

Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72268
Entry Year 2024
Acreage: 1,554
County Crawford

Management Area: Camp Grayling

Stand Examiner: Derek Nellis

Legal Description:

T28N R2W Sections 10, 11, 12

Identified Planning Goals:

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification and structural diversity throughout the compartment.

Soil and topography:

The compartment's rolling to steep terrain is on Graycalm-Klacking and Graycalm-Grayling complexes. The outwash plains are on Grayling sands. The river floodplain is comprised of Tawas-Leafriver mucks.

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

The entire area is under the 1935 long-term lease agreement L-1479 (Act 154 P.A. 1935) with the Michigan National Guard, Department of Military Affairs. The agreement provides for use by the military during their encampment, with no permanent buildings or improvements to be erected. Military needs take precedence over resource management needs on long-term lease lands. The DNR will coordinate all prescribed activities with the National Guard to ensure that they are compatible with military training needs. The west edge of the compartment is within the fenced Range 40 Complex. Several Military Firing Point openings are located within the compartment.

Unique Natural Features:

The North Branch of the AuSable is part of a designated Natural River system. There is the potential for rare wetland plants and reptiles to occur along the riparian corridor. There is also the potential for rare dry prairie plants, insects and birds to occur in upland grassy openings.

Archeological, Historical, and Cultural Features:

The compartment's east side is two miles north of Lovells and was within that community's early homesteading and farming influence zone.

Special Management Designations or Considerations:

The AuSable River system is a High Conservation Value Area (HCVA). The Military training lands are classified as a Special Conservation Area (SCA).

Watershed and Fisheries Considerations:

The North Branch of the AuSable River is a quality trout stream. There is a walk-in fishing access site on the east side of the river, with an informal parking spot off Twin Bridge Road.

Wildlife Habitat Considerations:

The compartment's aspen, oak and upland brush cover types provide good habitat for grouse, deer and turkey. The lowland aspen on the river floodplain has good potential for woodcock management.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Coldwater Shale that does not have a current economic use. The nearest gravel pit is located one and a half miles to the south, and potential is thought to be good in the upland areas. The compartment is State Military Leased land. None of the compartment is leased for mineral development. The Antrim Shale has been developed for gas production to the east.

Vehicle Access:

County roads that provide access to the compartment include Twin Bridge, Ski Hill, Lint and Lonesome Lake Roads. A network of two-track roads provide access to the upland interior.

Survey Needs

The survey monument for the southwest corner of section twelve was destroyed, apparently during road work at the

intersection of Ski Hill Road and KP Truck Trail. One of four witness trees remains standing, and the monument itself is in a pile of dirt ~20 feet northwest of the original location.

Recreational Facilities and Opportunities:

The North Branch of the AuSable River is used mainly for fly fishing, but there is also some canoe and kayak traffic. Fisheries Division has an informal walk-in fishing access site along the river. Hunting is the main form of dispersed use in the upland interior. No designated recreational facilities or trails exist within the compartment, but there are recreational opportunities such as hunting, fishing, and wildlife viewing when military training is not occurring. ORV's are seasonally permitted some forest roads in this compartment starting in 2022.

Fire Protection:

The compartment has mainly upland deciduous cover, with reasonable access. The AuSable River and nearby lakes are potential water points.

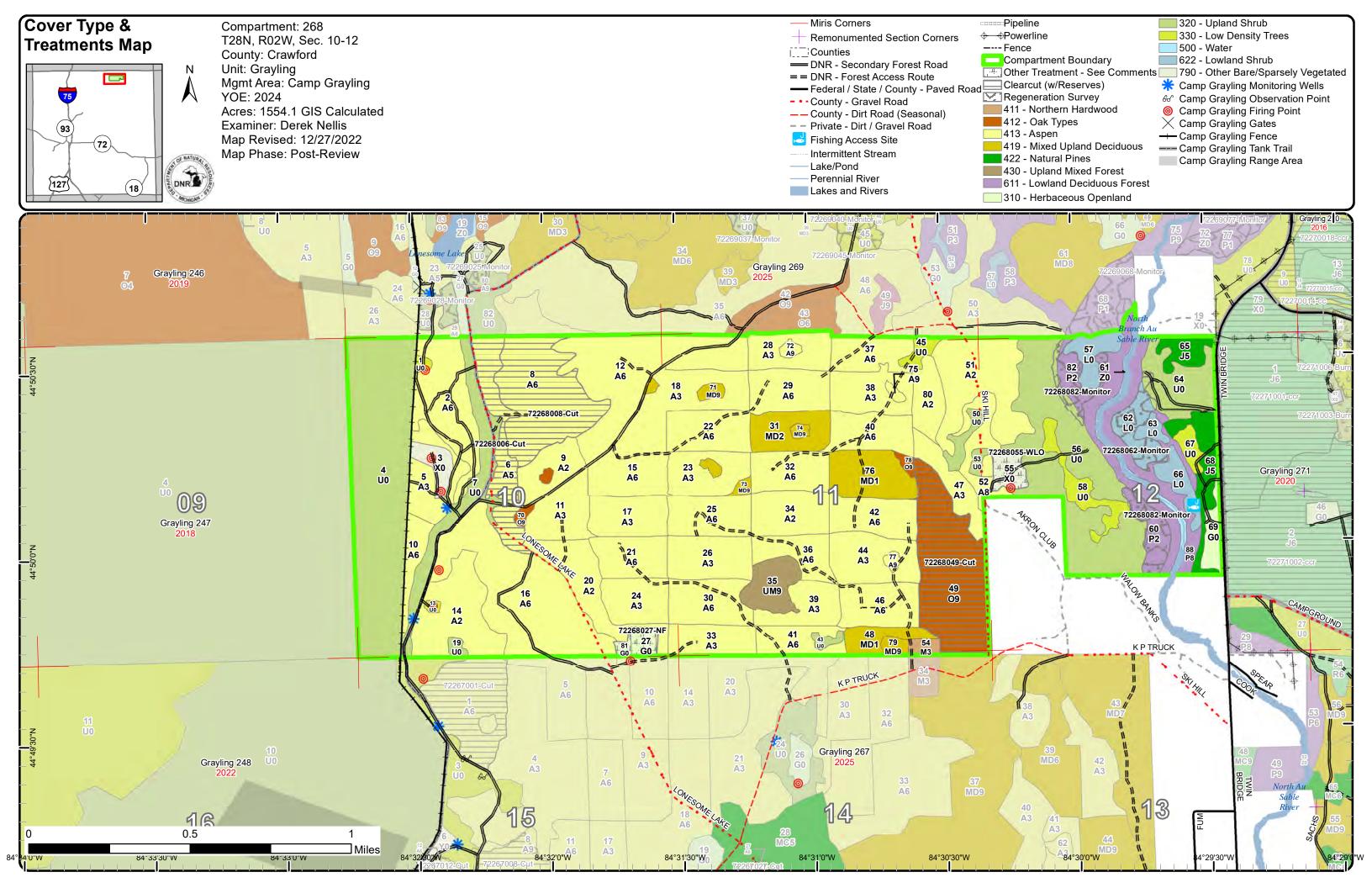
Additional Compartment Information:

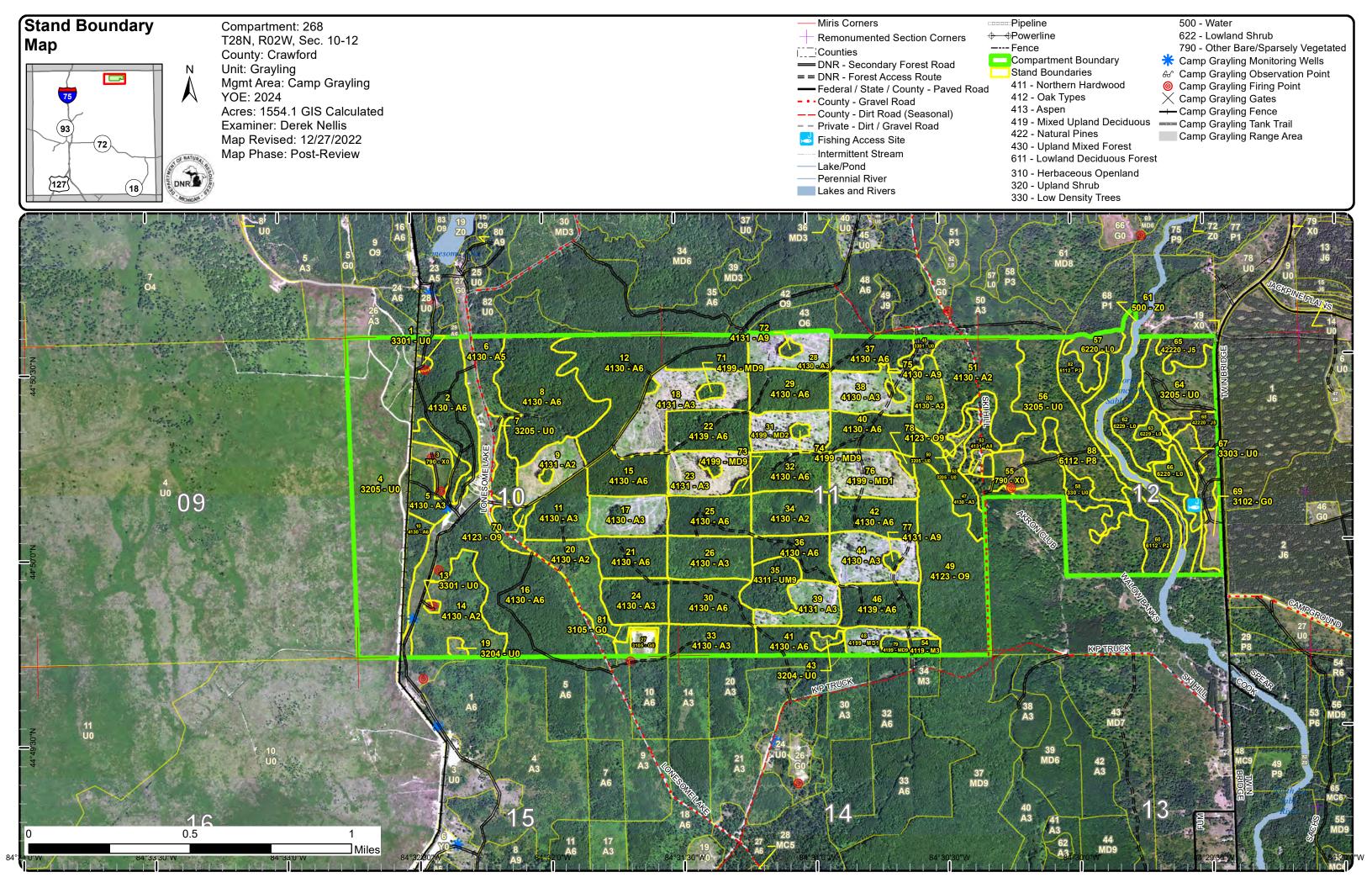
The following reports from the Inventory are attached:

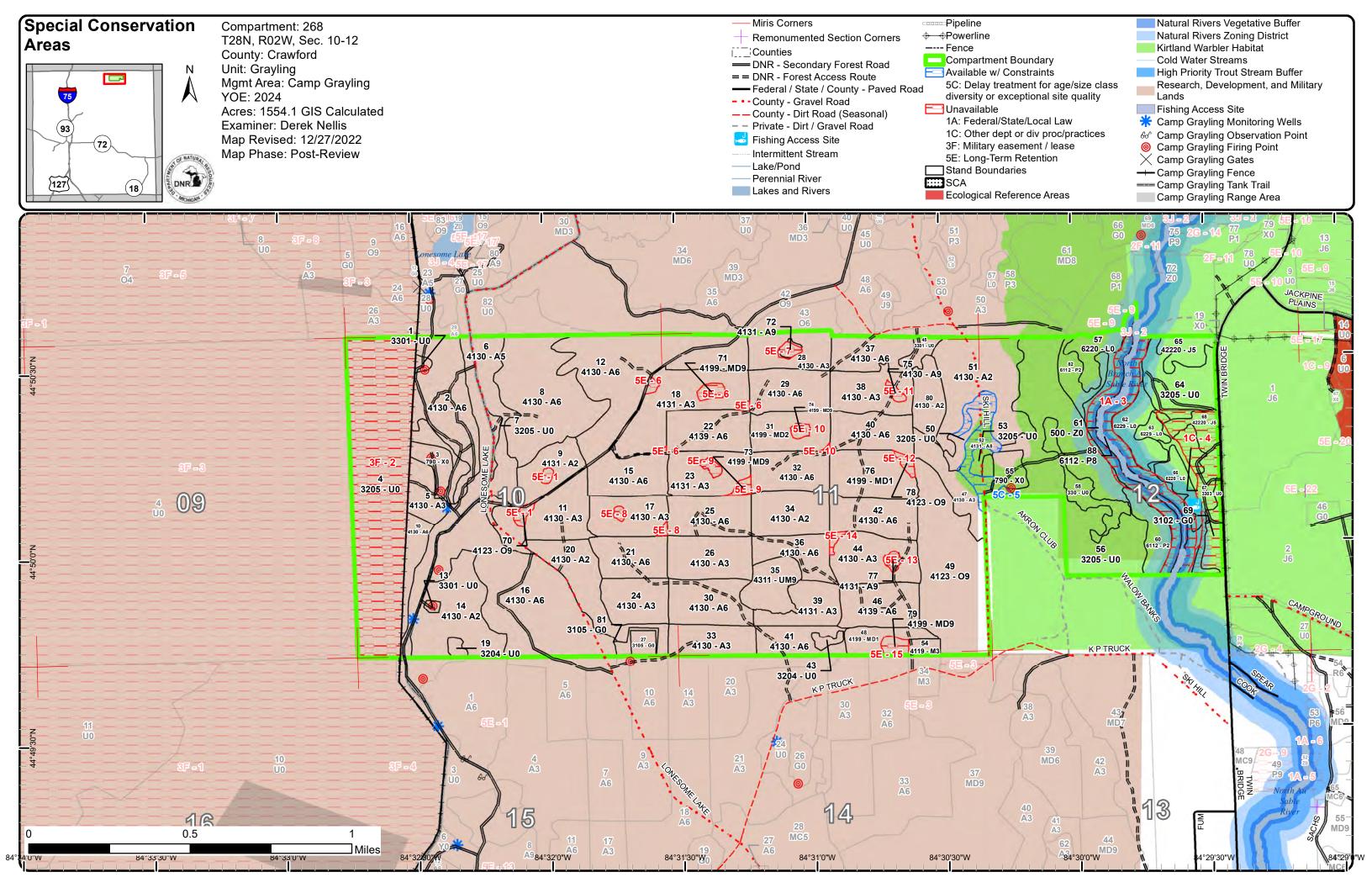
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Grayling Mgt. Unit

