

Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72016

Entry Year 2024

Acreage: 1,284

County Oscoda

Management Area: AuSable Outwash

Stand Examiner: Trevor Kubitskey

Legal Description:

Elmer Township. T28N R02E Sections 13, 23, 24 & 25.

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State Of Michigan.

Soil and topography:

The soils are Grayling and Graycalm sands. There is some Emmet loamy sand in section 13. The area is rolling hills to the north with a wide valley to the south. The entire Compartment consists of very well-drained to excessively-drained upland soils.

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

Ownership is about 50% state and private in sections 13 & 24, with the majority of state ownership in sections 23 & 25. There has been no new developments within the compartment. Land use within the compartment is mostly recreational use, but there are scattered active gas well locations throughout the compartment.

Unique Natural Features:

The Pine Barrens Frost Pocket is in the adjacent compartment to the south.

Archeological, Historical, and Cultural Features:

Evidence of historical occupation is found within the Compartment.

Special Management Designations or Considerations:

The Pine Barrens Frost Pocket borders the compartment to the south.

Watershed and Fisheries Considerations:

There are no established river systems or creeks within the compartment.

Wildlife Habitat Considerations:

Despite no managed wildlife openings within the compartment, the mixture of young aspen, mature oak and various beneficial wildlife shrubs provide good cover as well as good browsing opportunities for game and non-game species. Deer, Turkey and Grouse are the most prevalent game species within the compartment.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest known active sand/gravel pits are more than three miles to the southeast and east. There appears to be good potential for sand & gravel within the compartment, but surface mining could be inhibited by oil & gas infrastructure. The compartment is within the Antrim Shale gas play, and the entire area is within Antrim unitized production areas. All State-owned mineral rights in the compartment are currently leased and held by production. It is unlikely that any additional Antrim wells will be drilled in the area in the near future. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Mt. Tom Road, Hill Road, Oak Lake Road, and Penn Road are good county roads that provide general access to the compartment. Once within the compartment, there is a large, well established network of forest roads that traverse throughout the compartment.

Survey Needs:

Roughly half of the compartment has been surveyed and has established and accepted corners. The remaining survey needs have been documented and may be resolved through survey requests. There is a need for further surveying in the SW 1/4 of Section 13.

Recreational Facilities and Opportunities:

This compartment provides a diverse range of recreational opportunities from ORV riding to upland bird hunting. The Hunt Creek Motorcycle Trail, Mio ORV Trail/Route and Snowmobile Trail LP 4_9 traverse throughout the compartment. With good access into the compartment and having a diverse range of forest cover types, it provides good habitat for a variety of game and non-game species.

Fire Protection:

There are very few high volatile cover types within the compartment. Jack Pine makes up a very small component, with deciduous species such as aspen, oak and hardwoods dominating. If there is a need for fire protection, the well established road system within the compartment will provide for a quick response and good access.

Additional Compartment Information:

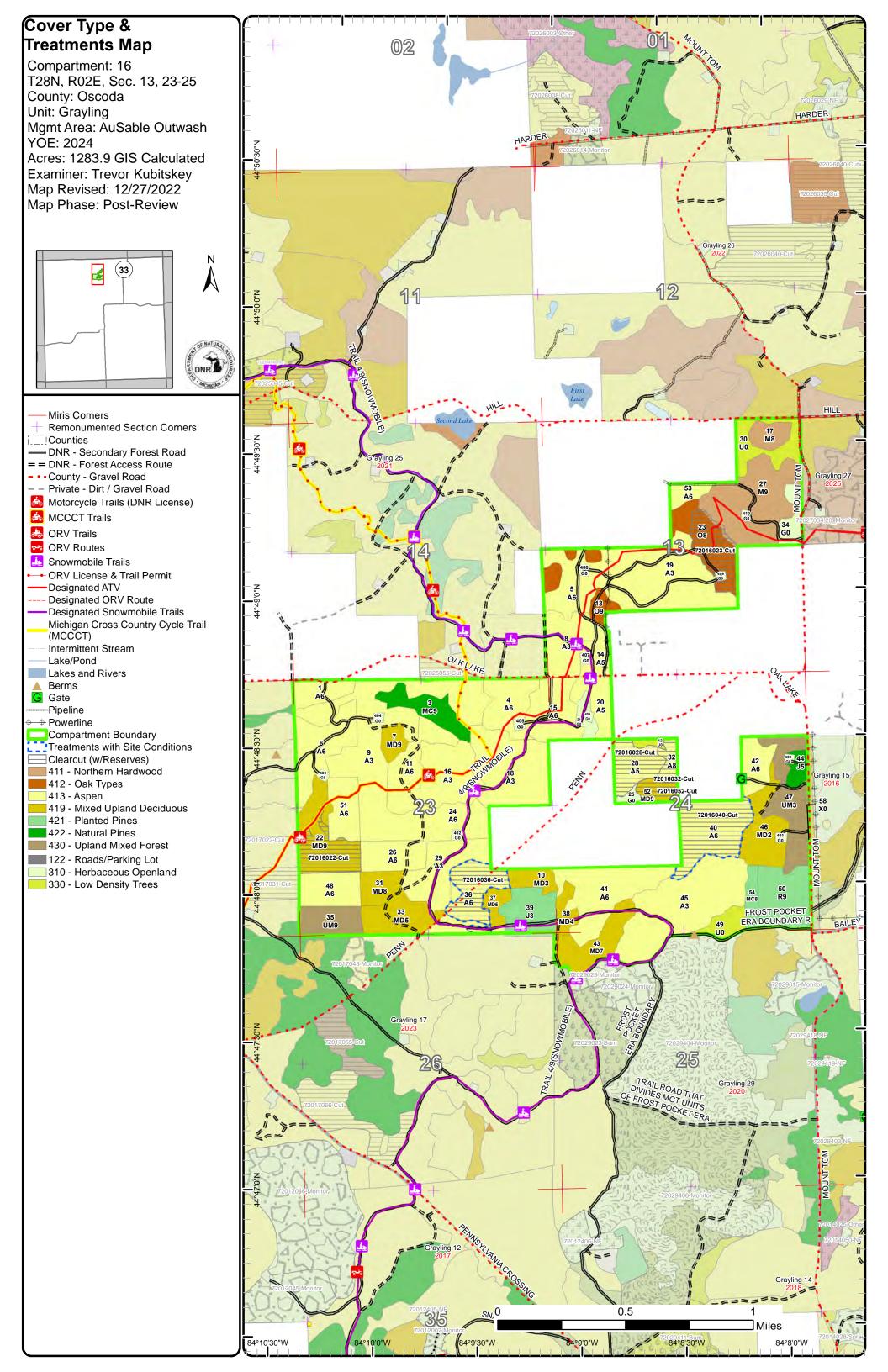
None.

