76 51-80 N/A Canopy Species % Cover Size Class DBH Age Red Maple 5 Pole 8 Black Cherry 5 Pole 8 Sub-Canopy Species Density Avg. Height Size Red Maple 5 Pole 8 Sub-Canopy Species Density Avg. Height Size Overmature. This would create two aged stand but the wp hold through an aspen rotation. Would create good habitat Sub-Canopy Species Black Cherry Low 5 - 10 feet Sapling Bigtooth Aspen 25 Log 14 76 Black Cherry Low 5 - 10 feet Sapling Bigtooth Aspen 25 Log 14 76 White Pine Low 5 - 10 feet Sapling Bigtooth Aspen 25 Log 14 76 White Pine 36 Pole/Log 8 76 Black Cherry Low 5 - 10 feet Sapling Bigtooth Aspen 25 Log 14 76 Black Cherry Low 5 - 10 feet Sapling Bigtooth Aspen 25 Log 14 76 Black Cherry Low 5 - 10 feet Sapling Bigtooth Aspen 25 Log 14 76 Black Cherry Low 5 - 10 feet Sapling Bigtooth Aspen 25 Log 14 76 Black Cherry Low 5 - 10 feet Sapling Bigtooth Aspen 25 Log 14 76 Black Cherry Low 5 - 10 feet Sapling Bigtooth Aspen 25 Log 14 76 Black Cherry Low 5 - 10 feet Sapling Black Cherry Low 5 - 10 feet	
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Black Cherry 5 Pole 8 Black Cherry Low < 5 feet Sapling Black Cherry 5 Pole 8 Black Cherry Low < 5 feet Sapling Black Cherry 5 Pole 8 Black Cherry Low < 5 feet Sapling 141 4311 - Pine, Aspen Mix Sawtimber Well 13.6 46 81-110 N/A Canopy Species % Cover Size Class DBH Age Red Maple 5 Pole 8 Bigtooth Aspen Bigtooth Aspen 10 Pole/Log 8 76 Bigtooth Aspen 25 Log 14 76 White Pine 36 Pole/Log 8 46 Red Pine 5 Log/Pole 12 76 Black Cherry Low < 5 feet Sapling Sapling Some rm. Some jp and rp saplings were left. Looks like al left and it is thick in spots-more-so on the east side. Left satisfies the spot size of the sapling Made canopy call on redidual rp so jp regeneration is second the satisfies and the sapen of the sapling Size Sub-Canopy Species Density Avg. Height Size Red Maple Low 5 - 10 feet Sapling White Oak 15 Log/Pole 13 109 Bigtooth Aspen Low 5 - 10 feet Sapling Black Cherry Low 5 -	
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141 4311 - Pine, Aspen Mix Sawtimber Well 13.6 46 81-110 N/A Canopy Species	me of all bc
Canopy Species % Cover Size Class DBH Age Red Maple 5 Pole 8 Red Maple 2 Log 14 109 White Oak 15 Log/Pole 13 109 Quaking Aspen 10 Pole/Log 8 76 Bigtooth Aspen 25 Log 14 76 White Pine 36 Pole/Log 8 46 Red Pine 5 Log/Pole 12 76 Sub-Canopy Species Density Avg. Height Size Red Maple Low 5 - 10 feet Sapling Sapling Sapling Sub-Canopy Species Density Avg. Height Size Red Maple Low 5 - 10 feet Sapling	
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White Oak 15 Log/Pole 13 109 Quaking Aspen 10 Pole/Log 8 76 Bigtooth Aspen 25 Log 14 76 White Pine 36 Pole/Log 8 46 Red Pine 5 Log/Pole 12 76 White Oak 15 Log/Pole 13 109 White Pine Low 5 - 10 feet Sapling	for wildlife.