Derek Nellis: Examiner



TONELLOM1

Age Class

	No.	Kor C	\$ /«	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		3 /) } 	\$ / &	R. S.	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ /a/	70,	Ø. /&			84 / 42	S Jues	A LOS
Aspen	0	168	97	153	405	9	96	0	0	5	0	0	0	0	0	0	0	22	954
Bare/Sparsely Vegetated	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Jack Pine	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Aspen/Balsam Poplar	0	21	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	64
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Mixed Upland Deciduous	0	51	0	0	0	0	0	0	3	8	0	0	0	0	0	0	0	0	62
Northern Hardwood	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Oak	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	67
Upland Mixed Forest	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Upland Shrub	265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	265
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	365	240	97	156	405	9	179	0	3	80	0	0	0	0	0	0	0	22	1555



Report 2 – Treatment Summary

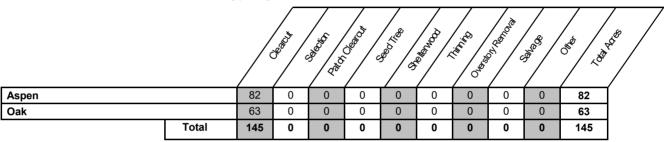
Grayling Mgt. Unit Year of Entry: 2024

Acres of Harvest

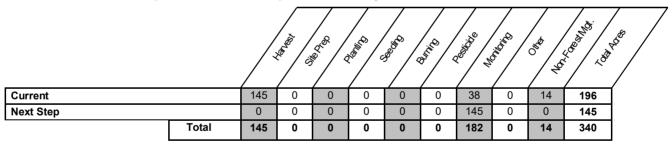
Compartment 268
Total Compartment Acres: 1,554

Commercial Harvest - 145 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method





t a n d

s

Treatment Acres
Name

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

Approved Treatments:

6 72268006-Cut 27.1 4130 - Aspen Poletimber 53 1-50 Harvest Clearcut with 413 - Aspen Even-Aged No Medium Retention

<u>Prescription</u> Harvest all trees >2"DBH. Standard retention. Include drumming tree spec, shrub protection for Hawthorne, and military specs.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderately stocked aspen with other mixed deciduous.

Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

8 72268008-Cut 54.5 4130 - Aspen Poletimber 54 81-110 Harvest Clearcut with 4131 - Aspen, Uneven-No Well Retention Oak Aged

Prescription Harvest all trees >2"DBH except do not harvest white oak and paper birch. Try to capture red oak pole component within area based retention.

Specs: Drumming tree spec and military specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with a mix of oak, maple, and birch for a moderately stocked stand.

Regen:

Other Steep and rolling terrain. use retention to help mitigate orv access. Look into including stand 32 to the north.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

27 72268027-NF 6.2 3105 - Mixed Nonstocked Unspec NonForestMgt Other - Specify 310 - No Upland Herbaceous ified Herbaceous Openland

<u>Prescription</u> Periodic opening maintenance as needed, that may include disking, chisel plowing, stump excavation, fertilizing, food plot seeding, no-till prairie <u>Specs:</u> grass seeding, mowing, and herbicide application. Also could include tree and shrub planting along the perimeter.

Next Step

Treatments:

<u>Acceptable</u>

Regen:

Other

This opening is FP 221 and is part of the DNR/NWTF WHG project.

Comment:

Site Condition:

Proposed Start Date: 8 /1 /2018

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 268 s Year of Entry: 2024 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Density CoverType Method Objective Structure Name Age Range Type Cut d 49 72268049-Cut 63.0 4123 - Red Oak Sawtimber 81-110 Harvest Clearcut with 4199 - Other Even-Aged No Retention Mixed Upland Well Deciduous Prescription Harvest all trees >2"DBH. Steep ground on the north and east sides of the stand will be sold as a scaled sale. Inaccessible areas due to slope Specs: will be retention. Include military specs. Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Mixed upland deciduous with a minimum of 20% oak. Regen: **Other** Comment: Site Condition: Proposed Start Date: 10/1 /2023 72268055-7.3 55 790 - Other Nonstocked 310 -Unspec NonForestMgt Other - Specify No **WLO** Bare/Sparsely Herbaceous ified Openland Vegetated Prescription Periodic opening maintenance as needed, that may include disking, chisel plowing, stump excavation, fertilizing, food plot seeding, no-till prairie grass seeding, mowing, and herbicide application. Also could include tree and shrub planting along the perimeter. Specs: Next Step Treatments: **Acceptable** Regen: Other This opening is FP 123 and is part of the DNR/NWTF WHG project. Comment: Site Condition: Proposed Start Date: 10/1 /2020 72268062-13.7 6229 - Mixed Nonstocked Unspec Monitoring Natural Regen 6112 - Lowland Even-Aged No 62 lowland shrub Monitor ified (Re-Inventory) Aspen Prescription check regen Specs: Next Step Treatments: Acceptable Lowland aspen and shrub cover on the floodplain, with mixed upland deciduous on the transition zone and upland edge.

Regen:

Other F
Comment:
Site Condition:

Percent to Treat = 100%

Proposed Start Date: 10/31/2022

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 268 s Year of Entry: 2024 t а **Cover Type Treatment** Acres Stand Size Stand BA **Treatment Treatment** Age Habitat n Density Name Age Method Objective Structure CoverType Range **Type** d Cut 60 72268082-24.0 6112 - Lowland Sapling Immatu Monitoring Natural Regen 6112 - Lowland Even-Aged No Medium Monitor (Re-Inventory) Aspen Aspen re Prescription Additional regeneration within the proposed treatment boundary may be achieved through a Wildlife Division FTP; evaluate the need postharvest. Natural regen survey. Natural regen goal is lowland aspen and shrub cover on the floodplain, with oak-aspen-mixed deciduous on the Specs: transition zone and upland edge. Next Step Treatments: Acceptable Lowland aspen and shrub cover on the floodplain, with mixed upland deciduous on the transition zone and upland edge. Regen: Other (Percent to Treat = 100%

Total Treatment Acreage Proposed: 195.8

Proposed Start Date: 10/1 /2021

Comment:
Site Condition:

Compartment: 268

Grayling Mgt. Unit

Derek Nellis : Examiner Year of Entry: 2024

Availa	ability for	Managemer	nt							
Total	Acres	Acres Avail	Acres	De	omina	nt Site	e Con	ditions	S	
Acres	Available	With Condition	Not Available		5C	1A	1C	3F	3J	5E
955	933	14	8	Aspen	14			0		8
15	15	0	0	Bare/Sparsely Vegetated	0					
14	6	0	7	Herbaceous Openland			7			
25	9	0	16	Jack Pine			16			
24	19	0	5	Low-Density Trees			5	0		
64	29	0	35	Lowland Aspen/Balsam Poplar		32	1		2	
35	34	0	1	Lowland Shrub		1	0		0	
61	50	0	11	Mixed Upland Deciduous						11
3	3	0	0	Northern Hardwood						
67	63	0	4	Oak						4
15	15	0	0	Upland Mixed Forest						
265	152	0	113	Upland Shrub	0	1	1	111		
11	0	0	11	Water		11			0	
1,554	1,329	14	212	Total Forested Acres	14	45	31	111	2	23
·	86%	1%	14%	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 ond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	mments: tention islands fo	r stand 9's harvest (#605-14).					
2	Unavailable	3F: Military easement / lease	111	Unspecified	Unspecified	Unspecified	Unspecified
_	mments: rt of Camp Grayli	ng's fenced air-to-ground bon	nbing Ra	nge 40 Complex.			

Report 4 – Site Conditions

Grayling Mgt. Unit

Derek Nellis : Examiner

3	Unavailable	1A: Federal/State/Local Law	45	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Natural Rivers rest	ricted cutting zone, 150 feet fro	m the	ordinary high water mark.			
4	Unavailable	1C: Other dept or div proc/practices	33	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: see locked comme	nts					
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
	old) and second ag	pe of aspen due to 40% benchr ge was on the bigtooth aspen (2 en call. Keep this stand for nex	0% co	ver and 47 years old). Ger	eric silvicultural criteria fla	agged the stand based on	the first age relative to
6	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention islands l	eft for stand 18's harvest.					
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention island le	ft for stand 28's harvest in 2016					
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention islands l	eft for stand 17's harvest in 201	6.				

Report 4 – Site Conditions

Grayling Mgt. Unit

Derek Nellis : Examiner

9	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
_	comments: Retention islands l	eft for stand 23's harvest in 201	6.				
10	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention islands l	eft for stand 31's harvest in 201	6.				
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention island le	ft when for stand 38's harvest ir	2016.				
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention for the h	arvest of stand 49's NW penins	ula in 20	16 (now stand 76).			
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	comments: Retention for stand	l 44's harvest in 2016.					
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
15	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	comments: Retention left wher	n stand 48 was harvested in 201	6. Exclu	uded an informal deer hu	ınting campsite.		

Mgt. Unit

Compartment: #Type! Year of Entry:

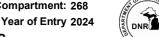


Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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				

Grayling Mgt. Unit Compartment: 268



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.

Conservation Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated fo include the 5,847 acre Forest Fire Experiment Station, the 12,00 Area, the Beaver Islands Archipelago Wildlife Research Area (th High and Hog Islands, all state owned land on Beaver, South Fo Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Re Nursery, and over 144,000 acres of Military Lands.	0 acre Houghton Lake Wildlife Research at includes most of Garden Island, all of x and North Fox Islands), the Cusino
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 cts on water quality and quantity, as well
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coop U.S. Fish and Wildlife service for the recovery of threatened and Part 365, Endangered Species Protection, of the Natural Resour 1994 PA 451, and the Federal Endangered Species Act of 1973 species plans in various stages of review. As of now only two explover Habitat.	endangered species, as governed by ces and Environmental Protection Act, This is an active program, with proposed
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spapproved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 1	s Zoning District is a 400 foot buffer for