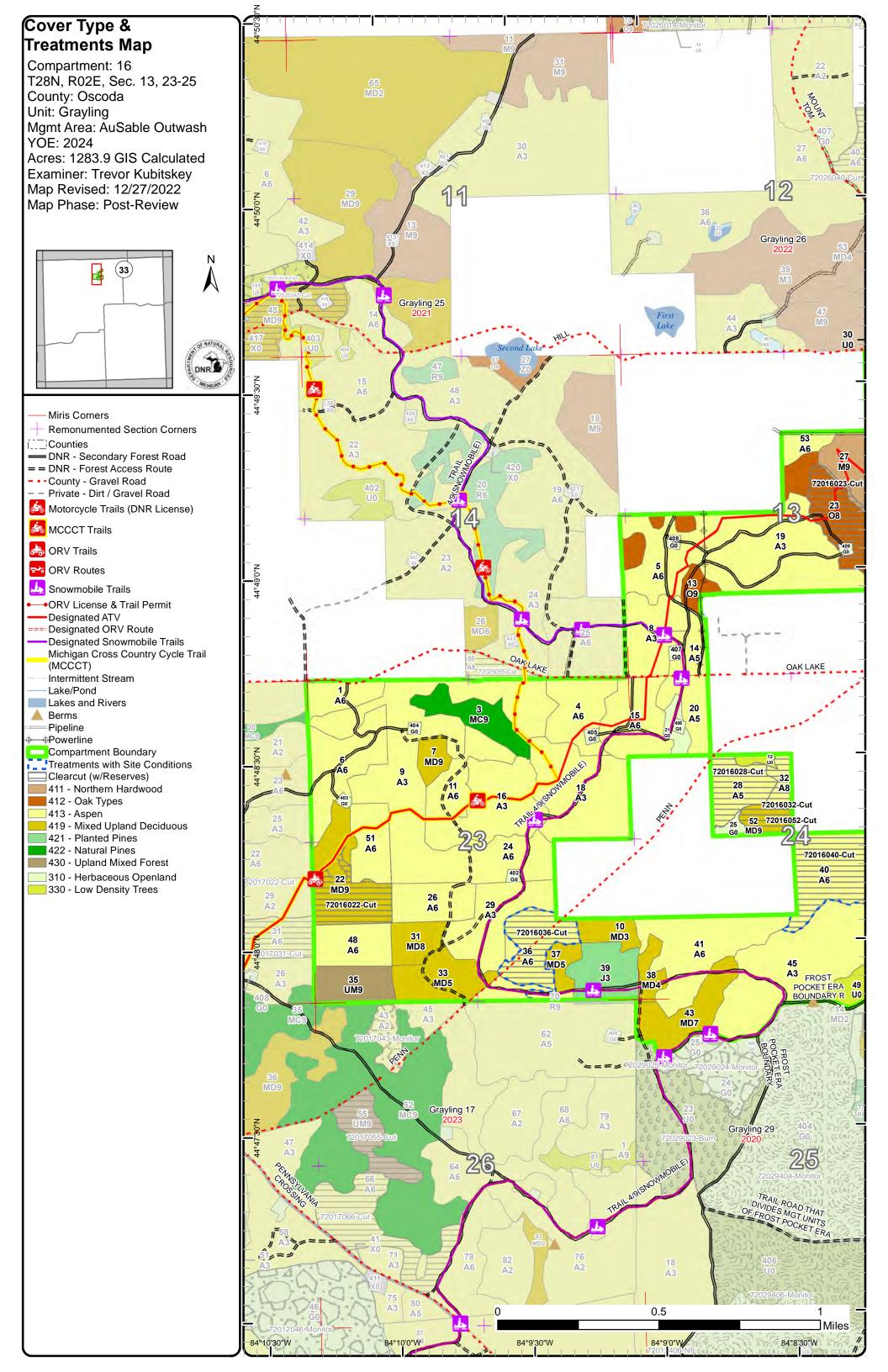
The following reports from the Inventory are attached:

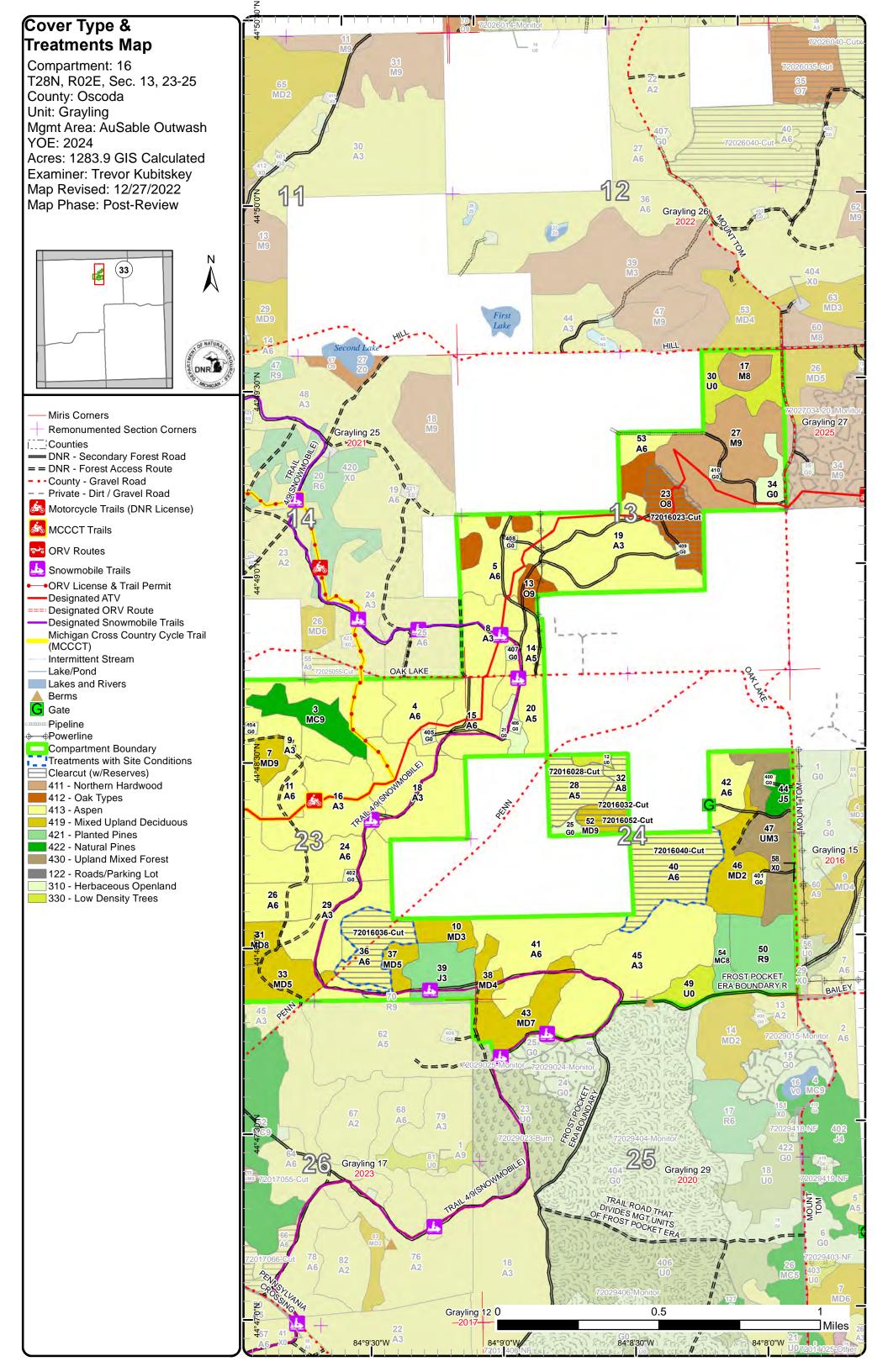
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