Quaking Aspen 10 Pole/Log 8 76 Bigtooth Aspen 25 Log 14 76 White Pine 36 Pole/Log 8 46 Red Pine 5 Log/Pole 12 76	
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White Pine 36 Pole/Log 8 46 Red Pine 5 Log/Pole 12 76	
Red Pine 36 Pole/Log 8 46	reek levee a
Black Cherry 2 Pole 9	
42220 - Natural Jack Pine Sapling Well 29.3 27 Immature N/A 2020: This stand was planted but poor red pine survival wi	
Canopy Species % Cover Size Class DBH Age natural jp. Some rp found in canopy in areas but generally 2000FMD area was harvested and replanted in 1994. WLI	
Red Maple 5 Sapling 2 saps.2010FMD: Jp is doing alright but rp looks poor. Mayb	problems
White Pine 5 Sapling 4 from the start with j-rooting or planting stock. Some red pin	may survive
Red Pine 10 Sapling/Pole 3 27 and remain in the canopy.	
Jack Pine 75 Sapling/Pole 4 27	
Black Cherry 5 Sapling 2	



Stand	and Level 4 Cover Type Size Density					Acres Stand Age BA Range			Managed S	iite	General Comments		
143	42290 - Nat	ural Mixed	Pine S	awtimb	er Well	10.3	83	111-140	N/A		2020: Mixed sizes of white pine. Stocking is variable. This stand could likely be cut and planted. Not too much understory formed at this time.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano _l	py Species	Density	Avg. Height	Size	2002FMD: W5R5O7W7m4a4.2010 FMD Mix of WP/RP/JP 62-82 year		
	Red Maple	3	Pole/Log	8		Red N	<i>Maple</i>	Low	10 - 20 feet	Sapling	old. Some older scattered pine. I little heavier to wp than stand to west.		
	Bigtooth Aspen	5	Pole	8		Bigtooth	n Aspen	Low	10 - 20 feet	Sapling	Looks like aspen was cut out in last entry. Aspen and wp regen 10-20 ft tall. Getting a big pine look.		
	White Pine	50	Log/Pole	12	83	White	Pine	Medium	10 - 20 feet	Sapling	tall. Getting a big pine look.		
	Red Pine	35	Log/Pole	12	83								
	Jack Pine	5	Pole/Log	9									
	Black Cherry	2	Pole/Sapling	6									
145	5 42290 - Natural Mixed Pine			Sawtimber Well		63.2	71	81-110	N/A		2020: Consider harvesting this and planting red pine. Red pine looks good in stand. Jp is falling out. Ground lays good for managing.		
	Canopy Species	% Cover	Size Class		Age	Sub-Cano _l	py Species	Density	Avg. Height	Size	Stocking is variable as is species mix between jp/rp. JP would have to		
	Red Pine	40	Log	13	71	Red N	<i>Maple</i>	Low	10 - 20 feet	Sapling	be controled if this is planted as would cherry.		
	White Pine	2	Log/Pole	10	56	Black (Cherry	Low	10 - 20 feet	Sapling			
	Jack Pine	42	Log/Pole	11	71								
	Red Oak	1	Log/Pole	12									
	Red Maple	10	Pole	9									
	Bigtooth Aspen	5	Log	11	71								
146	42290 - Natural Mixed Pine Sawtimber We				er Well	35.8 88 51-80			N/A		2020: JP/RP stand. Stocking and species mix is variable. JP is falling		
	Canopy Species	% Cover Size Class		DBH Age		Sub-Cano	py Species	Density	Avg. Height Size		out of stand. RP looks average. A few white oak scattered around in stand. Consider cutting and planting red pine. FMD-1992 low site inde		
	Red Maple	5	Pole/Sapling	6		Red N	Maple	Low	< 5 feet	Sapling	for jp and rp. delayed treatment for age/class diversity. 2002 old stand 1 -		
	Red Pine	35	Log	12	88	8 Black Cherry Low < 5 feet Sapling J4R4 2010 FMD; So		J4R4 2010 FMD; Some larger pine but most is pole sized and stunted					
	Jack Pine	55	Log/Pole	11	88						looking. Poor looking site for jp and red pine. Let stand develope as the trees have room to grow.		