Stand	Level 4 Co	over Type	S	ize De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
1	3301 - Low Densi	ty Deciduou	us Trees	Nonsto	ocked	1.3	U	nspecified	Managed O	pening	Military Firing Point 505 opening. Not currently flagged for clearing. Has scattered aspen poles and patches of A3, along with upland brush (prairie willow, black cherry).
2	4130 -	- Aspen	Po	oletimb	er Wel	37.1	37	1-50	N/A		Cut merch & up by early 1985 under 72-039-84-01, except for an uncut
С	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	buffer left around Firing Point 505 in the stand's NW and a steep hillside at the stand's far south end. Aspen, RM & oak regen from the cut is
Black/	/Red (Hybrid) Oak	2	Log	12		Hazeln	nut (Beaked)	Low	< 5 feet	Tall Shrub	
В	Bigtooth Aspen	45	Sapling/Pole	4	37	Wite	tch Hazel	Low	5 - 10 feet	Tall Shrub	the pole class. The residual was heaviest along the stand's west side,
Black/	/Red (Hybrid) Oak	6	Pole/Sapling	5	37	Servicebe	erry (Juneberry)	Low	10 - 20 feet	Tall Shrub	which is dominated by small-pole QA and WP. The stand's east half had less residual. A majority of stems there are still saplings, but there is
	Red Maple	10	Sapling/Pole	4	37						enough canopy representation in pole-sized stems that the stand is
	White Oak	2	Pole/Sapling	5	37						classified pole overall by IFMAP rules. Hilly terrain. BTA, RM & oak are
Q	Quaking Aspen	30	Sapling/Pole	4	37						concentrated on the ridgetop, switching to QA on the lower slopes. Less than recordable amounts of RP saw/poles & paper birch. At the stand's fa
	White Oak	2	Log	12							S peninsula there is an acre inclusion of mature oak that was left uncut at
	White Pine	3	Pole/Sapling	6							the top of a steep hill. Several hill-climb 2-tracks cut through that area, recorded as an RDR.
_	790 - Other Bare/S	Sparsely Ve	egetated	Nonsto	cked	7.5	U	nspecified	Managed O	pening	Military Firing Points 503 & 504. Cleared and expanded into one larger opening in 2011. New stand boundary not visible on the available imagery.
3	3205 - Mixed	Unland Sh	rub	Nonstr	ncked	111 2	11	nsnecified	No		
4	3205 - Mixed	Upland Sh	rub	Nonsto	ocked	111.2	U	nspecified	No		Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak.
		Upland Sh		Nonsto Saplinç		111.2		nspecified	No N/A		Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain.
4 5		•	,	Saplinç		17.3		•		Size	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the
5	4130 -	- Aspen		Saplinç	ı Well	17.3 Sub-Car	27 l	mmature	N/A		Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed
5	4130 - Canopy Species	- Aspen	Size Class	Saplinç DB F	ı Well	17.3 Sub-Car Servicebe	27 I	mmature Density	N/A Avg. Height	Size	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel,
5 C B	4130 - Canopy Species Bigtooth Aspen	- Aspen **Cover* 15	Size Class Sapling	Saplino DBH 3	y Well I Age 27	17.3 Sub-Car Servicebe	27 Innopy Species	mmature Density Low	N/A Avg. Height 10 - 20 feet	Size Tall Shrub	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed
5 C B No	4130 - Canopy Species Bigtooth Aspen orthern Pin Oak	- Aspen **Cover* 15 3	Size Class Sapling Sapling	Saplino DBH 3 3	y Well I Age 27	17.3 Sub-Car Servicebe	27 Innopy Species	mmature Density Low	N/A Avg. Height 10 - 20 feet	Size Tall Shrub	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel,
5 C B No	4130 - Canopy Species Bigtooth Aspen orthern Pin Oak Black Cherry	- Aspen **Cover* 15 3 2	Size Class Sapling Sapling Sapling	Saplino DBH 3 3 2	Well Age 27 27	17.3 Sub-Car Servicebe	27 Innopy Species	mmature Density Low	N/A Avg. Height 10 - 20 feet	Size Tall Shrub	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel,
5 C B No	4130 - Canopy Species Bigtooth Aspen orthern Pin Oak Black Cherry White Oak	- Aspen **Cover** 15 3 2 2 2	Size Class Sapling Sapling Sapling Sapling Sapling	Sapling DBH 3 3 2 3	y Well Age 27 27 27	17.3 Sub-Car Servicebe	27 Innopy Species	mmature Density Low	N/A Avg. Height 10 - 20 feet	Size Tall Shrub	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel,
5 C B No	A130 - Canopy Species Bigtooth Aspen orthern Pin Oak Black Cherry White Oak Red Maple Quaking Aspen	- Aspen **Cover* 15 3 2 2 13	Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Sapling DBH 3 3 2 3 3 2	y Well Age 27 27 27 27	17.3 Sub-Car Servicebe Prair	27 Innopy Species	mmature Density Low	N/A Avg. Height 10 - 20 feet	Size Tall Shrub	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel, beaked hazelnut & dogwood. Previous YOE aspen SI 57.
4 5 CC BB Noo E	A130 - Canopy Species Bigtooth Aspen orthern Pin Oak Black Cherry White Oak Red Maple Quaking Aspen	- Aspen **Cover* 15 3 2 2 13 65	Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Pole	Sapling DBF 3 3 2 3 2 3 2 etimber	y Well Age 27 27 27 27 27 27	17.3 Sub-Car Servicebe Prair	27 Innopy Species erry (Juneberry) rie Willow	mmature Density Low Low	N/A Avg. Height 10 - 20 feet < 5 feet	Size Tall Shrub	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel, beaked hazelnut & dogwood. Previous YOE aspen SI 57. Patchy, variable QA pole stand with U/G inclusions. Mostly in a valley, with a couple deep frost pocket depressions. In-growth resulted in a another
4 5 C B No E	4130 - Canopy Species Bigtooth Aspen orthern Pin Oak Black Cherry White Oak Red Maple Quaking Aspen	- Aspen % Cover 15 3 2 2 13 65 - Aspen	Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Pole	Sapling DBF 3 3 2 3 2 3 2 etimber	27 27 27 27 Mediu	17.3 Sub-Car Servicebe Prair m 27.1 Sub-Car	27 li nopy Species erry (Juneberry) irie Willow	mmature Density Low Low 1-50	N/A Avg. Height 10 - 20 feet < 5 feet	Size Tall Shrub Tall Shrub	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel, beaked hazelnut & dogwood. Previous YOE aspen SI 57. Patchy, variable QA pole stand with U/G inclusions. Mostly in a valley, with a couple deep frost pocket depressions. In-growth resulted in a another age/size class of large saplings intermediate in the canopy (second age),
4 5 CC B B No E CC C	4130 - Canopy Species Bigtooth Aspen orthern Pin Oak Black Cherry White Oak Red Maple Quaking Aspen 4130 - Canopy Species	- Aspen **Cover* 15	Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Sapling DBH 3 3 2 3 2 2 ettimbet	27 27 27 27 Mediu	17.3 Sub-Cai Servicebe Prain m 27.1 Sub-Cai	27 Innopy Species erry (Juneberry) irie Willow 53 nopy Species	Density Low Low 1-50 Density	N/A Avg. Height 10 - 20 feet < 5 feet N/A Avg. Height	Size Tall Shruk Tall Shruk	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel, beaked hazelnut & dogwood. Previous YOE aspen SI 57. Patchy, variable QA pole stand with U/G inclusions. Mostly in a valley, with a couple deep frost pocket depressions. In-growth resulted in a another age/size class of large saplings intermediate in the canopy (second age), and there are also scattered older cull saw aspen stems. Hypoxylon & black canker present. BTA mixes in along this stand's east side where it
4 5 CC B B No E CC Q Q Q Q	4130 - Canopy Species Bigtooth Aspen orthern Pin Oak Black Cherry White Oak Red Maple Quaking Aspen 4130 - Canopy Species Quaking Aspen	- Aspen **Cover* 15 3 2 2 13 65 - Aspen **Cover* 10	Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Sapling DBH 3 3 2 3 3 2 etimbee	27 27 27 Mediu Mage 30	17.3 Sub-Car Servicebe Prair m 27.1 Sub-Car Blac Servicebe	27 Innopy Species erry (Juneberry) irie Willow 53 nopy Species ck Cherry	Density Low Low 1-50 Density Low	N/A Avg. Height 10 - 20 feet < 5 feet N/A Avg. Height Variable	Size Tall Shruk Tall Shruk Size Tall Shruk	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel, beaked hazelnut & dogwood. Previous YOE aspen SI 57. Patchy, variable QA pole stand with U/G inclusions. Mostly in a valley, with a couple deep frost pocket depressions. In-growth resulted in a another age/size class of large saplings intermediate in the canopy (second age), and there are also scattered older cull saw aspen stems. Hypoxylon & black canker present. BTA mixes in along this stand's east side where it transitions onto better ground. Hawthorn concentrated along the road
4 5 CC BB No CC	4130 - Canopy Species Bigtooth Aspen orthern Pin Oak Black Cherry White Oak Red Maple Quaking Aspen 4130 - Canopy Species Quaking Aspen Quaking Aspen	- Aspen **Cover* 15	Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Pole	Sapling DBH 3 3 2 3 3 2 etimber DBH 3 7	27 27 27 Mediu Mage 30	17.3 Sub-Car Servicebe Prair 27.1 Sub-Car Blac Servicebe Prair	27 Innopy Species erry (Juneberry) irie Willow 53 nopy Species ck Cherry erry (Juneberry)	mmature Density Low 1-50 Density Low Low	N/A Avg. Height 10 - 20 feet < 5 feet N/A Avg. Height Variable 10 - 20 feet	Size Tall Shruk Size Tall Shruk Tall Shruk	Within Military's fenced air-to-ground bombing Range 40 Complex. Burns regularly. Portion of stand visible along the fence has upland brush with repeatedly set-back aspen, oak and red maple sprout regen, as well as widely-scattered oak saw. The steep hillside in the stand's far NE corner has a sub-acre pocket of mature oak. Cut 2" & up in late 1994 under 72-024-94-01. On rolling-steep terrain. BTA, RM & oak concentrated on hilltop, switching to mostly QA on the lower slopes. Hypoxylon present in the QA, mostly on the lower terrain. Occasional RP, WP & paper birch saplings. In addition to the listed subcanopy species, there were non-recordable amounts of witchhazel, beaked hazelnut & dogwood. Previous YOE aspen SI 57. Patchy, variable QA pole stand with U/G inclusions. Mostly in a valley, with a couple deep frost pocket depressions. In-growth resulted in a another age/size class of large saplings intermediate in the canopy (second age), and there are also scattered older cull saw aspen stems. Hypoxylon & black canker present. BTA mixes in along this stand's east side where it transitions onto better ground. Hawthorn concentrated along the road edges.



Stand	Level 4 C	over Type	S	Size De	nsity	Acres	Stand Age I	BA Range	Managed S	Site	General Comments				
7	3205 - Mixed	d Upland Sh	nrub	Nonsto	cked	31.0	ţ	Unspecified	No		Cleared corridor along Lonesome Lake Road. Heavy to sweetfern, with patches of blackberry, cherry brush, prairie willow, hawthorn and aspen. Several sandy two-tracks cross through the corridor, including hill-climb runs associated with a documented RDR. Spotted knapweed is common in the degraded areas.				
8	4130	- Aspen	P	oletimb	er Wel	11 54.5 54 8		81-110	N/A		Previous OI indicated a 1972 year of origin. Rolling terrain dissected with shallow valleys. BTA, NRO, & RM on the higher ground, QA on the lower				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	terrain. Vigorous stump-origin oak clumps are generally weeded down to 1-				
	Red Oak	8	Pole	7	53	Hazelr	nut (Beaked)	Low	< 5 feet	Tall Shrub	3 clean poles, some pushing the small saw class, with co-dominant to				
	White Oak	2	Log	14		Maple Le	aved Viburnun	n Low	< 5 feet	Tall Shrub	dominant crown position. Oak residual from the regen cut are 12-16" DBH, scattered across stand as individual stems and in small patches. The				
	Paper Birch	2	Pole/Sapling	6		Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub	harvest was likely spec'd merch & up, making for a slightly older residual				
	Quaking Aspen	15	Pole	7							class in the aspen, too. Occasional WP saps from the trace supercanopy				
	Bigtooth Aspen	60	Pole	7	54						WP seed source.				
	Red Oak	3	Log	12											
	Red Maple	10	Pole/Sapling	5											
9	4131 - <i>A</i>	Aspen, Oak	S	apling N		n 15.7	6	Immature	N/A		Mature O-A-RM stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except the few pine and retention islands (new				
	Canopy Species	% Cover	Size Class	DBH	Age						stand 70). Regen passed to M.O. at time of sale closing in 2019.				
	Red Oak	20	Sapling	1	6						, 3 1				
	White Oak	5	Sapling	1											
	Quaking Aspen	10	Sapling	1	6										
	Bigtooth Aspen	45	Sapling	1	6										
	Red Maple	20	Sapling	1	6										
10	4130	- Aspen	Р	oletimb	er Wel	II 9.4	44	51-80	N/A		Q aspen stand bordering the Range 40 fence. Most of the aspen stems have transitioned into the pole class, but there is swath of younger				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	sapling/pole aspen (roughly a chain wide) included along the range fence,				
	Quaking Aspen	100	Pole/Sapling	6	44	W	hite Oak	Low	< 5 feet	Sapling	and large cull aspen widely scattered across the stand. Oak regen filling in				
						North	ern Pin Oak	Low	5 - 10 feet	Sapling	below. Small wetland inclusion at S end (OFS point); ground close to water table at that end of the stand.				
						Bla	ck Cherry	Low	Variable	Tall Shrub	table at that end of the stand.				
						Prai	irie Willow	Low	< 5 feet	Tall Shrub					
11		- Aspen		Sapling		20.3	27	Immature	N/A		Cut 2" & up in late 1994 under 72-023-94-01. Dense aspen, RM & oak sprout regen from the cut, interspersed with small U inclusions. Maple-leaf				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	viburnum concentrated on the better ground with the BTA.				
	Red Maple	10	Sapling	2	27	Hazelr	nut (Beaked)	Low	< 5 feet	Tall Shrub					
	Quaking Aspen	50	Sapling	2	27	Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub					
	Bigtooth Aspen	32	Sapling	3	27	Maple Le	aved Viburnun	n Low	< 5 feet	Tall Shrub					
	Black Cherry	3	Sapling	2		Servicebe	erry (Juneberry	/) Low	10 - 20 feet	Tall Shrub					
	Red Oak	5	Sapling	2	27						-				