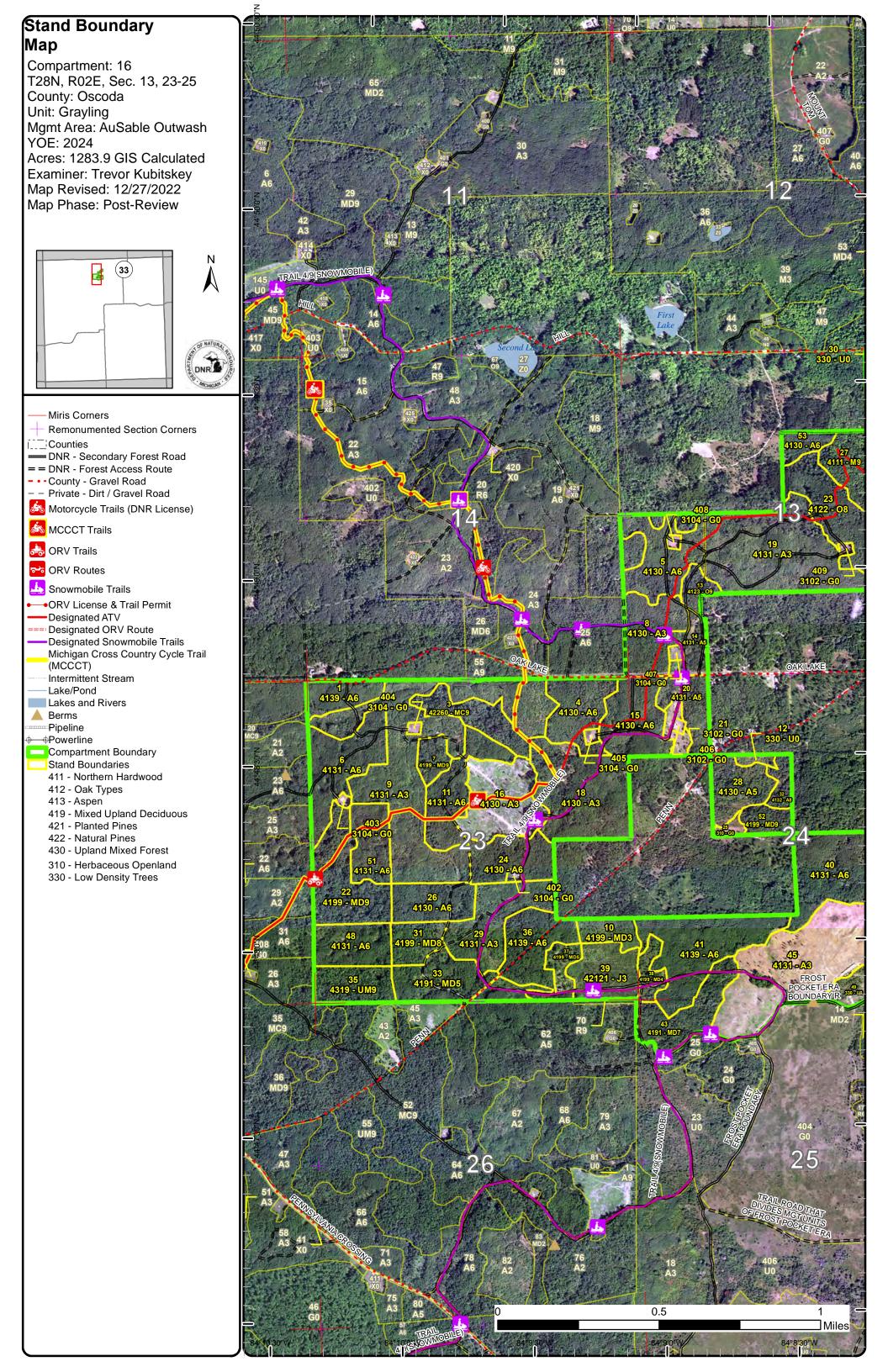
The following information is displayed, where pertinent, on the attached compartment maps:

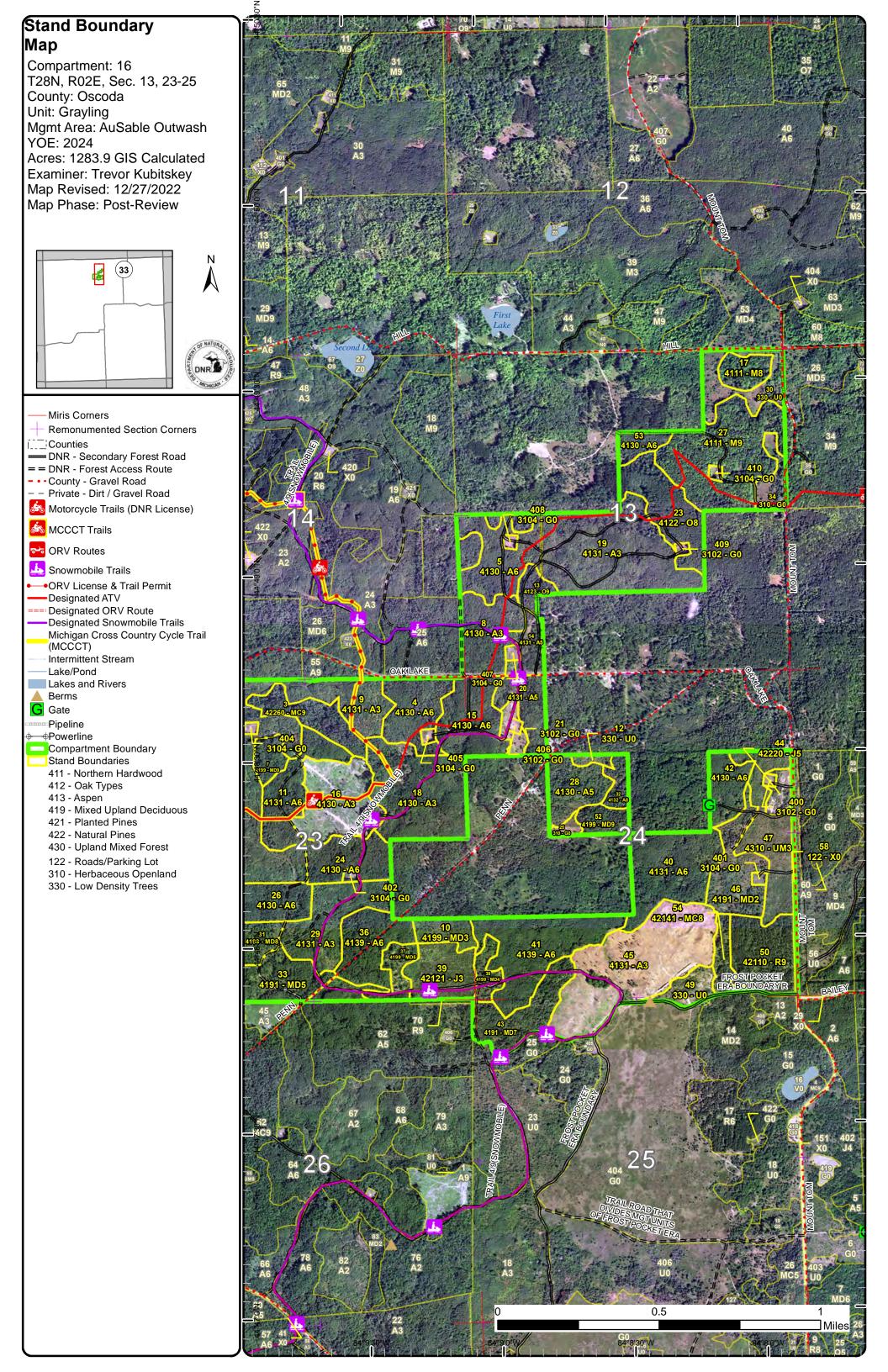
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