	Black Cherry	5	Pole	8							tiess have from to grow.		
147	42210 - Na	tural Red P	rine S	awtimb	er Well	37.8	71	81-110	N/A		2020: Healthy looking stand. Nice rp. Stocking is vairiable 50-130BA. More wp in canopy in se part of stand and heavier wp seedling in this		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano _l	py Species	Density	Avg. Height	Size	area. Most everything else but wp/rp and some oak cut out in last		
	Red Oak	1	Log	14		Red N	Maple	Low	10 - 20 feet	Sapling	harvest so new age forming under with aspen, oak, pine. 2002FMD:		
	White Oak	2	Log	12		Bigtooth	n Aspen	Low	10 - 20 feet	Sapling	R4R7A4J4W7W4. Prescribed to remove jp aspen and some wp and		
	Red Pine	94	Log	13	71	White	Pine	Low	< 5 feet	Sapling	leave rp 2010 FMD: Pretty pure red pine stand after jp and aspen removed. Aspen growing in under. Red pine looks like it might be		
	White Pine	3	Log	14	71	Jack	Pine	Low	10 - 20 feet	Sapling	stagnant.		
						Black (Cherry	Low	10 - 20 feet	Sapling			

Red Oak

White Oak

Sapling

Sapling

10 - 20 feet

10 - 20 feet

Low

Low



Stand	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
148	42210 - Na	tural Red P	ine	Sawtimb	er Poor	57.0	93	1-50	N/A		Mixed density red pine residual. Some areas nearly full stocking but
	Canopy Species	% Cover	Size Class	s DBI	H Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	average around 50. Some of the understory red pine is growing pretty well along with natural jp. Not much growth under the higher stocked
	Red Pine	100	Log	14	93	Re	ed Maple	Low	5 - 10 feet	Sapling	red pine canopy. Recommend letting this stand grow in. Seems like
				'		R	ed Pine	Medium	5 - 10 feet	Sapling	getting the canopy off at this time would cause excessive damage to
						Ja	ack Pine	Medium	5 - 10 feet	Sapling	planted pine. fmd 2002: area thinned in 1998 and understory planted spring of 1999 and 2000. Survival looked good as of oct 2000. 2010.
						Bla	ck Cherry	Low	5 - 10 feet	Sapling	FMD: Planted rp surviving in the areas with less canopy. Growth is not
											good for planted pine. May be starting to grow well but snow is hard or it. Jp is out growing rp but jp stocking is not very high. Let second age develope.
149				Sapling		18.1	29	Immature	N/A		2020: Some surviving red pine in canopy but most is ove-topped by jack pine Good stocking considering both species. 2000FMD: Cut to 2".
	Canopy Species		Size Class		H Age						planted in spring of 1992 R2. 2010 FMD; Jp stand that was cut and
	Red Maple	5	Sapling	2	00						planted to rp. Most rp iw not keeping up with jp but some may survive till stand matures, Jp stocking is good to fair,
	Red Pine Jack Pine	15 75	Sapling	3 4	29						stand matures, up stocking is good to rair,
	Black Cherry	5	Sapling Sapling	3	29						
150		41 - Planted Mixed Pine, Mixed Deciduous y Species % Cover Size Class			Sapling Poor		6 I	Immature	N/A		2020: Cherry competition to planted red pine. Pine survival looks pretty good but there are some stretches of missing trees. Consider herbicide to control cherry. Check to see if this has been sprayed. 2018: regen
	Red Pine	55	Sapling	1	6						survey indicated good pine survival but significant cherry competition. Recommend herbicide release treatment. Stand swapped from Non-
	Jack Pine	5	Sapling	1	6						Forested to Forested. Stand used to be burned to maintain as fire break
	Black Cherry	30	Sapling	1	7						but cherry has grown in in recent years. Stand should be chopped or
	Red Maple	10	Sapling	1	7						burned or sprayed to reduce competition and then planted to rp or jp. TMS should evaluate. 2016: stand chopped and trenched 2014 and red
	·										pine planted 2015. 1 year regen survey completed in 2016.