Stan	d Level 4 C	over Type	:	Size De	ensity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments			
12	4130	- Aspen	P	oletimb	er Well	64.2	37	51-80	N/A		Cut merch & up by early 1985 under 72-039-84-01, and the east 20 acres under 72-255-84-01. Diffuse boundary between this stand and the			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	adjacent to the west; the '84 harvest fingers into that stand and there was			
	Red Maple	13	Sapling/Pole	4	37	E	Beech	Low	Variable	Sapling	more residual left there. Aspen stand (mostly bigtooth) with red maple and			
	Red Oak	5	Pole/Sapling	6	37	Hazeln	ut (Beaked)	Low	5 - 10 feet	Tall Shrub	oak components. There are traces of beech, hard maple & ironwood			
	Paper Birch	2	Sapling/Pole	4	37	Wite	ch Hazel	Medium	10 - 20 feet	Tall Shrub	(concentrated in the east) and red pine (concentrated in the south). The residual from the cut is now large pole to small saw in size, while the			
	Bigtooth Aspen	70	Pole/Sapling	5	37	Servicebe	erry (Juneberry)) Low	10 - 20 feet	Tall Shrub	majority regen from the cut is transitioning into the pole class. The red oak			
	Quaking Aspen	10	Pole/Sapling	5	37	Maple Lea	aved Viburnum	Low	< 5 feet	Tall Shrub				
						Re	d Maple	Low	5 - 10 feet	Sapling	growth.			
13	3301 - Low Dens	ity Deciduo	us Trees	Nonsto	ocked	1.1	L	Inspecified	Managed C	pening	Military Firing Point 501 opening. Scattered aspen poles & regen, with cherry brush & serviceberry. Part of the Military's firing point clearing project; planned expansion boundary flagged but not yet cleared. Likely to happen this summer.			
14	4130	- Aspen	S	apling I	Иedium	36.2	27	Immature	N/A		Cut 2" & up in late 1994 under 72-024-94-01, except for an uncut buffer left			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	around Firing Point 501. Q aspen sapling clones separated by U/G inclusions, on rolling terrain with small frost pocket depressions. QA clones			
	Quaking Aspen	90	Sapling	2	27	Prair	rie Willow	Low	< 5 feet	Tall Shrub	have varying vigor; both hypoxylon & black canker present, particularly			
	Black Cherry	10	Sapling	1		Servicebe	rry (Juneberry)) Low	5 - 10 feet	Tall Shrub	along clone margins and on lower terrain position. Black cherry mixed in			
											Introughout, along with a trace of NP oak & RM regen from the cut. The FP 501 opening is flagged for clearing that will expand it into this stand, likely to be done this year.			
15	4130	- Aspen	P		er Well	19.9	37	1-50	N/A		Cut merch & up in 1985 under 72-255-84-01. Aspen stand transitioning into the pole class. Mostly BTA, with QA, RM & NRO components and some			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	paper birch. While not a large component, the oak is vigorous, with stump			
	Red Maple	13	Sapling/Pole	3	37	Wit	ch Hazel	Medium	10 - 20 feet	Tall Shrub	clumps continuing to weed down to fewer stems.			
	Red Oak	5	Pole/Sapling	6	37	Servicebe	rry (Juneberry)) Low	10 - 20 feet	Tall Shrub				
	Paper Birch	2	Sapling/Pole	4	37	Blac	ck Cherry	Low	Variable	Tall Shrub				
	Bigtooth Aspen	70	Pole/Sapling	5	37		ut (Beaked)	Low	5 - 10 feet	Tall Shrub				
	Quaking Aspen	10	Pole/Sapling	5	37	Maple Lea	aved Viburnum	Low	< 5 feet	Tall Shrub				
16	4130	- Aspen			er Well	76.0	37	1-50	N/A		Cut merch & up in late 1984 under 72-040-84-01, except for an uncut buffer left around FP 502 in the stand's far SW peninsula. FP 502 is flagged for			
	Canopy Species	% Cover		DBH	I Age		nopy Species	Density	Avg. Height	Size	clearing & expansion that will create an acre-plus opening, taking most of			
	Red Maple	10	Sapling/Pole	3	37		ch Hazel	Medium	5 - 10 feet		the mature aspen from the old uncut buffer. Aspen transitioning into the			
	Quaking Aspen	35	Sapling/Pole	4	37		erry (Juneberry)) Low	10 - 20 feet	Tall Shrub	weeding down nicely			
	Bigtooth Aspen	48	Pole/Sapling	5	37	Blac	ck Cherry	Low	Variable	Tall Shrub	wooding down moony.			
	Red Oak	7	Pole/Sapling	5	37	Hazeln	ut (Beaked)	Low	5 - 10 feet	Tall Shrub				
17	4130	- Aspen		Sapling	g Well	19.5	6	Immature	N/A		Regen looks good, meets MO.			
	Canopy Species		Size Class	DBH	I Age						Overmature aspen with mixed hdwds was final harvested with reserves in			
	Red Maple	15	Sapling	1	6						2016 (#605-14), cutting stems 2"+ DBH except two sub-acre retention			
	Quaking Aspen	30	Sapling	1	6						islands that are inclusions within this stand. Did not visit this stand during sale closing, so monitoring treatment will be kept in place.			
			0 11	4	G						sale desing, so mentering rearment will be kept in place.			
	Bigtooth Aspen Red Oak	50	Sapling Sapling	1	6									

Stand	d Level 4 Co	over Type	Size Density		Size Density		Size Density		Size Density		Size Density		Size Density		Stand Age	BA Range	Managed \$	Site	General Comments
18	4131 - A	spen, Oak		Sapling	Well	34.9	6	Immature	N/A		Mature O-A-RM stand was final harvested with reserves in 2016 (#605-14),								
	Canopy Species	% Cover	Size Class	DBH	Age						cutting stems 2"+ DBH except pine, beech, and retention islands (new stand 71 and two sub-acre inclusions in SE corners). The beech were left								
	Beech	2	Pole/Sap/Log	6							for future snags. Regen passed to M.O. at time of sale closing in 2019.								
	Red Oak	1	Log	14	85														
	Bigtooth Aspen	50	Sapling	1	6														
	Bigtooth Aspen	1	Log	11															
	Red Oak	20	Sapling	1	6														
	Red Maple	25	Sapling	1	6														
	Red Pine	1	XLog/Log	20															
19	3204 - Mast P	Producing S	hrub	Nonsto	cked	1.9		Unspecified	No		Dry upland opening; prominantly cherry brush, along with serviceberry & encroaching aspen.								
20	4130	- Aspen	S	apling N	/ledium	25.3	16	Immature	N/A		Cut merch & up in late 2005 under 72-062-04-01, except for a sub-acre								
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	were sparse to start with along the road saw some in-growth but are still								
	Bigtooth Aspen	25	Sapling	1	16	Prai	rie Willow	Low	< 5 feet	Tall Shrub	largely U/G. Small pockets where the mature aspen had succumbed to								
	Black Cherry	5	Sapling	1		Servicebe	erry (Juneberr	y) Low	10 - 20 feet	Tall Shrub	fungal disease and broke up before harvest have sparse to no aspen suckering. Overall though, the stand does meet minimum acceptable								
	Red Oak	5	Sapling	1	16	Hawt	thorn (spp.)	Low	5 - 10 feet	Tall Shrub	regen standards. The merch & up cutting spec left a scattering of large								
	Quaking Aspen	55	Sapling	1	16	Wit	tch Hazel	Low	< 5 feet	Tall Shrub	sap/small pole aspen & oak. Heavy preferential deer browse on the RM &								
	Red Maple	10	Sapling	1	16						oak stump sprouts in the stand's NW, but not in the SE.								
21		- Aspen	Р	oletimb	er Well	18.3	37	51-80	N/A		Cut merch & up in 1985 under 72-255-84-01. Still transitioning into the pole class. Stand has dense aspen clones with minor RM & RO components,								
	Canopy Species	% Cover			Age		nopy Specie		Avg. Height	Size	separated by RM, RO & paper birch dominated areas with only minor								
	Red Maple	20	Sapling/Pole	4	37		tch Hazel	Medium	10 - 20 feet	Tall Shrub	about the second of IMA beauty to the second of the second								
	Red Oak	10	Pole/Sapling	6	37		erry (Juneberr	, ,	10 - 20 feet	Tall Shrub	oast and								
	Quaking Aspen	30	Pole/Sapling	5	37		ck Cherry	Low	Variable	Tall Shrub									
	Bigtooth Aspen	37	Pole/Sapling	5	37		nut (Beaked)	Low	5 - 10 feet	Tall Shrub									
	Paper Birch	3	Sapling/Pole	3	37	Maple Le	aved Viburnui	m Medium	< 5 feet	Tall Shrub)								
22	4139 - Aspen, I	Mixed Deci	duous P	oletimb	er Well	21.3	37	1-50	N/A		Cut merch & up in 1985 under 72-255-84-01. Aspen, red maple and oak with a mixed hardwood component. The stand is transitioning into the pole								
	Canopy Species	% Cover	Size Class	DBH	Age		nopy Specie		Avg. Height	Size	class, with much of the hardwood cover still sapling-sized. The aspen								
	Sugar Maple	10	Sapling	3	37	Servicebe	erry (Juneberr	y) Low	5 - 10 feet	Tall Shrub	(mostly quaking) and oak are farthest into the pole category, with the red								
	Red Maple	15	Sapling/Pole	4	37	Hazelr	nut (Beaked)	Low	5 - 10 feet	Tall Shrub	oak being the real stand-out in terms of growth & vigor. The hard maple & beech occur mostly in high stem density, stagnating stump clumps. There								
	Beech	2	Sapling	2		Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub	are small openings within the stand and scattered RP & WP.								
	Red Oak	15	Pole/Sapling	6	37	Maple Le	aved Viburnui	m Low	< 5 feet	Tall Shrub									
	Paper Birch	3	Sapling/Pole	3	37														
	Quaking Aspen	50	Pole/Sapling	5	37														
	Ironwood	2	Sapling	2															
	Bigtooth Aspen	3	Pole/Sapling	5	37														



Stand	d Level 4 Co	ver Type	Size Density		Size Density		Size Density		Size Density		Size Density		•		Stand Age	BA Range	Managed S	Site	General Comments
23	4131 - As	spen, Oak		Sapling	Well	19.3	6	Immature	N/A		Mature O-A-M stand was final harvested with reserves in 2016 (#605-14),								
	Canopy Species	% Cover	Size Class	DBH	Age						cutting stems 2"+ DBH except pine, beech, ash and retention islands. Beech and ash were left for future snags. Regen passed to M.O. at time of								
	Beech	3	Pole/Sap/Log	8							sale closing in 2019.								
	Red Oak	25	Sapling	1	6														
	Bigtooth Aspen	47	Sapling	1	6														
	Red Maple	25	Sapling	1	6														
24	4130 -	Aspen		Sapling	Well	18.2	27	Immature	N/A		Cut 2" & up in late 1994 under 72-029-94-01. West aspect, shallow slope leveling out. BTA & QA with RM & vigorous oak stump sprouts. A couple								
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	of U/G inclusions within the stand.								
	Quaking Aspen	35	Sapling	2	27	Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub									
	Bigtooth Aspen	50	Sapling	2	27	Maple Le	aved Viburnu	um Low	< 5 feet	Tall Shrub									
	Red Maple	10	Sapling	2	27	Servicebe	erry (Juneber	ry) Low	5 - 10 feet	Tall Shrub									
	Red Oak	5	Sapling	3	27	Hazelr	nut (Beaked)	Low	5 - 10 feet	Tall Shrub									
25	4130 -	Aspen		oletimb	er Wel	20.8	37	1-50	N/A		Cut merch & up in 1985 under 72-255-84-01. Sprout/root-sucker origin stems transitioning into the pole class. BTA & QA with RM, HM, PB &								
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	clean-boled NRO. The oak is vigorous, & stump clumps are weeding down								
	Sugar Maple	13	Sapling	3	37	Hazelr	nut (Beaked)	Low	5 - 10 feet	Tall Shrub	nicely. Stand's east third transitions into less aspen & more low-end								
	Bigtooth Aspen	35	Pole/Sapling	5	37	Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub	hardwoods. HM & beech not growing as vigorous as the rest. Basswood & white ash primarily on the east half.								
	Red Maple	6	Sapling/Pole	4	37	Maple Le	aved Viburnu	um Low	< 5 feet	Tall Shrub	white ash primarily on the east hall.								
	Ironwood	2	Sapling	3		Servicebe	erry (Juneber	ry) Low	5 - 10 feet	Tall Shrub									
	White Ash	2	Sapling	4	37	I	Beech	Low	Variable	Sapling									
	Beech	3	Sapling	3	37														
	Red Oak	10	Pole/Sapling	6	37														
	Paper Birch	2	Sapling/Pole	4	37														
	Basswood	2	Sapling	4															
	Quaking Aspen	25	Pole/Sapling	5	37														
26	4130 -	Aspen		Sapling		22.3	16	Immature	N/A		Cut merch & up in early 2006 under 72-062-04-01. High-end aspen site;								
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	component. Light browse, majority of stems punched past the browse line.								
	Quaking Aspen	10	Sapling	1	16		nut (Beaked)		< 5 feet	Tall Shrub	+ g								
Bla	ick/Red (Hybrid) Oak	8	Sapling	1	16		tch Hazel	Low	< 5 feet	Tall Shrub	above the aspen in places.								
	Bigtooth Aspen	51	Sapling	1	16	Maple Le	aved Viburnu	um Medium	< 5 feet	Tall Shrub									
	Black Cherry	3	Sapling	1	16														
	Sugar Maple	5	Sapling	1	16														
	Ironwood	3	Sapling	1	16														
	Red Maple	15	Sapling	1	16														
	White Ash	2	Sapling	1	16														
	Beech	3	Sapling	1	16														

Stand	Level 4 Co	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
27	3105 - Mixed Up	oland Herba	aceous	Nonsto	cked	4.0		Unspecified	Managed O	pening	Barren area of firing point.
											Military Firing Point 221 opening. East side cleared & expanded in 2011. Uncleared west side has cherry & willow brush. New stand boundary not visible on the available imagery.
28	4130	- Aspen		Sapling	g Well	17.4	6	Immature	N/A		Overmature BTA with RO & mixed hdwds was final harvested with reserves
	Canopy Species	% Cover	Size Class	DBH	I Age						in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech and a retention island (new stand 72). The beech were left for future snags.
	Beech	5	Pole/Sap/Log	8							Regen passed to M.O. at time of sale closing in 2019.
	Red Maple	10	Sapling	1	6						
	Red Oak	10	Sapling	1	6						
	Bigtooth Aspen	70	Sapling	1	6						
	White Oak	5	Sapling	1	6						
29	4130	- Aspen	F	Poletimb	er Wel	l 21.1	37	1-50	N/A		Cut merch & up in 1985 under 72-255-84-01. Aspen (mostly bigtooth), with
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size	vigorous oak, the usual RM, and poor-quality northern hardwoods. The hard maple and small amounts of paper birch, basswood, white ash and
	Sugar Maple	5	Sapling/Pole	3	37	Wite	ch Hazel	Low	5 - 10 feet	Tall Shrub	beech tend toward high stem densities and small diameters. On rolling
	Red Maple	10	Sapling/Pole	3	37	Servicebe	rry (Juneberr	y) Low	5 - 10 feet	Tall Shrub	terrain. Staghorn sumac concentrated along the two-track.
	Red Oak	15	Pole/Sapling	6	37						
	Bigtooth Aspen	66	Sapling/Pole	4	37						
	Ironwood	2	Sapling/Pole	3							
	Paper Birch	2	Sapling/Pole	3	37						
30	4130	- Aspen	F	Poletimb	er Wel	l 22.0	36	1-50	N/A		Cut merch & up in 1986 under 72-255-84-01. Rolling terrain. Better ground, start seeing beech, sugar maple, ironwood. Aspen, RM & oak
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size	transitioning into the pole class. Oak stump sprouts vigorous, co-dominant
	Sugar Maple	2	Sapling	3	36	Hazeln	ut (Beaked)	Low	5 - 10 feet	Tall Shrub	
	Red Maple	7	Sapling/Pole	3	36	Wite	ch Hazel	Medium	5 - 10 feet	Tall Shrub	
	Beech	2	Sapling	3	36	Maple Lea	aved Viburnu	m Low	< 5 feet	Tall Shrub	
	Red Oak	7	Pole/Sapling	5	36						
	Paper Birch	2	Sapling/Pole	4	36						
	Quaking Aspen	30	Pole/Sapling	5	36						
	Bigtooth Aspen	50	Pole/Sapling	5	36						
31	4199 - Other Mixe	d Upland D	eciduous S	Sapling N	Medium	n 17.7	6	Immature	N/A		Mature O-M stand was final harvested with reserves in 2016 (#605-14),
	Canopy Species	% Cover	Size Class	DBH	I Age						cutting stems 2"+ DBH except pine, beech, ash, white oak, green-marked trees and retention islands (largest captured as new stand 74). The beech
	Sugar Maple	10	Sapling	1	6						& ash were left for future snags. Regen passed to M.O. at time of sale
	Red Maple	20	Sapling	1	6						closing in 2019.
	Basswood	10	Sapling	1	6						
	Red Oak	39	Sapling	1	6						
	Red Oak	1	XLog/Log	20							
	Bigtooth Aspen	10	Sapling	1	6						
	Beech	10	Pole/Sap/Log	8							