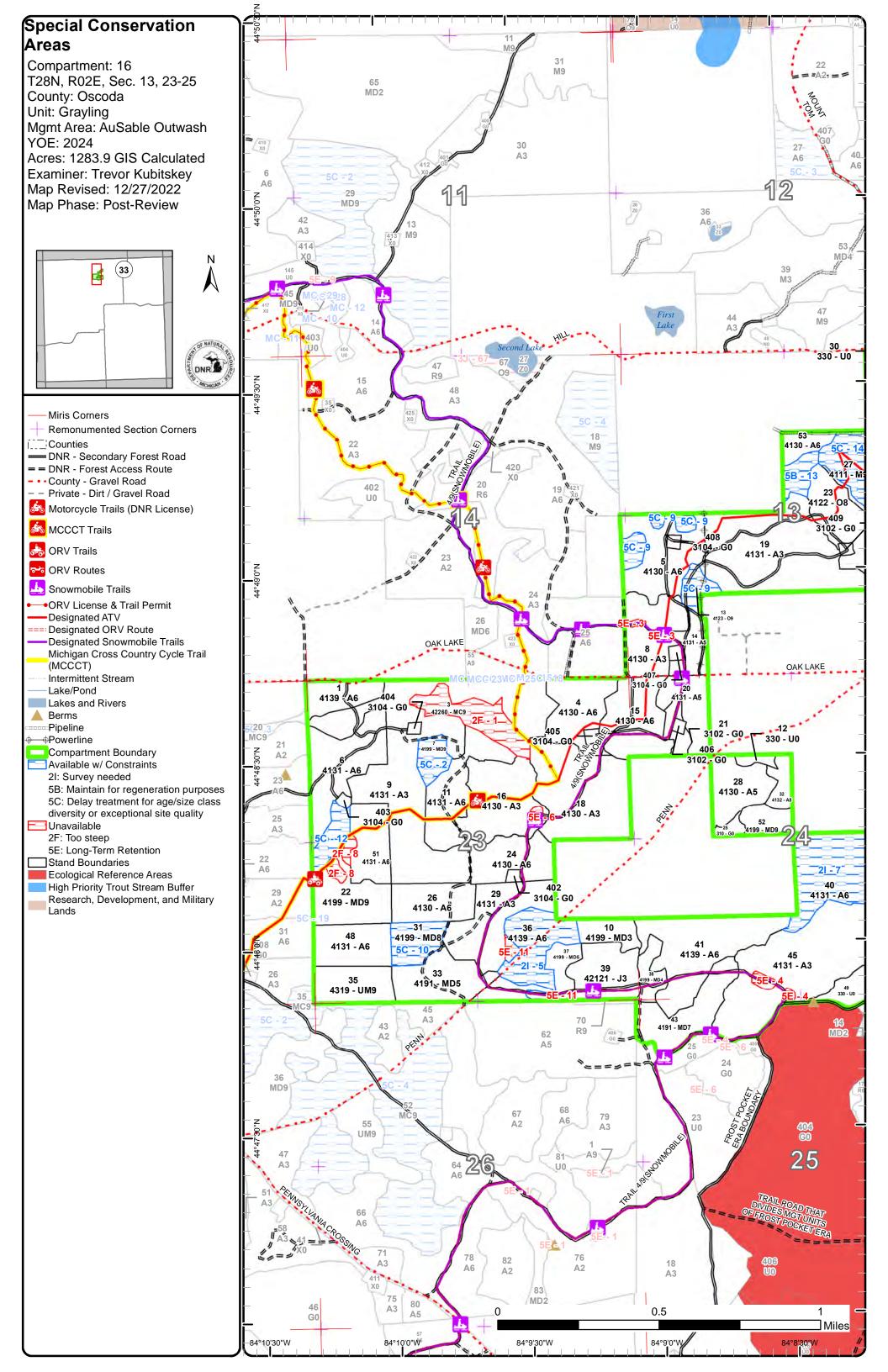


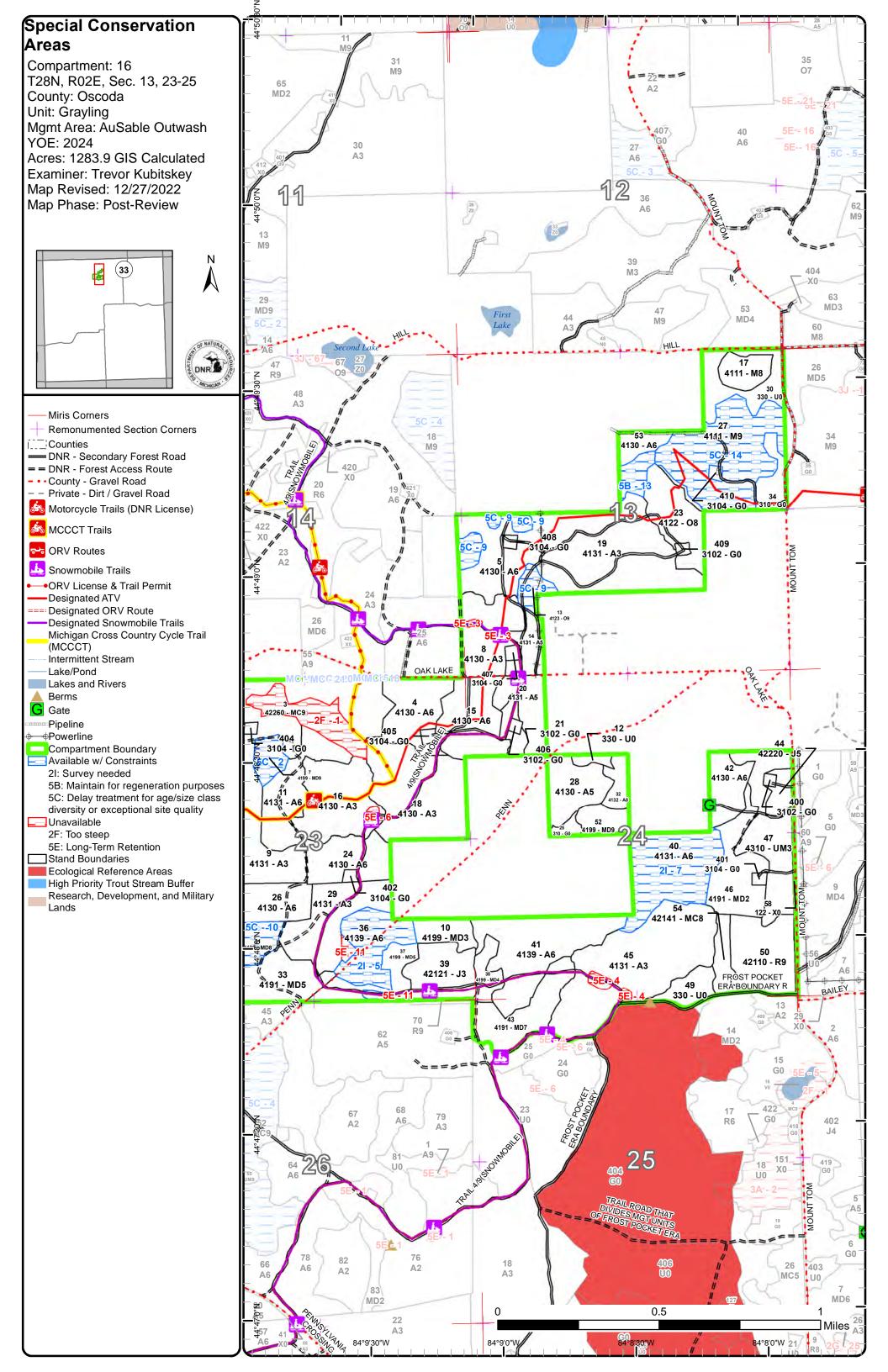












Grayling Mgt. Unit

Compartment 16 Year of Entry 2024

Trevor Kubitskey: Examiner



Age Class

	Į de la seconda		§ / §	\$ \$	P K	3 / 6		% } /&		R / 8		3 /2	70,	& /&			B. J.	S See	LOS LOS
Aspen	0	135	139	186	260	28	59	0	7	0	0	0	0	0	0	0	0	0	813
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Jack Pine	0	0	22	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	28
Low-Density Trees	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	0	0	36	15	24	25	0	0	0	64	0	0	0	0	0	0	0	0	163
Natural Mixed Pines	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0	68
Oak	0	0	0	0	0	0	0	0	0	14	29	0	0	0	0	0	0	0	43
Planted Mixed Pines	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Red Pine	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	29
Upland Mixed Forest	0	0	33	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	51
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	63	135	230	201	284	53	65	38	44	78	97	0	0	0	0	0	0	0	1285



Report 2 – Treatment Summary

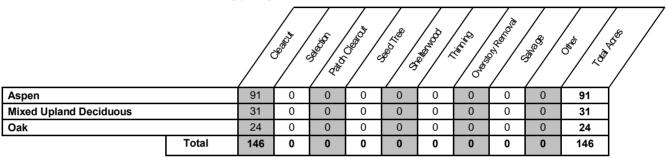
Grayling Mgt. Unit Year of Entry: 2024

Acres of Harvest

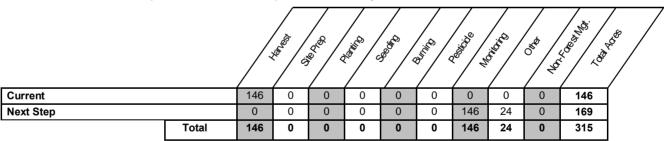
Compartment 16
Total Compartment Acres: 1,284

Commercial Harvest - 81 Harvests with Site Condition - 65 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method





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

Approved Treatments:

S

t а

n

d

22 72016022-Cut 22.6 4199 - Other Mixed Sawtimber 88 141-Harvest Clearcut with 4191 - Mixed Even-Aged No Upland Deciduous Well 170 Retention Upland Deciduous with Conifer

Final harvest all trees 2" DBH and up. 3-5% retention focusing on larger diameter pines or large crowned Oaks. Two large/steep depressions Prescription have been excluded from the treatment area. Exclude any other kettle holes from the treatment area. These areas may be utilized as retention if Specs: deemed sufficient during sale prep.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments Acceptable

Regen:

Any combination of mixed deciduous species such as oak, red maple, aspen, birch, cherry that meet minimum stocking criteria. Expect some areas to have overall lower stocking levels. If regen levels are not desired, may have to try to expand clone from adjacent aspen stands.