151	42290 - Nati			Sawtimb		11.7	71	111-140	N/A		2020: Stand looks fine. Good stocking. Aspen sprouts under pine. Continue to manage for visual break along road at this time.
	Canopy Species		Size Class		H Age		nopy Species		Avg. Height	Size	- Continue to manage for neural productioning rough at time time.
	Red Maple	2	Pole/Log				ed Maple	Low	5 - 10 feet	Sapling	
	White Pine	56	Log	15	71		Beech	Low	< 5 feet	Sapling	
	Red Pine	40	Log	14	71		ooth Aspen	Medium	5 - 10 feet	Sapling	
	Bigtooth Aspen	2	Pole/Log	8		W	hite Pine	Low	10 - 20 feet	Sapling	

Stand	Level 4 Ce	over Type		Size D	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
152	42111 - Planted Deci	Red Pine, iduous	Mixed	Saplin	g Poor	45.6	6	Immature	N/A		2020: switched stand to forested. Good growth on most red pine. Some competition from cherry, male, aspen, oak. Scattered log sized pine and
	Canopy Species	% Cover	Size Class	DBI	H Age						oak retention 2018: regen survey. Pine healthy and FTG. Recent herbicide treatment very successful. 2015: TS# 078-12. Harvested and
	Red Pine	60	Sapling	1	6						trenched summer 2014. Retention of scattered red pine and oak. Plant
	Bigtooth Aspen	5	Sapling	1	6						in spring or 2015. Sprayed 2017 to control aspen and red maple.
	Black Cherry	10	Sapling	1	6						2010FMD: Nice mix of rp/jp. Mix swings from almost pure rp to most jp. Scattered oak aspen and rm throughout. Nice stand of pulp/small logs
	White Oak	5	Sapling	1	6						with good volume. Visual concerns on roads. 2016: Stand harvested
	Red Oak	5	Sapling	1	6						with some oak and pine retention. Trenched 2014 and planted 2015. 1
	Red Maple	5	Sapling	1	6						year regen survey completed in 2016. Sprayed herbicide 2017 to control
	Red Pine	5	Log	13	86						cherry and aspen competition and release pine.
	White Oak	3	Log	14	101						
153	42111 - Planted Deci	Red Pine,	Mixed	Saplin	g Poor	79.8	7	Immature	N/A		2020: Oak,rm an bc sprouts outpacing planted pine. A good bit of natura jp in places. Residual rp and oak log trees scattered through stand less
	Canopy Species	% Cover	Size Class	DBI	H Age						than 10ba. Most of the planted rp looks alright. A little mortality. RM/BC competition is more considerable on the north part. Would be a good
	Red Pine	65	Sapling	1	7						place for mechanical release if that is available. 2018 regen survey good
	Jack Pine	10	Sapling	1	7						pine growth but significant competition from cherry. Recommend releas herbicide 2019. Red pine planted 2015 1 year regen survey completed in 2016.
	Red Maple	15	Sapling	1	7						
	Black Cherry	5	Conlina	4	_						IN ZUID.
	Zidon Gilony	3	Sapling	1	7						= 5 (5)
154	42200 - Natu	ural White F	Pine Sa	awtimbe	r Mediu		76	51-80	N/A		2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest.