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
32	4130	- Aspen	ı	Poletimb	er Well	19.2	37	1-50	N/A		Cut merch & up in 1985 under 72-255-84-01. Still transitioning into the pole
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	class, with the aspen and oak farther along than the northern hardwoods component. The hardwoods (sugar maple with small amounts of white ash,
	Bigtooth Aspen	25	Pole/Sapling	5	37	Servicebe	rry (Juneberry)	Low	Variable	Tall Shrub	paper birch, ironwood, basswood & beech) tend toward high stem densities
	Sugar Maple	18	Sapling/Pole	2	37					-	and small diameters. The real stand-out in terms of growth and vigor is the
	Red Maple	2	Sapling/Pole	3	37						red oak. Within the stand, the oak form is the best where it is growing in association with the aspen (vs. the northern hardwoods); the aspen trains it
	Red Oak	10	Pole/Sapling	6	37						to grow straighter, taller and cleaner-boled.
	White Ash	5	Sapling/Pole	3	37						
	Paper Birch	2	Sapling/Pole	3							
	Quaking Aspen	35	Pole/Sapling	5	37						
	Ironwood	3	Sapling	2							
33	4130	- Aspen		Sapling	Well	16.6	27 I	mmature	N/A		Cut 2" & up in late 1994 under 72-029-94-01. Rolling terrain. Aspen
	Canopy Species	% Cover	Size Class		Age	Sub-Car	nopy Species	Density	Avg. Height	Size	(mostly BTA) with RM, oak & a trace of PB. Oak stump sprouts are
	Red Maple	5	Sapling	2	27		ut (Beaked)	Low	5 - 10 feet	Tall Shrub	vigorous and co-dominant to dominant in the canopy.
	Quaking Aspen	20	Sapling	2	27		aved Viburnum		< 5 feet	Tall Shrub	
	Bigtooth Aspen	70	Sapling	2	27		ch Hazel	Low	5 - 10 feet	Tall Shrub	
	Red Oak	5	Sapling/Pole		27		rry (Juneberry)		5 - 10 feet	Tall Shrub	
	rtod Odit	o l	Саршід/і ою			COLVICORO	my (danobomy)	2011	0 101001	Tall Office	1
34		- Aspen		Sapling N		21.2		mmature	N/A		Cut merch & up in early 2006 under 72-062-04-01. Aspen (mostly quaking) with red maple and a northern hardwoods component. The stand's NW is
	Canopy Species	% Cover	Size Class	DBH	Age		nopy Species	Density	Avg. Height	Size	heavy to low-end hardwoods & blackberry, with vigorous oak stump sprouts
	Red Oak	5	Sapling	1	16		ut (Beaked)	Low	< 5 feet	Tall Shrub	
	Black Cherry	5	Sapling	1	16		ry/Raspberry	Medium	< 5 feet	Tall Shrub	heen heavily browsed. Regen in the stand's SE is not as dense or tall as
	Bigtooth Aspen	5	Sapling	1	16	Servicebe	rry (Juneberry)	Low	5 - 10 feet	Tall Shrub	the rest, but continues to fill in. The QA clones are expanding into the lower-
	Red Maple	8	Sapling	1	16	Е	Beech	Low	< 5 feet	Seeding	coverage hardwood areas of the stand.
	Beech	8	Sapling	1	16						
	Quaking Aspen	55	Sapling	1	16						
	Ironwood	4	Sapling	1	16						
	Sugar Maple	10	Sapling	1	16						
35	4311 - Pin	e, Aspen M	ix s	Sawtimb	er Well	15.3	57	51-80	N/A		White Pine with significant deciduous component (aspen, RM, PB & oak,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	with off-site HM, beech & ironwood). Seven acres that landed in the adjacent 20-acre grouse blocks were cut merch & up in 1985 under 72-255-
	Red Oak	2	Pole/Sapling	6	37	Maple Lea	aved Viburnum	Low	< 5 feet	Tall Shrub	84-01 and are pole/sapling in size and intermediate in the canopy (second
	Red Oak	3	Log	16		Servicebe	rry (Juneberry)	Medium	Variable	Tall Shrub	age). A lot of cull in the mature-overmature aspen & PB. Saw oak wolfy.
	Paper Birch	3	Log	12		Red	d Maple	Low	>20 feet	Sapling	
	Quaking Aspen	25	Pole/Sap/Log	9 8		Е	Beech	Low	10 - 20 feet	Sapling	
	Sugar Maple	2	Log/Pole	12		Iro	nwood	Low	10 - 20 feet	Sapling	
	Bigtooth Aspen	7	Log/Pole	10		Wite	ch Hazel	Low	5 - 10 feet	Tall Shrub	
	Red Maple	3	Log	12		Hazeln	ut (Beaked)	Medium	5 - 10 feet	Tall Shrub	
	Beech	2	Pole	6		Wh	nite Pine	Medium	Variable	Sapling	
	Sugar Maple	3	Pole/Sapling	5	37				1		1
	White Pine	50	Log/Pole	12	57						



Stan	d Level 4 C	over Type	S	ize De	ensity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
36	4130	- Aspen	P	oletimb	er Well	15.9	37	51-80	N/A		Cut merch & up in 1985 under 72-255-84-01. Still transitioning into the pole class. Aspen with good quality oak and low-end hardwoods, including a
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	trace of basswood & white ash. The oak is clean-boled & vigorous. A few
	Beech	3	Pole/Sapling	5			Beech	Low	Variable	Sapling	white pine present. See Management Considerations.
	Red Oak	6	Pole/Sapling	6	37	Bla	ck Cherry	Low	Variable	Tall Shrub	
	Quaking Aspen	55	Pole/Sapling	5	37	Hazelı	nut (Beaked)	Low	5 - 10 feet	Tall Shrub	
	White Pine	2	Log/Pole	12							-
	Ironwood	2	Sapling	3							
	Sugar Maple	10	Sapling/Pole	4	37						
	Red Maple	7	Pole/Sapling	5	37						
	Bigtooth Aspen	15	Pole/Sapling	5	37						
37	4130	- Aspen	P	oletimb	er Well	16.6	37	1-50	N/A		Cut merch & up in 1985 under 72-255-84-01. Aspen stand still transitioning
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	into the pole class. BTA with vigorous NRO, and the ususal red maple. Stand is on shallow ridge/valley terrain sloping down to the east. The
	Sugar Maple	2	Sapling	2	37	Servicebe	erry (Juneberry)	Low	5 - 10 feet	Tall Shrub	quaking aspen is moslty in the stand's east on the flats where the cover is
	Red Maple	8	Sapling/Pole	4	37	Wi	tch Hazel	Medium	5 - 10 feet	Tall Shrub	patchier. Some WP also occurs in the stand's NE. The better ground is in
	Red Oak	5	Pole/Sapling	5	37						the west, with traces of hard maple, paper birch, and beech.
	Bigtooth Aspen	80	Pole/Sapling	5	37						
	Quaking Aspen	5	Pole/Sapling	5	37						
38	4130	- Aspen		Saplino	y Well	20.3	6 li	mmature	N/A		Overmature aspen with O-RM was final harvested with reserves in 2016
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	(#605-14), cutting stems 2"+ DBH except pine, white oak, green-marked trees and retention islands (new stand 75). Regen passed to M.O. at time
	Red Maple	20	Sapling	1	6	W	hite Pine	Low	Variable	Sapling	of sale closing in 2019.
	Red Oak	1	XLog/Log	20							•
	Red Oak	14	Sapling	1	6						
	Bigtooth Aspen	65	Sapling	1	6						
39	4131 - <i>A</i>	Aspen, Oak		Saplino	y Well	16.4	6 li	mmature	N/A		Overmature A-M stand was final harvested with reserves in 2016 (#605-
	Canopy Species	% Cover	Size Class	DBH	I Age						14), cutting stems 2"+ DBH except pine, beech, and white oak, The beech were left for future snags. Regen passed to M.O. at time of sale closing in
	Red Maple	10	Sapling	1	6						2019.
	Beech	1	Pole/Sap/Log	8							
	Red Oak	20	Sapling	1	6						
	White Pine	4	Pole/Sap/Log	8							
	Bigtooth Aspen	65	Sapling	1	6						
40	4130	- Aspen	P	oletimb	er Well	19.4	37	1-50	N/A		Cut merch & up in 1985 under 72-255-84-01. Aspen stand still transitioning
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	into the pole class, with some clones farther along than others. The maple beech and paper birch tend toward high stem densities and low diameters.
		8	Sapling/Pole	4	37		nut (Beaked)	Low	< 5 feet	Tall Shrub	The RO is vigorous and weeding down to fewer stems per clump. See
	Red Maple	0		1 -							1
	Red Maple Red Oak	7	Pole/Sapling	5	37	Wi	tch Hazel	Low	5 - 10 feet	Tall Shrub	Management Considerations.
	<u>'</u>				37 37		ch Hazel erry (Juneberry)	Low	5 - 10 feet 5 - 10 feet	Tall Shrub	
	Red Oak	7	Pole/Sapling	5	-						

t 7 – Stands

MICHIGAN

Compartment: 268

Year of Entry: 2024

Stand	Level 4 Co	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments
41	4130 -	- Aspen	P		er Well	14.0	36	51-80	N/A		Cut merch & up in 1986 under 72-255-84-01. Rolling terrain. Aspen transitioning into the pole class. Highest ground with predminantly BTA,
	Canopy Species	% Cover	Size Class		I Age	Sub-Can	nopy Species	Density	Avg. Height	Size	switching to QA on lower slopes. RM & oak stump-origin associates. Oak
	Sugar Maple	2	Sapling	3	36	Hazelnı	ut (Beaked)	Low	5 - 10 feet	Tall Shrub	vigorous & weeding down to fewer stems. A trace of beech, sugar maple
	Red Maple	8	Sapling/Pole	4	36	Maple Lea	aved Viburnum	n Low	< 5 feet	Tall Shrub	& ironwood on the higher ground.
	Beech	2	Sapling	3	36	Servicebei	rry (Juneberry) Low	10 - 20 feet	Tall Shrub	
	Bigtooth Aspen	55	Pole/Sapling	5	36	Wito	ch Hazel	Medium	10 - 20 feet	Tall Shrub	
	Pin Cherry	2	Sapling/Pole	3							
Blac	k/Red (Hybrid) Oak	6	Pole/Sapling	6	36						
	Quaking Aspen	25	Sapling/Pole	4	36						
42	4130 -	- Aspen	Р	oletimb	er Well	1 20.2	37	1-50	N/A		Cut merch & up in 1985 under 72-255-84-01. Aspen-maple-oak stand still
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	nopy Species	Density	Avg. Height	Size	transitioning into the pole class, with the BTA and RO farthest along. The mixed hardwoods (red and sugar maple, with small amounts of beech,
	Bigtooth Aspen	65	Sapling/Pole	4	37	Wito	ch Hazel	Low	5 - 10 feet	Tall Shrub	
	Quaking Aspen	2	Sapling/Pole	4	37	Servicebei	rry (Juneberry) Low	5 - 10 feet	Tall Shrub	class. The RO is vigorous and is weeding down the # stems/stump clump
	Sugar Maple	4	Sapling	2	37			<u> </u>			faster than the maple.
	Beech	2	Sapling	3	37						
	Red Oak	10	Pole/Sapling	5	37						
	Ironwood	2	Sapling	2							
	Red Maple	15	Sapling	3	37						
43	3204 - Mast P	roducing S	hrub	Nonsto	ocked	2.1	l	Jnspecified	No		Valley opening. Serviceberry, hawthorn, cherry & staghorn sumac with encroaching maple & aspen.
44	4130 -	Aspen		Saplino	g Well	24.3	6	Immature	N/A		Mature A-O stand was final harvested with reserves in 2016 (#605-14),
	Canopy Species	% Cover	Size Class	DBH	l Age						cutting stems 2"+ DBH except pine, beech, ash, white oak, green-marked trees and retention islands (largest captured as new stand 77). The beech
	Red Maple	10	Sapling	1	6						& ash were left for future snags. Regen passed to M.O. at time of sale
	Beech	2	Pole/Sap/Log	8							closing in 2019.
	Red Oak	2	Log/XLog	16							
	Bigtooth Aspen	1	Log	11	81						
	Bigtooth Aspen	75	Sapling	1	6						
	Red Oak	10	Sapling	1	6						
45	3301 - Low Densit	ty Deciduo	us Trees	Nonst	ocked	4.2	Į	Jnspecified	No		Heavy military use along forest access route.
						Sub-Can	nopy Species	Density	Avg. Height	Size	On the flats; low density trees with mast producing shrubs. Mostly
							k Cherry	Low	3 - 3 -	Tall Shrub	hybridized black/red oak with open-grown form (large-diameter, heavy
							d Maple	Trace		Pole	limbs, low forks). Similar stature oak cut in the adjacent stand to the south
							ite Oak	Trace		Pole	were 120+ years old with interior cavities, and they did not stump sprout.
											Occasional red maple, white oak and aspen. Sweet fern and bracken fern
						Prair	ie Willow	Low		Tall Shrub	visible above the snow.
							ie Willow d (Hybrid) Oak			Log	visible above the snow.