Other Protect all legacy trees. Add rec trail protection specs and oak wilt specs. Run red line accordingly to accommodate equipment operability. Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

72016023-Cut 23.6 4122 - Oak, Pine Sawtimber 92 111-Harvest Clearcut with 4191 - Mixed Even-Aged No Medium Retention Upland 140 Deciduous with Conifer

Prescription Final harvest all trees 2" and up. 5-10% retention focusing around healthy oaks and mixed pine and/or pockets of advanced pine regen. Protect as much non-merchantable pine as possible during harvest operations. Run red line into stand 27 to incorporate some hardwood into the treatment. Treatment has already been adjusted to excluded the NW portion of the stand as it should be managed with the adjacent aspen.

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

Treatments:

Regen:

Specs:

Acceptable Stand will regenerate towards a MD. Accept any combination of Aspen ,red/sugar maple, basswood, birch, cherry, and oak that meet minimum stocking criteria. Accept any amount of advanced or new red/white pine.

Other Add Oak Wilt specs, Rec trail protection specs into sale.

Comment:

Use a different color scheme when setting up sale There is old paint from previous sale prep and it was never cut. Some topography so run red line accordingly to accommodate equipment operability

Site Condition:

Proposed Start Date: 10/1 /2023

81-110 72016028-Cut 19.2 4130 - Aspen Poletimber 51 Harvest Clearcut with 4133 - Aspen, Even-Aged No Retention Mixed Pine Medium

Final Harvest all trees 2" DBH and up. Minimum Retention. Leave all Red and White Pine. Place retention around large Oaks in the south. Add **Prescription** drumming log and wildlife shrub spec. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments: Acceptable

Any combination of aspen, mixed deciduous and mixed pines that meet minimum stocking criteria. Expect some areas to have lower stocking

Regen: and that is OK.

Other Based on corner location, there is legal access to this parcel. A road will have to be built into this stand from Penn Rd.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

Treatments:

Acceptable Any component of aspen, mixed deciduous and mixed pine that meet minimum stocking criteria. Expect some areas of lower stocking and that is

Regen: OK

Other Legal access from Penn Rd.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

36 72016036-Cut 25.4 4139 - Aspen, Mixed Poletimber 49 111- Harvest Clearcut with 413 - Aspen Even-Aged No Deciduous Well 140 Retention

Prescription Final harvest all trees 2" DBH and up, standard retention. Do NOT cut White Pine. Retention has already been identified in the west and south

<u>Specs:</u> portions of the treatment.

<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with a minor component of mixed deciduous and pine.

Regen:

Other Add snowmobile trail protection specs into sale along with Wildlife shrub and drumming log spec.

Comment:

<u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2023

40 72016040-Cut 39.8 4131 - Aspen, Oak Poletimber 50 141- Harvest Clearcut with 4131 - Aspen, Even-Aged No Well 170 Retention Oak

<u>Prescription</u> Final harvest 2" DBH and up. Standard retention. Focus retention around large healthy crowned Oak and/or areas of greater Oak establishment. Specs:

Do not cut any pine. Add Oak wilt specs, drumming log and wildlife shrub specs into sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with a component of Oak. Other mixed deciduous and mixed conifers are acceptable too. Due to composition and stocking in the stand,

Regen: some areas may be less stocked and that is OK.

Other Survey corner needed in the NE and SW corner.

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023

52 72016052-Cut 8.5 4199 - Other Mixed Sawtimber 80 111- Harvest Clearcut with 4139 - Aspen, Even-Aged No Upland Deciduous Well 140 Retention Mixed Deciduous

<u>Prescription</u> Final harvest 2" DBH and up. Leave a single island retention to protect the white pine and oak found within the center of the stand. This retention

Specs: island may not exceed 5%.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with a minor component of Oak, Red maple, birch, cherry and pine. Expect areas of lower stocking of oak.

Regen:

Other All corners have been established and have been found.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

S t		Grayling	Mgt. Unit		Repor	t3	Treatments		Compartme Year of Entr		OF NATURAL PROBLEMS OF NAT
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Total Treatment Acreage Proposed: 145.8

Compartment: 16

Grayling Mgt. Unit

Trevor Kubitskey: Examiner Year of Entry: 2024

Availa	ability for	Managemer	nt						
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Cond	dition	S
Acres	Available	With Condition	Not Available		21	5B	5C	2F	5E
814	742	65	7	Aspen	65		0		7
29	29	0	0	Herbaceous Openland					
28	28	0	0	Jack Pine					
31	31	0	0	Low-Density Trees					
163	131	29	4	Mixed Upland Deciduous			29	4	
19	0	0	19	Natural Mixed Pines				19	
68	11	57	0	Northern Hardwood			57		
43	23	21	0	Oak		7	14		
9	9	0	0	Planted Mixed Pines					
29	29	0	0	Red Pine					
51	51	0	0	Upland Mixed Forest					
3	3	0	0	Urban					
1,286	1,085	171	29	Total Forested Acres	65	7	99	22	7
<u>-</u>	84%	13%	2%	Relative Percent	·				-

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2F: Too steep	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Steep slopes.						
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Hold stand until adj	acent aspen is ready. This sta	and provi	des good species diversit	y, mast and vertical structu	ure that is surrounded by y	oung aspen.
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	comments: ong Term Retenti	on for Frost Pocket Aspen/Oak	Sale				
5	Available	2I: Survey needed	25	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Survey Needed to	establish corner in NE part of tr	eatme	nt.			
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	comments: Retention Island fo	or Stand 16. Part of Frost Pocke	et Aspe	en/Oak Sale.			
7	Available	2I: Survey needed	40	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
	comments: lortheast and sou	thwest corner needs to be estab	olished	l. Possible Oak wilt found in s	southwest.		
Ν		thwest corner needs to be estab	olished 4	I. Possible Oak wilt found in s Unspecified	southwest. Unspecified	Unspecified	Unspecified
8 C	Unavailable		4	Unspecified	Unspecified	Unspecified	Unspecified
8 C S	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified Unspecified	Unspecified Unspecified
8 C S	Unavailable Comments: Steep kettle holes/	2F: Too steep depressions. Operations would 5C: Delay treatment for age/size class diversity or	4 be ver	Unspecified ry difficult within these areas.	Unspecified	·	·
8 C S	Unavailable Comments: Steep kettle holes/	2F: Too steep depressions. Operations would 5C: Delay treatment for age/size class diversity or	4 be ver	Unspecified ry difficult within these areas.	Unspecified	·	