154	42200 - Natu	ural White F	Pine Sa	awtimbe		Sub-Ca	nopy Specie	s Density	Avg. Height	Size	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out of
154	42200 - Natu Canopy Species Red Maple	ural White F % Cover 5	Pine Sa Size Class Pole/Sapling	awtimbe DBI	r Mediu	Sub-Ca	nopy Specie ed Maple	s Density	Avg. Height 10 - 20 feet	Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out of this stand or thin it for crop tree release and to reduce the overall size.
154	42200 - Natu Canopy Species Red Maple White Oak	wral White F % Cover 5 5	Pine Sa Size Class Pole/Sapling Log	DBI 7 12	r Mediu	Sub-Ca Re	nopy Specie ed Maple hite Pine	Low High	Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out of this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the
154	42200 - Natu Canopy Species Red Maple White Oak White Pine	wral White F % Cover 5 5 60	Pine Sa Size Class Pole/Sapling Log Log/Pole	DBI 7 12 10	r Mediu H Age	Sub-Ca Re WI Qual	nopy Specie ed Maple hite Pine king Aspen	S Density Low High Low	Avg. Height 10 - 20 feet 10 - 20 feet 5 - 10 feet	Sapling Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out o this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may be best to just manage for mixed age classes. 2012. Oak wilt treatment
154	42200 - Natu Canopy Species Red Maple White Oak	wral White F % Cover 5 5	Pine Sa Size Class Pole/Sapling Log	DBI 7 12	r Mediu H Age	Sub-Ca Re WI Qual	nopy Specie ed Maple hite Pine	Low High	Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out of this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may
154	42200 - Natu Canopy Species Red Maple White Oak White Pine Red Pine	wral White F % Cover 5 5 60	Pine Sa Size Class Pole/Sapling Log Log/Pole Log/Pole	DBI 7 12 10	r Mediu H Age 1116 76 76	Sub-Ca Re WI Qual R	nopy Specie ed Maple hite Pine king Aspen	S Density Low High Low	Avg. Height 10 - 20 feet 10 - 20 feet 5 - 10 feet	Sapling Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out of this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may be best to just manage for mixed age classes. 2012. Oak wilt treatment area created stand. Cut all red oak within trench line. Kept all pine in stand and green marked some wo and rm to retain. harvested all other stems and all red oak.
155	42200 - Natu Canopy Species Red Maple White Oak White Pine Red Pine	### White F ### Cover 5	Pine Sa Size Class Pole/Sapling Log Log/Pole Log/Pole	DBI 7 12 10 10	r Mediu H Age 1116 76 76	Sub-Ca Re WI Qual R	inopy Specie ed Maple hite Pine king Aspen ed Pine	Low High Low Low	Avg. Height 10 - 20 feet 10 - 20 feet 5 - 10 feet < 5 feet	Sapling Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out of this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may be best to just manage for mixed age classes. 2012. Oak wilt treatment area created stand. Cut all red oak within trench line. Kept all pine in stand and green marked some wo and rm to retain. harvested all other stems and all red oak. 2020: Split this stand off north of road as it has a heavier red oak component. Average RO with wp understory. Many old burnt pine
155	42200 - Natu Canopy Species Red Maple White Oak White Pine Red Pine	White F Cover 5 60 30 Red Oak	Pine Sa Size Class Pole/Sapling Log Log/Pole Log/Pole	DBI Sawtimbe DBI DBI DBI DBI	r Mediu 1 Age 116 76 76	Sub-Ca Re WI Qual R	inopy Specie ed Maple hite Pine king Aspen ed Pine	Low High Low Low	Avg. Height 10 - 20 feet 10 - 20 feet 5 - 10 feet < 5 feet	Sapling Sapling Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out or this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may be best to just manage for mixed age classes. 2012. Oak wilt treatment area created stand. Cut all red oak within trench line. Kept all pine in stand and green marked some wo and rm to retain. harvested all other stems and all red oak.