Stand	Level 4 Co	ver Type	S	Size De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
46	4139 - Aspen, N	Mixed Decid	duous P	oletimb	er Wel	I 21.3	36	1-50	N/A		Cut merch & up in 1986 under 72-255-84-01. Still transitioning into the pole
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	class, east half of the stand not as far along as the west half. Cover varies from dense aspen clones with maple & oak mixed in, to maple & oak
	Bigtooth Aspen	25	Pole/Sapling	5	36	Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	
	Ironwood	2	Sapling	2		Servicebe	erry (Juneberry)) Low	5 - 10 feet	Tall Shrub	small-diameter with high stem densities. The oak stems are the real stand-
	Sugar Maple	15	Sapling	3	36	Blad	ck Cherry	Low	Variable	Tall Shrub	out: vigorous & clean-boled, jumping ahead of the maple. Occasional PB, WP & white ash saplings. See Management Considerations.
	Red Oak	15	Pole/Sapling	6	36			'	1		White doin suprings. See Management Considerations.
	Red Maple	15	Sapling	3	36						
	Quaking Aspen	25	Pole/Sapling	5	36						
	Beech	3	Sapling	2							
47	4130 -	- Aspen		Saplino	g Well	14.6	17	Immature	N/A		Split from stand 80. Higher density aspen regen.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Cut merch & up in 2005 under 72-062-04-01. Mostly BTA, along with RM,
1	Quaking Aspen	5	Sapling	1	17	Blad	ck Cherry	Low	5 - 10 feet	Tall Shrub	oak, quaking aspen and cherry. The stand's south half has dense aspen
	Bigtooth Aspen	85	Sapling	1	17	Servicebe	erry (Juneberry)) Low	5 - 10 feet	Tall Shrub	cover but the north half is patchier, bringing the overall canopy closure
	Red Maple	5	Sapling	1	17			,			down to 50-75%. The aspen in the north half is not a well-developed, with sub-acre pockets that had sparse sprouting and heavy browse. The oak
	Red Oak	5	Sapling	1	17						that has recruited is 8' tall and vigorous.
											•
48	4199 - Other Mixed			Sapling		9.7	6	Immature	N/A		Regen looks good.
	Canopy Species	% Cover	Size Class	DBH	l Age	9.7	6	Immature	N/A		Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14),
	Canopy Species Red Maple	% Cover 25	Size Class Sapling	DB I		9.7	6	Immature	N/A		Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a
	Canopy Species Red Maple Beech	% Cover 25 15	Size Class Sapling Pole/Sap/Log	DBH 1	l Age	9.7	6	Immature	N/A		Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14),
	Canopy Species Red Maple Beech Red Oak	% Cover 25 15 5	Size Class Sapling Pole/Sap/Log Log/XLog	DBH 1 8 16	6 6	9.7	6	Immature	N/A		Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a
	Canopy Species Red Maple Beech Red Oak Bigtooth Aspen	% Cover 25 15 5 35	Size Class Sapling Pole/Sap/Log Log/XLog Sapling	DBH 1 8 16 1	6 6	9.7	6	Immature	N/A		Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a
	Canopy Species Red Maple Beech Red Oak	% Cover 25 15 5	Size Class Sapling Pole/Sap/Log Log/XLog	DBH 1 8 16	6 6	9.7	6	Immature	N/A		Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a
	Canopy Species Red Maple Beech Red Oak Bigtooth Aspen Red Oak	% Cover 25 15 5 35	Size Class Sapling Pole/Sap/Log Log/XLog Sapling Sapling	DBH 1 8 16 1 1	6 6		6	Immature 81-110	N/A		Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a retention island (new stand 79). The beech was left for future snags.
49	Canopy Species Red Maple Beech Red Oak Bigtooth Aspen Red Oak	% Cover 25 15 5 35 20	Size Class Sapling Pole/Sap/Log Log/XLog Sapling Sapling	DBH	6 6 6	I 63.0		81-110		Size	Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a retention island (new stand 79). The beech was left for future snags. NW peninsula harvested in 2016, split off as stand 76. Original stand 49
49	Canopy Species Red Maple Beech Red Oak Bigtooth Aspen Red Oak 4123 - I	% Cover 25 15 5 35 20	Size Class Sapling Pole/Sap/Log Log/XLog Sapling Sapling	DBH	6 6 6	l 63.0 Sub-Ca	85	81-110	N/A	Size Sapling	Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a retention island (new stand 79). The beech was left for future snags. NW peninsula harvested in 2016, split off as stand 76. Original stand 49 comments from 2012: On rolling to steep terrain. Most of the stand occupies the east aspect of a 100-foot tall ridge, with that sideslope
49	Canopy Species Red Maple Beech Red Oak Bigtooth Aspen Red Oak 4123 - I	% Cover 25 15 5 35 20 Red Oak % Cover	Size Class Sapling Pole/Sap/Log Log/XLog Sapling Sapling Sapling Size Class	DBH 1 8 16 1 1 1 mawtimb	6 6 6	l 63.0 Sub-Ca	85 nopy Species	81-110 Density	N/A Avg. Height		Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a retention island (new stand 79). The beech was left for future snags. NW peninsula harvested in 2016, split off as stand 76. Original stand 49 comments from 2012: On rolling to steep terrain. Most of the stand occupies the east aspect of a 100-foot tall ridge, with that sideslope dissected by numerous valleys. The cover is predominantly NRO, with
49	Canopy Species Red Maple Beech Red Oak Bigtooth Aspen Red Oak 4123 - I Canopy Species Sugar Maple	% Cover 25 15 5 35 20	Size Class Sapling Pole/Sap/Log Log/XLog Sapling Sapling Sapling Size Class Pole	DBH 8 16 1 1 1 1 mawtimb	6 6 6 er Wel	I 63.0 Sub-Ca	85 nopy Species onwood	81-110 Density Low Low	N/A Avg. Height Variable	Sapling	Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a retention island (new stand 79). The beech was left for future snags. NW peninsula harvested in 2016, split off as stand 76. Original stand 49 comments from 2012: On rolling to steep terrain. Most of the stand occupies the east aspect of a 100-foot tall ridge, with that sideslope dissected by numerous valleys. The cover is predominantly NRO, with suppressed-intermediate RM, poor quality mixed hardwoods, and pockets
49	Canopy Species Red Maple Beech Red Oak Bigtooth Aspen Red Oak 4123 - I Canopy Species Sugar Maple Red Oak	% Cover 25 15 5 35 20	Size Class Sapling Pole/Sap/Log Log/XLog Sapling Sapling Sapling Size Class Pole Log/Pole	DBH 1 8 16 1 1 1 awtimb DBH 8 10	6 6 6 er Wel	I 63.0 Sub-Ca	85 nopy Species onwood	81-110 Density Low Low	N/A Avg. Height Variable 5 - 10 feet	Sapling Tall Shrub	Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a retention island (new stand 79). The beech was left for future snags. NW peninsula harvested in 2016, split off as stand 76. Original stand 49 comments from 2012: On rolling to steep terrain. Most of the stand occupies the east aspect of a 100-foot tall ridge, with that sideslope dissected by numerous valleys. The cover is predominantly NRO, with
49	Canopy Species Red Maple Beech Red Oak Bigtooth Aspen Red Oak 4123 - I Canopy Species Sugar Maple Red Oak Paper Birch	% Cover 25 15 5 35 20 Red Oak Cover 2 75 1	Size Class Sapling Pole/Sap/Log Log/XLog Sapling Sapling Sapling Size Class Pole Log/Pole Pole	DBH 1 8 16 1 1 2 awtimb BH 8 10 7	6 6 6 er Wel	I 63.0 Sub-Ca	85 nopy Species onwood	81-110 Density Low Low	N/A Avg. Height Variable 5 - 10 feet	Sapling Tall Shrub	Regen looks good. Mature O-A-M stand was final harvested with reserves in 2016 (#605-14), cutting stems 2"+ DBH except pine, beech, green-marked trees and a retention island (new stand 79). The beech was left for future snags. NW peninsula harvested in 2016, split off as stand 76. Original stand 49 comments from 2012: On rolling to steep terrain. Most of the stand occupies the east aspect of a 100-foot tall ridge, with that sideslope dissected by numerous valleys. The cover is predominantly NRO, with suppressed-intermediate RM, poor quality mixed hardwoods, and pockets of BTA. There are widely-scattered RP & white oak across the stand, and



Stand	Level 4 Co	ver Type		Size De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
50	3205 - Mixed	Upland Sh	nrub	Nonst	ocked	5.2	1	Unspecified	No		Upland brush with scattered trees. Stand contains a former landing west of
						Sub-Ca	nopy Species	Density	Avg. Height	Size	the road.
						Black/Re	d (Hybrid) Oal	k Low		Log	
						Pra	rie Willow	Low		Tall Shrub	
						Qua	king Aspen	Trace		Pole	
						Bigto	ooth Aspen	Trace		Pole	
						Bla	ck Cherry	Low		Tall Shrub	
						Servicebe	erry (Juneberry	/) Low		Tall Shrub	
						Re	ed Maple	Low		Pole	
51	4130 -	Aspen		Sapling l	Medium	45.1	27	Immature	N/A		Cut 2" & up in late 1994 under 72-025-94-01, except for widely scattered
(Canopy Species	% Cover	Size Class	DBH	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	wolfy xlog oak. Multipoly: 1-acre patch cut ~300' south of the main sale polygon. Aspen stand on the flats, with clones separated by upland brush.
Е	Bigtooth Aspen	15	Sapling	3	27	Bla	ck Cherry	Low	Variable	Tall Shrub	Health and vigor varies between clones. The BTA (mostly west of the road)
	Red Maple	2	Sapling	1	27	Servicebe	erry (Juneberry	/) Medium	10 - 20 feet	Tall Shrub	is better developed. The QA has a higher incidence of hypoxylon and
C	Quaking Aspen	80	Sapling	2	27						black canker. OFS point is an alder-willow wetland inclusion.
Black	/Red (Hybrid) Oak	3	Sapling	2	27						
52	4131 - As	spen, Oak	S	awtimbe	r Mediu	m 13.8	57	1-50	N/A		Marginal, catch-all stand that incorporates patches of red maple, aspen and
	Canopy Species	% Cover			l Age		nopy Species		Avg. Height	Size	oak that were left when the adjacent harvests were set up and when FP123
	Bigtooth Aspen	20	Pole/Log	7	57		ed Maple	Low	Variable	Sapling	was expanded. The RM is generally in oversized pulp stump clumps, the oak tends to be open-grown (especially the xlog stems), and the aspen
	Quaking Aspen	20	Pole/Log	8	0.		king Aspen	Low	10 - 20 feet	Sapling	clones vary from immature to overmature. There isn't a lot separating this
	:/Red (Hybrid) Oak	25	Log/XLog	16			erry (Juneberry		10 - 20 feet	Tall Shrub	stand from the upland shrub/low density tree stands that it encompasses.
	Red Maple	35	Pole/Log	9	76		, (°	, ,			The stand saw heavy impact in the past from tracked vehicle traffic.
53	3205 - Mixed	Upland Sh	nrub	Nonst	ocked	2.2	I	Unspecified	No		Upland brush with scattered trees. Includes two former landings on either
						Sub-Ca	nopy Species	Density	Avg. Height	Size	side of the road, and healed-over ruts from past tracked vehicle traffic.
						0	ooth Aspen	Trace		Pole	
						Re	ed Maple	Low		Pole	
						Black/Re	d (Hybrid) Oal	k Low		Log	
						Bla	ck Cherry	Low		Tall Shrub	
						R	ed Pine	Trace		Pole	
						Servicebe	erry (Juneberry	/) Medium		Tall Shrub	
						Pra	rie Willow	Low		Tall Shrub	
						Black/Re	d (Hybrid) Oal	k Low		Pole	
						_	king Aspen	Trace		Pole	I