Report 4 – Site Conditions

Compartment: 16

Grayling Mgt. Unit

Trevor Kubitskey : Examiner Year of Entry: 2024

r stand 36. ble 5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unapposition
age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Uneposified
				опоросос	Unspecified
rtion of stand 22. Heavier pine compo en stands to help increase clones wi	thin mix				
ble 5B: Maintain for regeneration purposes	7	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
		good percentage of sugar ma	ple saps that should be	monitored for recruitment	success. This portion
ble 5C: Delay treatment for age/size class diversity or exceptional site quality	57	Unspecified	Unspecified	Unspecified	Unspecified
a k	en stands to help increase clones wilks in an area dominated by young as the standard of the second	en stands to help increase clones within mixaks in an area dominated by young aspen. DIE 5B: Maintain for 7 regeneration purposes more volume in the sub-canopy. There is a ganaged with the adjacent aspen stands. DIE 5C: Delay treatment for 37 age/size class diversity or exceptional site quality	en stands to help increase clones within mixed pine. Also allows to retain aks in an area dominated by young aspen. Die 5B: Maintain for 7 5C: Delay treatment for age/size class diversity or exceptional site quality more volume in the sub-canopy. There is a good percentage of sugar managed with the adjacent aspen stands. Die 5C: Delay treatment for 57 Unspecified age/size class diversity or exceptional site quality	en stands to help increase clones within mixed pine. Also allows to retain some diversity of superaks in an area dominated by young aspen. Die 5B: Maintain for 7 5C: Delay treatment for unspecified age/size class diversity or exceptional site quality more volume in the sub-canopy. There is a good percentage of sugar maple saps that should be anaged with the adjacent aspen stands. Die 5C: Delay treatment for 57 Unspecified Unspecified age/size class diversity or exceptional site quality	The second of the sub-canopy. There is a good percentage of sugar maple saps that should be monitored for recruitment sanaged with the adjacent aspen stands. The sub-canopy of the sub-canopy

12/27/2022 9:18:02 AM - Page 3 of 3 TONELLOM1

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: 16
Year of Entry 2024



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

ERA Ecological Ecological Reference Areas (ERAs) are high quality examples of natu Reference Areas identified as Element Occurrences (EOs) by the Michigan Natural Fea	A = Ecological Reference Area /A = High Conservation Value Area A = Special Conservation Area
context of their natural community classification system. Element Occurrences (EOS) by the Michigan Natural Peacontext of their natural community classification system. Element Occurrences (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) threatened (2), or rare (3) serve as an initial base of ERAs. They may the State. The system is comprised of individual or associations of na managed for restoration and maintenance of natural ecological process submit recommendations for lands as ERAs using the DNR Conserva	tures Inventory (MNFI) within the urrences with viability ranks of A anking of endangered (1), be located upon any ownership in tural community types that are sees and values. The public may



											Tear of Entry. 2024
Stand	Level 4 Co	over Type	S	ize De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
1	4139 - Aspen,	Mixed Dec	ciduous Po	oletimb	er Well	13.7	31	51-80	N/A		Thick aspen stand that is just reaching merchantability. Overall pole with
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	pockets of saps and logs. Composition is variable with areas heavier to oak, cherry, pine and red maple. Bigtooth dominates with the occasional
	Quaking Aspen	10	Pole/Sapling	5		Red	d Maple	High	5 - 10 feet	Sapling	clone of quaking aspen. Heavy conifer influence throughout. There is a
	Red Maple	15	Pole/Sapling	5		Blac	k Cherry	Low	5 - 10 feet	Sapling	small 1 acre mixed pine inclusion in the southwest that is on the cusp of
Bla	ck/Red (Hybrid) Oak	15	Sapling/Pole/Log	g 3		Wh	ite Pine	Medium	Variable	Sapling	meeting mapping standards. Larger diameter pines and oak left along Oal Lake Rd possibly for visual reasons. Stand is on a south facing aspect that
	White Pine	8	Log/Pole	12		Servicebe	rry (Juneberry)	Low	5 - 10 feet	Tall Shrub	
	Bigtooth Aspen	45	Pole/Sapling	5	31						
	Red Pine	7	Log/Pole	12							
3	42260 - Natural Pi	ne, Mixed	Deciduous Sa	awtimb	er Well	18.5	79	141-170	N/A		Nice mixed pine stand within a valley. Majority of stand is a north facing
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	slope with some very steep areas. Red pine were measured varying from 11" DBH up to 30" DBH. A few red pine are declining opening up canopy
	Quaking Aspen	20	Log/XLog	14		Red	d Maple	High	5 - 10 feet	Sapling	gaps. There isn't much development in the sub canopy besides thick red
	Bigtooth Aspen	5	Log/XLog	14		Wh	ite Pine	Trace	< 5 feet	Seeding	maple saplings and a lot of downed woody debris. Over mature aspen
	Red Pine	25	XLog/Log	22		Black/Red	l (Hybrid) Oak	Low	5 - 10 feet	Sapling	throughout. More gradual slopes in the east.
	Red Maple	5	Log/Pole	11		Hawth	orn (spp.)	Low	5 - 10 feet	Tall Shrub	
	White Pine	45	Log/Pole/XLog	12	79	Blac	k Cherry	Low	5 - 10 feet	Sapling	
4		- Aspen			er Well		38	81-110	N/A		Variable quality stand. Rolling terrain throughout which appears to influence quality and diameters. Southern portions near the gas well small poles,
	Canopy Species	% Cove	r Size Class	DBH	I Age		opy Species	Density	Avg. Height	Size	thick, brushy understory and moving into the west/north portions diameters
I	Northern Pin Oak	10	Pole/Log	8			orn (spp.)	Low	5 - 10 feet	Tall Shrub	
	Quaking Aspen	50	Pole/Log/Sap	6	38		rry (Juneberry)	Medium	10 - 20 feet	Tall Shrub	scrubby aspen, oak with a denser understory. Red maple density increase moving north. ORV Trail runs through stand.
	Bigtooth Aspen	20	Pole	7	38		d Maple	Medium	5 - 10 feet	Sapling	Thoving florati. Ofter frail fails through stand.
	Red Pine	1	Log	10			k Cherry	Medium	5 - 10 feet	Sapling	
	White Pine	4	Log/Pole	10			uckle (spp.)	Trace	< 5 feet	Tall Shrub	
	Black Cherry	5	Pole	6		Northe	rn Pin Oak	Medium	5 - 10 feet	Sapling	
	Red Maple	10	Sapling	4							
5	4130	- Aspen	Po	oletimb	er Well	29.1	38	81-110	N/A		Final harvested in 1984. Whole tree skid. Very little conifer component. Composition and quality is fairly consistent throughout with a few scattered
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	pockets of lower quality quaking aspen. Some pockets of log bigtooth
	Quaking Aspen	10	Pole	7		Suga	ar Maple	Medium	10 - 20 feet	Sapling	present.
	Red Maple	15	Pole	6		Iro	nwood	Low	5 - 10 feet	Sapling	
	Red Oak	5	Pole	6		Hawth	orn (spp.)	Low	< 5 feet	Tall Shrub	
	Bigtooth Aspen	50	Pole	7	38	Re	ed Oak	Low	5 - 10 feet	Sapling	
	White Pine	1	Pole	8		Witc	h Hazel	Low	5 - 10 feet	Tall Shrub	
	Red Pine	1	Pole	8							
	Paper Birch	8	Pole/Sapling	5							