155	42200 - Natu Canopy Species Red Maple White Oak White Pine Red Pine 4123 - Canopy Species	## Cover 5 60 30	Pine Sa Size Class Pole/Sapling Log Log/Pole Log/Pole Size Class	DBI Sawtimbe DBI DBI DBI DBI	r Mediu 1 Age 116 76 76 76	Sub-Ca Re WI Qual R 1 16.1 Sub-Ca	inopy Specie ed Maple hite Pine king Aspen ed Pine 101 inopy Specie	Density Low High Low Low 81-110 S Density	Avg. Height 10 - 20 feet 10 - 20 feet 5 - 10 feet < 5 feet N/A Avg. Height	Sapling Sapling Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out o this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may be best to just manage for mixed age classes. 2012. Oak wilt treatment area created stand. Cut all red oak within trench line. Kept all pine in stand and green marked some wo and rm to retain. harvested all other stems and all red oak. 2020: Split this stand off north of road as it has a heavier red oak component. Average RO with wp understory. Many old burnt pine stumps. Some of this stand is too steep to manage. Mixed pine sizes. May be able to regenerate oak with pine if this stand was cut heavily. 2017: clumped 3 stands and remotely updated canopy call. Field check
155	42200 - Natu Canopy Species Red Maple White Oak White Pine Red Pine 4123 - Canopy Species Red Maple	## Cover 5 60 30 Red Oak **Cover 5 5 60 30	Pine Sa Size Class Pole/Sapling Log Log/Pole Log/Pole Size Class Pole/Sapling	awtimbe DBI 7 12 10 10 Sawtimb DBI 7	r Mediu 1 Age 116 76 76 76	Sub-Ca Re WI Qual R 16.1 Sub-Ca Re	inopy Specie ed Maple hite Pine king Aspen ed Pine 101 inopy Specie ed Maple	Box Density Low High Low Low 81-110 Box Density Medium	Avg. Height 10 - 20 feet 10 - 20 feet 5 - 10 feet < 5 feet N/A Avg. Height >20 feet	Sapling Sapling Sapling Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out o this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may be best to just manage for mixed age classes. 2012. Oak wilt treatment area created stand. Cut all red oak within trench line. Kept all pine in stand and green marked some wo and rm to retain. harvested all other stems and all red oak. 2020: Split this stand off north of road as it has a heavier red oak component. Average RO with wp understory. Many old burnt pine stumps. Some of this stand is too steep to manage. Mixed pine sizes. May be able to regenerate oak with pine if this stand was cut heavily. 2017: clumped 3 stands and remotely updated canopy call. Field check 2000FMDO7R7O4M4A4 Potential or designated old growth. 80 yr old
155	42200 - Natu Canopy Species Red Maple White Oak White Pine Red Pine 4123 - Canopy Species Red Maple Red Oak	### Cover 5 60 30	Pine Sa Size Class Pole/Sapling Log Log/Pole Log/Pole Size Class Pole/Sapling Log/Pole	DBI 7 12 10 10 10 10 10 10 10 10 10 10 10 10 10	r Mediu 1 Age 1116 76 76 14 Age 101	Sub-Ca Re WI Qual R 16.1 Sub-Ca Re	inopy Specie ed Maple hite Pine king Aspen ed Pine 101 inopy Specie ed Maple hite Pine	Boundary Low High Low Low 81-110 Boundary Medium Low	Avg. Height 10 - 20 feet 10 - 20 feet 5 - 10 feet < 5 feet N/A Avg. Height >20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out o this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may be best to just manage for mixed age classes. 2012. Oak wilt treatment area created stand. Cut all red oak within trench line. Kept all pine in stand and green marked some wo and rm to retain. harvested all other stems and all red oak. 2020: Split this stand off north of road as it has a heavier red oak component. Average RO with wp understory. Many old burnt pine stumps. Some of this stand is too steep to manage. Mixed pine sizes. May be able to regenerate oak with pine if this stand was cut heavily. 2017: clumped 3 stands and remotely updated canopy call. Field check 2000FMDO7R7O4M4A4 Potential or designated old growth. 80 yr old oak mature. Considering low SI. Sampled oak 81 yr old slowed growth