Stand	Level 4 Co	over Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
54	4119 - Mixed No	rthern Hard	dwoods	Sapling	g Well	3.1	27	Immature	N/A		Cut 2" & up in late 1994 under 72-003-95-02, noted for a future gravel pit. Most of the harvest was in comp 267. Heavy to red maple, with sugar
	Canopy Species	% Cover	Size Class	DBH	H Age	Sub-Can	opy Species	Density	Avg. Height	Size	maple and red oak, and small amounts of aspen, ironwood, beech and
	Quaking Aspen	6	Sapling	3	27	Wito	h Hazel	Low	5 - 10 feet	Tall Shrub	paperbirch. The dense sprout-origin regen tend to be small diameter,
	Ironwood	5	Sapling	1		Maple Lea	ved Viburnum	n Low	< 5 feet	Tall Shrub	except for the oak which has the best height & diameter growth and is
	Sugar Maple	15	Sapling	2	27	Servicebe	rry (Juneberry) Low	5 - 10 feet	Tall Shrub	weeding down to fewer stems.
	Beech	2	Sapling	1							•
	Paper Birch	2	Sapling	2	27						
	Red Oak	15	Sapling/Pole	4	27						
	Red Maple	55	Sapling	3	27						
55	790 - Other Bare/	Sparsely V	egetated	Nonsto	ocked	7.3	l	Jnspecified	Managed O	pening	Military Firing Point 123. Firing point clearing project done in 2011. Stumped & brush-hogged. Visible where the snow had melted: grass & a lot of bare ground. A few stump piles and tree-length aspen bundles.
56	3205 - Mixed	Upland Sh	rub	Nonst	ocked	87.1	ι	Jnspecified	No		Large upland brush/low-density tree type on an old pine stumpfield.
					į	Sub-Can	opy Species	Density	Avg. Height	Size	Predominantly serviceberry, black cherry and prairie willow with scattered poor-quality red maple, open-grown oak and sub-acre aspen clones. The
					ļ	Servicebe	rry (Juneberry) Medium		Tall Shrub	tree cover is more concentrated along the perimeter and is very widely
					ļ	Blac	k Cherry	Low		Tall Shrub	scattered in the interior. Roughly 10 acres in the stand's SW burned in a
					ļ	Quaki	ng Aspen	Low		Pole	Nov 2000 wildfire (Crawford #20) that started on private. Some aspen sprouted in the fire area. OFS points are small wetland inclusions. See
					ļ	Black/Red	l (Hybrid) Oak	Low		Log	Management Considerations.
					ļ	Prair	ie Willow	Low		Tall Shrub	, and the second
					ļ	Red	d Maple	Low		Pole	
						Bigtoo	oth Aspen	Low		Pole	
57	6220 - A	lder/willow		Nonsto	ocked	10.4	l	Jnspecified	No		Salix with spiraea & dogwood. Widely scattered quaking aspen. Slough drain starts in it and flows out to the river.
58	330 - Low-I	Density Tre	es	Nonsto	ocked	12.3	0 ι	Jnspecified	413 - As	pen	Harvested in December 2017.
						Sub-Can	opy Species	Density	Avg. Height	Size	Stand boundary picks up several small aspen clones that are separated by
					ĺ				10 - 20 feet	Tall Shrub	
						Cher	ry (spp.)	Medium Low	10 - 20 feet 5 - 10 feet	Tall Shrub	upland brush. Mostly quaking aspen, with small amounts of big tooth aspen, red maple, and hybridized oak. Some break-up occuring within the
						Cher		Medium		Tall Shrub Sapling	upland brush. Mostly quaking aspen, with small amounts of big tooth aspen, red maple, and hybridized oak. Some break-up occuring within the clones. The west edge of the stand has aspen regen from a Nov 2000
60	6112 - Lov	vland Aspe	n S	Sapling I		Cher Quaki	rry (spp.) ing Aspen	Medium			upland brush. Mostly quaking aspen, with small amounts of big tooth aspen, red maple, and hybridized oak. Some break-up occuring within the clones. The west edge of the stand has aspen regen from a Nov 2000 wildfire (Crawford #20) that started on private. The stand just barely makes the threshold for overall size log. QA SI 59 Floodplain aspen stand was final harvested with retention in Feb 2018
60	6112 - Lov Canopy Species	•	n S		Medium	Cher Quaki	rry (spp.) ing Aspen	Medium Low	5 - 10 feet		upland brush. Mostly quaking aspen, with small amounts of big tooth aspen, red maple, and hybridized oak. Some break-up occuring within the clones. The west edge of the stand has aspen regen from a Nov 2000 wildfire (Crawford #20) that started on private. The stand just barely make the threshold for overall size log. QA SI 59 Floodplain aspen stand was final harvested with retention in Feb 2018 (#606-14), cutting stems 2"+ except conifers, elm, and green-marked
60		•			l Age	Cher Quaki 11.5 Sub-Car	rry (spp.) ing Aspen	Medium Low Immature Density	5 - 10 feet N/A	Sapling	upland brush. Mostly quaking aspen, with small amounts of big tooth aspen, red maple, and hybridized oak. Some break-up occuring within the clones. The west edge of the stand has aspen regen from a Nov 2000 wildfire (Crawford #20) that started on private. The stand just barely make the threshold for overall size log. QA SI 59 Floodplain aspen stand was final harvested with retention in Feb 2018 (#606-14), cutting stems 2"+ except conifers, elm, and green-marked
	Canopy Species	% Cover	Size Class	DBH	l Age	Cher Quaki 11.5 Sub-Can American Hig	try (spp.) ing Aspen 5 iopy Species	Medium Low Immature Density	5 - 10 feet N/A Avg. Height	Sapling	upland brush. Mostly quaking aspen, with small amounts of big tooth aspen, red maple, and hybridized oak. Some break-up occuring within the clones. The west edge of the stand has aspen regen from a Nov 2000 wildfire (Crawford #20) that started on private. The stand just barely make the threshold for overall size log. QA SI 59 Floodplain aspen stand was final harvested with retention in Feb 2018 (#606-14), cutting stems 2"+ except conifers, elm, and green-marked trees. The Natural Rivers restricted cutting zone was excluded as retention
	Canopy Species Red Maple	% Cover	Size Class Sapling	DB I	Age 5	Cher Quaki 11.5 Sub-Can American Hig Will	try (spp.) ing Aspen 5 iopy Species ghbush Cranbo	Medium Low Immature Density Erry Low	5 - 10 feet N/A Avg. Height 5 - 10 feet	Sapling Size Tall Shrub	upland brush. Mostly quaking aspen, with small amounts of big tooth aspen, red maple, and hybridized oak. Some break-up occuring within the clones. The west edge of the stand has aspen regen from a Nov 2000 wildfire (Crawford #20) that started on private. The stand just barely make the threshold for overall size log. QA SI 59 Floodplain aspen stand was final harvested with retention in Feb 2018 (#606-14), cutting stems 2"+ except conifers, elm, and green-marked trees. The Natural Rivers restricted cutting zone was excluded as retention The upland west edge that was intentionally included in the harvest was merged back into the adjacent upland shrub stand 56.

Report 7 - Stands



Stan	d Level 4 C	over Type	;	Size Density	Acres	Stand Age	BA Range	Managed S	Site	General Comments
61	500 -	- Water		Nonstocked	11.1		Unspecified	No		North Branch of the AuSable, a designated Natural River system.
62	6229 - Mixed	d lowland s	hrub	Nonstocked	12.9	0	Unspecified	No		Floodplain aspen stand was final harvested with retention in Feb 2021 (#606-14).cutting stems 2"+ except conifers. The Natural Rivers restricted cutting zone was excluded as retention. The upland NE edge that was intentionally included in the harvest was merged back into the adjacent upland shrub stand 64.
63	6229 - Mixed	d lowland s	hrub	Nonstocked	3.4		Unspecified	No		Lowland brush: spiraea with a perimeter of salix.
64	3205 - Mixed	d Upland S	hrub	Nonstocked	24.6		Unspecified	No		Dry upland opening with open-grown JP scattered & in sub-acre patches like a pine barrens. The shrub cover includes serviceberry, prairie willow, cherry, hawthorn, and sweetfern. There are traces of RP, oak, WP, red maple and aspen, generally concentrated along the west edge near the floodplain. Three acres of JP in the stand's NW & NE peninsulas were cut merch & up in 1994 under 72-020-94-02.
65	42220 - Nat	ural Jack F	Pine Po	letimber Mediu	m 8.7	53	51-80	N/A		Patchy JP stand, generally poles in their mid-40's with scattered
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	overmature JP that were the seed source. There are small patches of aspen, and small amounts of RP and mixed oak. The canopy is sparser
	Quaking Aspen	7	Pole/Sapling	7	Servicebe	erry (Juneberr	ry) Low	5 - 10 feet	Tall Shrub	
	Northern Pin Oak	2	Pole/Log/Sap	7	Blad	ck Cherry	Medium	5 - 10 feet	Tall Shrub	
	Jack Pine	88	Pole	7 53					<u> </u>	
	Red Pine	3	Log/Pole	12						
66	6220 - A	lder/willow		Nonstocked	8.8		Unspecified	No		Alder-willow on the floodplain with widely-scattered aspen and black willow. A footpath crosses through it to the fishing access site on the
67	3303 - Mixed L	ow Density	Trees	Nonstocked	4.8		Unspecified	4319 - Mixed Up	land Forest	Roughly three acres were cut merch & up in 1994 under 72-020-94-02.
67	3303 - Mixed L	ow Density	Trees	Nonstocked	_	nopy Specie	•	4319 - Mixed Up Avg. Height	land Forest Size	Widely scattered overstory RP, paper birch and JP were left. Regen
67	3303 - Mixed L	ow Density	/ Trees	Nonstocked	Sub-Ca		•	<u>_</u>		Widely scattered overstory RP, paper birch and JP were left. Regen includes WP (seeded in from the supercanopy WP just north of the stand), JP, RP, oak and black cherry. Discounting the cherry brush, the stand
67	3303 - Mixed L	ow Density	Trees	Nonstocked	Sub-Ca	nopy Specie	s Density	<u>_</u>	Size	Widely scattered overstory RP, paper birch and JP were left. Regen includes WP (seeded in from the supercanopy WP just north of the stand), JP, RP, oak and black cherry. Discounting the cherry brush, the stand doesn't meet the forested benchmark, but continued in-growth of WP & JP
67	3303 - Mixed L	ow Density	· Trees	Nonstocked	Sub-Ca Blac	nopy Specie ck Cherry	es Density Medium	<u>_</u>	Size Tall Shrub	Widely scattered overstory RP, paper birch and JP were left. Regen includes WP (seeded in from the supercanopy WP just north of the stand), JP, RP, oak and black cherry. Discounting the cherry brush, the stand
67	3303 - Mixed L	ow Density	Trees	Nonstocked	Sub-Ca Blac R	nopy Specie ck Cherry ed Pine	Medium Trace	<u>_</u>	Size Tall Shrub Log	Widely scattered overstory RP, paper birch and JP were left. Regen includes WP (seeded in from the supercanopy WP just north of the stand), JP, RP, oak and black cherry. Discounting the cherry brush, the stand doesn't meet the forested benchmark, but continued in-growth of WP & JP
67	3303 - Mixed L	ow Density	Trees	Nonstocked	Sub-Ca Blac Ri Ri Ri Pa	nopy Specie ck Cherry ed Pine ed Pine ack Pine per Birch	Medium Trace Low Low Trace	<u>_</u>	Size Tall Shrub Log Sapling Sapling Log	Widely scattered overstory RP, paper birch and JP were left. Regen includes WP (seeded in from the supercanopy WP just north of the stand), JP, RP, oak and black cherry. Discounting the cherry brush, the stand doesn't meet the forested benchmark, but continued in-growth of WP & JP
67	3303 - Mixed L	ow Density	Trees	Nonstocked	Sub-Ca Blac Ri Ri Ja Pa Black/Re	nopy Specie ck Cherry ed Pine ed Pine ack Pine	Medium Trace Low Low Trace	<u>_</u>	Size Tall Shrub Log Sapling Sapling	Widely scattered overstory RP, paper birch and JP were left. Regen includes WP (seeded in from the supercanopy WP just north of the stand), JP, RP, oak and black cherry. Discounting the cherry brush, the stand doesn't meet the forested benchmark, but continued in-growth of WP & JP



Stand	i Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments
68	42220 - Nat	tural Jack P	ine Pole	etimber	Mediu	m 16.4	55	51-80	N/A		Patchy JP stand with small upland openings, including the loop parking
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	area for a walk-in fishing access site. Cover includes naturally-established and planted JP & RP, a handful of super-canopy WP in the NW, and small
	Jack Pine	90	Pole	7	55	Blac	ck Cherry	Medium	Variable	Tall Shrub	amounts of xlog oak and struggling quaking aspen. The naturally-
	Red Pine	10	Log	13	67	Servicebe	erry (Juneberry)) Low	Variable	Tall Shrub	established JP is in the mid-40's, seeded in from scattered overmature JP "orchard" trees. The planted JP is near the center of the stand, and was
											established at a very wide spacing. Open-grown form is common in the JP. The planted RP is mixed in with the planted JP and also occurs in a patch at the north end and in a single sketchy row down on the floodplain. Second age is on the planted JP & RP. See OFS point and red compt folder.
69	3102	- Grass		Nonsto	cked	7.5	L	Inspecified	No		Grassy opening with widely scattered cherry brush, hawthorn, serviceberry and pine saplings. See OFS points.
70	4123 -	Red Oak	Sa	awtimbe	er Well	2.6	87	81-110	N/A		Retention islands left when stand 9 was harvested in 2016. Original stand 9 comments: small-med NRO saw with WO, RM, QA & overmature BTA.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stand's east end picks up a 5-chain wide swath of predominantly QA.
	Quaking Aspen	8	Log/Pole	10		Maple Lea	aved Viburnum	Low	< 5 feet	Tall Shrub	There's a strip of younger aspen along the stand's S edge bordering the 2-
	Bigtooth Aspen	10	Log/Pole	12		Hazeln	ut (Beaked)	Low	5 - 10 feet	Tall Shrub	track. Oak is wolfier S of the 2-track.
	White Oak	5	Log/Pole	12		Wit	ch Hazel	Low	10 - 20 feet	Tall Shrub	
	Red Maple	12	Pole/Log	8		Re	d Maple	Low	Variable	Sapling	
	Red Oak	65	Log	13	87						
71	4199 - Other Mixe	ed Upland D	eciduous Sa	awtimbe	er Well	3.3	85	111-140	N/A		Two of 4 retention islands left when stand 18 was harvested in 2016.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Original stand 18 comments: Oak and aspen, with red maple and paper birch components and minor representation in northern hardwoods. The
	Red Maple	8	Pole/Log	7		Servicebe	rry (Juneberry)) Low	Variable	Tall Shrub	NRO and BTA dominate the canopy to a varying extent across the stand.
	Red Oak	50	Log/Pole	12	85	Maple Lea	aved Viburnum	Low	< 5 feet	Tall Shrub	The RM & PB are suppressed to intermediate in the canopy, with the PB
	Paper Birch	8	Pole	8		Е	Beech	Low	Variable	Sapling	progressively dropping out. The northern hardwoods are heaviest to the NE, the BTA to the SW. The NRO is a mix of good quality small saw and
	Beech	2	Pole/Sap/Log	6		Irc	nwood	Low	Variable	Sapling	suppressed poles.
	Bigtooth Aspen	26	Log/Pole	11				,			
	Red Pine	2	XLog/Log	20							
	Sugar Maple	4	Pole	7							
72	4131 - <i>A</i>	spen, Oak	Sa	awtimbe	er Well	1.8	84	111-140	N/A		Retention island left when stand 28 was cut in 2016. Original stand 28
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	comments: Overmature BTA (conks, burls, cavities forming) with quality RO,
	Bigtooth Aspen	70	Log/Pole	10	84	Servicebe	erry (Juneberry)) Low	5 - 10 feet	Tall Shrub	suppressed-intermediate RM, and small amounts of hard maple, paper
	Red Maple	5	Pole/Sap/Log	7		Maple Lea	aved Viburnum	Low	< 5 feet	Tall Shrub	
	Red Oak	25	Log/Pole	12		Wit	ch Hazel	Medium	5 - 10 feet	Tall Shrub	BTA SI 75.