155	42200 - Natu Canopy Species Red Maple White Oak White Pine Red Pine 4123 - Canopy Species Red Maple Red Oak White Oak	### Cover 5 60 30	Pine Sa Size Class Pole/Sapling Log Log/Pole Log/Pole Size Class Pole/Sapling Log/Pole Log/Pole Log/Pole	DBI 1 7 10 Sawtimbe DBI 1 7 10 10 10 10 11 10 11 11 11 11 11 11 11	r Mediu 1 Age 116 76 76 1 Age 101 101	Sub-Ca Re WI Qual R 16.1 Sub-Ca Re	inopy Specie ed Maple hite Pine king Aspen ed Pine 101 inopy Specie ed Maple hite Pine	Boundary Low High Low Low 81-110 Boundary Medium Low	Avg. Height 10 - 20 feet 10 - 20 feet 5 - 10 feet < 5 feet N/A Avg. Height >20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out of this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may be best to just manage for mixed age classes. 2012. Oak wilt treatment area created stand. Cut all red oak within trench line. Kept all pine in stand and green marked some wo and rm to retain. harvested all other stems and all red oak. 2020: Split this stand off north of road as it has a heavier red oak component. Average RO with wp understory. Many old burnt pine stumps. Some of this stand is too steep to manage. Mixed pine sizes. May be able to regenerate oak with pine if this stand was cut heavily. 2017: clumped 3 stands and remotely updated canopy call. Field check. 2000FMDO7R7O4M4A4 Potential or designated old growth. 80 yr old oak mature. Considering low SI. Sampled oak 81 yr old slowed growth at 60 yr. Small JP stand (O/I 103) age 62 in nw corner. 2010FMD: 80-100 ytr old pine and oak with lots of pine underneath. Some slopes would
155	42200 - Natu Canopy Species Red Maple White Oak White Pine Red Pine 4123 - Canopy Species Red Maple Red Oak White Oak Bigtooth Aspen	Red Oak **Cover* 5 60 30 **Red Oak** **Cover* 5 10 3	Pine Sa Size Class Pole/Sapling Log Log/Pole Log/Pole Size Class Pole/Sapling Log/Pole Log/Pole Pole	DBI 10 10 Sawtimbe DBI 7 12 12 12 12 18	r Mediu 1 Age 116 76 76 1 Age 101 101	Sub-Ca Re WI Qual R 16.1 Sub-Ca Re	inopy Specie ed Maple hite Pine king Aspen ed Pine 101 inopy Specie ed Maple hite Pine	Boundary Low High Low Low 81-110 Boundary Medium Low	Avg. Height 10 - 20 feet 10 - 20 feet 5 - 10 feet < 5 feet N/A Avg. Height >20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	2020: A little bit of wp filling in gaps but not a lot since the stand was salvaged. Patch of wp saplings were preserved during last harvest. Some red pine seedlings on skid trails. Could cut most of the pine out of this stand or thin it for crop tree release and to reduce the overall size. This stand will likely have mixed ages for a while. Removing most of the canopy at his time would reduce the spread in the age classes but it may be best to just manage for mixed age classes. 2012. Oak wilt treatment area created stand. Cut all red oak within trench line. Kept all pine in stand and green marked some wo and rm to retain. harvested all other stems and all red oak. 2020: Split this stand off north of road as it has a heavier red oak component. Average RO with wp understory. Many old burnt pine stumps. Some of this stand is too steep to manage. Mixed pine sizes. May be able to regenerate oak with pine if this stand was cut heavily. 2017: clumped 3 stands and remotely updated canopy call. Field check. 2000FMDO7R7O4M4A4 Potential or designated old growth. 80 yr old oak mature. Considering low SI. Sampled oak 81 yr old slowed growth