Stand	d Level 4 C	over Type	;	Size De	nsity	Acres	Stand Age E	3A Range	Managed S	Site	General Comments
73	4199 - Other Mixe	d Upland D	eciduous S	Sawtimb	er Well	3.1	86	81-110	N/A		Retention islands left when stand 23 was cut in 2016. Original stand 23
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	comments: Oak, aspen, RM & paper birch with a northern hardwoods component (hard maple and small amounts of beech, white ash, basswood
	Red Oak	40	Log/Pole	12	86	Maple Le	aved Viburnum	1 Low	< 5 feet	Tall Shrub	& ironwood). The site is high-end for oak and aspen, but is growing low-
	Beech	3	Pole/Sapling	6		Servicebe	erry (Juneberry) Low	Variable	Tall Shrub	end northern hardwoods. The NRO is good quality, the BTA overmature,
	Bigtooth Aspen	30	Log/Pole	10		Hazelr	nut (Beaked)	Low	5 - 10 feet	Tall Shrub	and the paper birch dying out. The canopy coverage in each species varies across the stand.
	White Ash	2	Log/Pole	10		Ire	onwood	Low	5 - 10 feet	Sapling	. 451555 415 5341141
	Sugar Maple	7	Pole/Log	7							
	Red Maple	10	Pole/Log	8							
	Paper Birch	8	Pole/Log	7							
74	4199 - Other Mixe	d Upland D	eciduous S	Sawtimb	er Well	1.4	89	81-110	N/A		Part of the retention left when stand 31 was harvested in 2016. Original
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand 31 comments: Large diameter, wide-crowned red oak with relatively small diameter northern hardwoods filled in between. Occasional larger
	Red Maple	2	Pole/Sap/Log	7		Sug	gar Maple	Low	10 - 20 feet	Sapling	basswood saw clumps, but generally most of the hardwood component is
	Basswood	18	Log/Pole	10			Beech	Low	< 5 feet	Sapling	10" DBH and under. First age: 14" DBH oak, 79 years (SI 68). Second
	White Ash	7	Pole/Log	8	66	Iro	onwood	Medium	5 - 10 feet	Sapling	age: 7" DBH hard maple, 66 years (SI 50). Third age: 8" DBH white ash, 56 years. The stand's NE has less of the northern hardwoods, and more
	Beech	3	Pole/Sap/Log	9 6							oak (log-pole sized) and aspen. The understory has little in the way of
	Red Oak	35	Log/XLog	14	89						shrubs.
	Paper Birch	3	Pole/Log	8							
	Bigtooth Aspen	2	Log/Pole	10							
	Sugar Maple	28	Pole/Sapling	7	76						
	Ironwood	2	Pole/Sapling	5							
75	4130	- Aspen	S	Sawtimb	er Well	1.3	85	81-110	N/A		Retention island left when stand 38 was harvested in 2016. Original stand
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	38 comments: Overmature BTA with quality NRO mixed in. RM is suppressed-
	Quaking Aspen	2	Pole/Log	8		W	hite Pine	Low	Variable	Sapling	intermediate in the canopy. There is an older xlog oak component, very
	Red Maple	8	Pole/Log	7		Hazelr	nut (Beaked)	Low	< 5 feet	Tall Shrub	
	Red Oak	2	XLog	24		Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub	NE is sparser, with cull RM stump clumps, more quaking aspen, and U/G inclusions. There are a few WP, RP & white oak saw, and WP
	Red Oak	10	Log/Pole	11		Servicebe	erry (Juneberry) Low	Variable	Tall Shrub	saplings/poles localized around the seed source. BTA SI 72
	Bigtooth Aspen	78	Log/Pole	10	85			,	+	,	
76	4199 - Other Mixe	d Upland D	eciduous	Sapling	Poor	23.0	6	Immature	N/A		Forest access route runs down the valley with steep to rolling terrain on
	Canopy Species	% Cover	Size Class	DBH	l Age						either side.
	Red Oak	4	Log/XLog	16	86						Part of mature O-RM stand 49 was final harvested with reserves in 2016
	Bigtooth Aspen	10	Sapling	1	6						(#605-14), cutting stems 2"+ DBH except pine, beech, ash, white oak,
	Red Pine	1	XLog/Log	22							green-marked trees and island retention The beech & ash were left for
	Red Oak	40	Sapling	1	6						future snags. Regen passed to M.O. at time of sale closing in 2019.
	Beech	5	Pole/Sap/Log	1 8							

1 17

Compartment: 268
Year of Entry: 2024

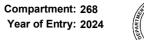
Stand	I Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age B	A Range	Managed 9	Site	General Comments
77	4131 - /	Aspen, Oak	Sa	awtimb	er Well	1.6	81	81-110	N/A		Part of the retention left when stand 44 was harvested in 2016. Original
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	nopy Species	Density	Avg. Height	Size	stand 44 comments: Comparable coverage in aspen and oak, swapping dominance across the
	Red Maple	6	Pole	6		Servicebe	rry (Juneberry)	Low	Variable	Tall Shrub	stand, with an intermediate-suppressed mixed hardwoods component. Th
	Paper Birch	2	Pole	6		Iro	nwood	Medium	Variable	Sapling	hardwoods are mostly red and sugar maple, with small amounts of paper
	Red Oak	40	Log/Pole	12							birch, beech, white ash & basswood. There is a sub-acre pocket of RP saw along the two-track. The birch is dying out. The oak is mostly log-pc
	Bigtooth Aspen	45	Log/Pole	10	81						in size, but there are also scattered xlog specimens. BTA SI 57
	Sugar Maple	3	Pole	7							• •
	Beech	2	Pole/Sapling	6							
	Red Pine	2	Log	16							
78	4123 -	Red Oak	Sa	awtimb	er Well	1.6	85	81-110	N/A		NW
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	nopy Species	Density	Avg. Height	Size	NW peninsula harvested in 2016, split off as stand 76. Original stand 49 comments from 2012: On rolling to steep terrain. Most of the stand
	Bigtooth Aspen	13	Log/Pole	10		Iro	nwood	Low	Variable	Sapling	occupies the east aspect of a 100-foot tall ridge, with that sideslope
	Paper Birch	1	Pole	7		Servicebe	rry (Juneberry)	Low	Variable	Tall Shrub	dissected by numerous valleys. The cover is predominantly NRO, with
	Red Pine	1	XLog/Log	22		Wito	ch Hazel	Low	5 - 10 feet	Tall Shrub	suppressed-intermediate RM, poor quality mixed hardwoods, and pocket of BTA. There are widely-scattered RP & white oak across the stand, an
	Red Maple	8	Pole/Sapling	6							small amounts of white ash, basswood & beech (mostly in the stand's NV
	Sugar Maple	2	Pole	8							on slightly better ground). The oak is heavy to large-pole/small-saw stem
	Red Oak	75	Log/Pole	10	85						most of them 9-11" DBH with shallow, compact crowns (8-10' diam). NR SI 55.
79	4199 - Other Mixe	ed Upland D	eciduous Sa		er Well	2.8	79	111-140	N/A		Retention island left when stand 48 was harvested in 2016. Original stand 48 comments:
	Canopy Species	% Cover	Size Class		l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Variable stand with roughly equal parts oak, aspen, and northern
	Bigtooth Aspen	30	Log	12	78	Iro	nwood	Low	Variable	Sapling	hardwoods. Only species of quality is the NRO. Very good form in the
	Sugar Maple	8	Pole/Log/Sap	7		Hazelnı	ut (Beaked)	Low	5 - 10 feet	Tall Shrub	small saw class. Xlog oak wolfy. The oak is densest to the east, aspen dominant to the west. Significant but poor-quality hardwood component
	Ironwood	2	Sapling/Pole	3		Wito	ch Hazel	Low	Variable	Tall Shrub	(RM, HM, paper birch, beech, ironwood). Paper birch dropping out of the
	Beech	4	Pole/Sap/Log	5		Maple Lea	aved Viburnum	Low	< 5 feet	Tall Shrub	stand. BTA & QA very overmature, with increasing rot & breakage. A fe
	Quaking Aspen	3	Log	12		В	Beech	Low	Variable	Sapling	basswood, RP & white ash.
	Red Oak	2	XLog	20							
	Paper Birch	6	Pole/Log	8							
	Red Oak	33	Log/Pole	13	79						
	Red Maple	12	Pole/Log/Sap	7							
80	4130	- Aspen	Sa	apling I	Лedium	13.2	17 l	mmature	N/A		Split from stand 47. Loser density aspen in patches.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	nopy Species	Density	Avg. Height	Size	Cut merch & up in 2005 under 72-062-04-01. Mostly BTA, along with RN
	Red Oak	5	Sapling	1	17	Blac	k Cherry	Low	5 - 10 feet	Tall Shrub	oak, quaking aspen and cherry. The stand's south half has dense aspen
	Quaking Aspen	5	Sapling	1	17	Servicebe	rry (Juneberry)	Low	5 - 10 feet	Tall Shrub	cover but the north half is patchier, bringing the overall canopy closure
	Bigtooth Aspen	85	Sapling	1	17						down to 50-75%. The aspen in the north half is not a well-developed, wit sub-acre pockets that had sparse sprouting and heavy browse. The oak
	Red Manle	5	Sanling	1	17						that has recruited is 8' tall and vigorous

5

Sapling

Red Maple

that has recruited is 8' tall and vigorous.





Stand	Level 4 Co		Size Density		Acres	Acres Stand Age BA Rai		Managed Site		General Comments		
81	3105 - Mixed Upland Herbaceous				Nonstocked			Unspecified	Managed O	pening	Old firing point perimeter.	
											Military Firing Point 221 opening. East side cleared & expanded in 2011. Uncleared west side has cherry & willow brush. New stand boundary not visible on the available imagery.	
82	6112 - Lowland Aspen			Sapling Medium		n 9.9	5	Immature	N/A		Floodplain aspen stand was final harvested with retention in Feb 2018 (#606-14), cutting stems 2"+ except conifers, elm, and green-marked trees. The Natural Rivers restricted cutting zone was excluded as retention.	
	Canopy Species % Cover Size Clas		Size Class			Sub-Canopy Species		s Density	Avg. Height	Size		
-	Quaking Aspen	g Aspen 80 Sapling		1	5		low spp.	Low	5 - 10 feet		The upland west edge that was intentionally included in the harvest was	
	Balsam Poplar	8	Sapling	1	5	T	ag Alder	Low	10 - 20 feet	Tall Shrub	merged back into the adjacent upland shrub stand 56.	
	Red Maple	12	Sapling	1	5	American H	merican Highbush Cranbe		5 - 10 feet	Tall Shrub		
						Bla	ck Cherry	Low	5 - 10 feet	Tall Shrub		
88	6112 - Lov	vland Aspe	n S	Sawtimber Mediur		ım 42.6	55	1-50	N/A		2022 inventory notesspecies composition of 2014?	
	Canopy Species	% Cover	Size Class	B DBH Age		Sub-Ca	Sub-Canopy Species		Avg. Height	Size	havest:overstoryunderstorysupercanopytrc cedartrc white pineground coverlow willowtrc nannyberryhigh quakingmedium	
	Paper Birch	2	Pole	7		W	illow spp.	Low	Variable	Tall Shrub	bamtrace cherrytrace hybrid oaktrace paper birchtrace	
	Quaking Aspen	aking Aspen 80 Log/Pole 11 54		Tag Alder		Low	10 - 20 feet	Tall Shrub	salix spp Portion of stand that was not harvested has consistent ground cover with the above list with the canopy consisting primarily of quaking Aspen with medium balsam poplar and trace white pis white pine paper			
Nor	thern White Cedar	n White Cedar 2 Log 12		Black Cherry		Low	Variable	Tall Shrub				
	Black Willow	3		Spiraea spp.		Low	< 5 feet	Tall Shrub				
	Balsam Poplar 14 Pole/Sap/L		Pole/Sap/Lo	g 7		American Highbush Cranb		berry Medium		Tall Shrub	alder general commentation was stand her rested	
						Blackberry/Raspberry		Low	< 5 feet	Tall Shrub	2014?Follow up treatments not present during inventory 12/28/21 Stand	
					L	Qua	king Aspen	Low	Variable	Sapling	should recruit well quaking Aspen various rosacea and stump sprouting in	
											Birch and oak are heavily browsed. Recruitment of preferred dearborough species less likely. Stand drops off of high ground pri groaned primarily flattens out to wet wet soil Due to adjacency to ausable river river flood plain. Floodplain aspen stand, including riser up to the first terrace. Mostly quaking aspen with balsam poplar and scattered paper birch. On the transition ground to the uplands, there are small amounts of pine, oak and red maple, including a sketchy row of planted red pine. Along the river's edge there are small patches of willow and northern white cedar, The aspen is generally mature to overmature. As the older component continues to break up, this stand is close to dropping to 25-50 canopy closure, There is a minor immature aspen component trying to fil in the stand's opener areas. The understory has large patches of dense highbush cranberry cover, particularly in the N1/2. A walk-in fishing accessite is located along the river.	