Black Cherry

10

Pole/Sapling

6



Stand	d Level 4 Co	over Type	;	Size De	nsity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments
6	4131 - As	spen, Oak	F	Poletimb	er Well	32.5	35	81-110	N/A		Dominated by aspen. Intermixed oak, red maple and white pine. Oak
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	present in clumps and single stems. Rolling topography within. Stand looks healthy, overall pole. Nice aspen logs in the south near the gas well.
	Bigtooth Aspen	50	Pole/Log	8	35	Servicebe	rry (Juneberry) Low	5 - 10 feet	Tall Shrub	
Bla	ack/Red (Hybrid) Oak	25	Pole/Sap/Log	7		Black/Red	d (Hybrid) Oak	Medium	Variable	Sapling	
	White Pine	5	Log/Pole	12		Hawth	norn (spp.)	Low	< 5 feet	Tall Shrub	
	Red Maple	5	Pole	6		Red	d Maple	High	10 - 20 feet	Sapling	
	Quaking Aspen	15	Pole	7	35	Wh	ite Pine	Low	10 - 20 feet	Sapling	
7	4199 - Other Mixed	d Upland D	eciduous S	Sawtimb	er Well	7.5	81	111-140	N/A		Nice pocket of mature timber in between young aspen stands. Good quality
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	oak within this stand along with fairly healthy aspen and red maple. Canopy is somewhat closer to 75% due to some mortality pockets of birch and
	Paper Birch	10	Log/Pole	10		Red	d Maple	Medium	5 - 10 feet	Sapling	quaking aspen. Decent Oak establishment in sub-canopy.
	Red Oak	30	Log/XLog/Pole	e 16	81	Wh	ite Pine	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	30	Log	14		Black/Red	d (Hybrid) Oak	High	Variable	Sapling	
	White Pine	2	Log	11		Wito	ch Hazel	Low	5 - 10 feet	Tall Shrub	
	Red Maple	28	Log/Pole	11							
8	4130 -	Aspen		Sapling	Well	26.0	5	Immature	N/A		Oak Lake Rd Harvest 72-053-15. Good regen throughout. Some areas
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	have better stocking of oak. Snowmobile and motorcycle trail runs through stand. Scattered Red Pine and Oak logs left.
	Red Oak	10	Pole/Sapling	5		Blac	k Cherry	Low	< 5 feet	Sapling	3
	Red Maple	28	Sapling	1	5	Wito	h Hazel	Low	5 - 10 feet	Tall Shrub	
	Red Pine	2	Log	10				,		,	
	Bigtooth Aspen	60	Sapling	1	5						
9	4131 - A	spen, Oak		Sapling	Well	100.3	16	Immature	N/A		Stand harvested in 2006. Very large, fairly consistent aspen stand with
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	patches of pure oak intermixed in. Due to rolling terrain, there are some pockets of quaking aspen found in some depressions and valleys. The
	Paper Birch	5	Sapling	3		Red	d Maple	Low	5 - 10 feet	Sapling	northern strip contains a large south facing slope with mostly oak clumps
	Red Maple	10	Sapling	3		Black/Red	d (Hybrid) Oak	Medium	5 - 10 feet	Sapling	and some scattered. The finger that extends to the west runs through a
	Quaking Aspen	10	Sapling	3		Blac	k Cherry	Medium	5 - 10 feet	Sapling	valley and contains a larger density of conifers compared to the rest of the stand. The rest of the stand (central to the south) is rolling with thick aspen
	Bigtooth Aspen	50	Sapling/Pole	3	16	Hawth	norn (spp.)	Low	< 5 feet	Tall Shrub	throughout. Not as well stocked in the north as it is in the rest of the stand.
Bla	ack/Red (Hybrid) Oak	25	Sapling	3				-			Majority of stand is sapling size with scattered poles intermixed.
10	4199 - Other Mixed	d Upland D	eciduous	Sapling	Well	9.6	16	Immature	N/A		Harvested in 2006 with stand 39 to the south. Was originally going to be planted to jack pine but was left to naturally regenerate. Mix of deciduous
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	species with a minor conifer component. Very thick stand.
	White Pine	1	Pole	4		Quak	ing Aspen	Low	< 5 feet	Sapling	·
	Jack Pine	10	Sapling	3		Red	d Maple	Low	< 5 feet	Sapling	
	Black Cherry	8	Sapling	2	16	Hawth	norn (spp.)	Medium	< 5 feet	Tall Shrub	
	Red Pine	1	Pole	5		Blac	k Cherry	Medium	5 - 10 feet	Sapling	
	Red Maple	10	Sapling/Pole	3		Black/Red	d (Hybrid) Oak	Medium	< 5 feet	Sapling	
	Quaking Aspen	35	Sapling	3							
Bla	ack/Red (Hybrid) Oak	35	Sapling/Pole	3	16						



											S DNR
Stand	Level 4 Co	ver Type	S	ize De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
11	4131 - As	spen, Oak	P	oletimb	er Well	26.5	36	81-110	N/A		Quality increases moving north. Larger diameters found in the norther
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	portion. Aspen is variable. Oak size classes are also variable with a good density of oak saps within the 10-20 ft range in the sub-canopy. Old notes
	Bigtooth Aspen	25	Pole	7		W	hite Pine	Low	< 5 feet	Seeding	mention to let aspen fall out and let oak come up underneath. The southern
	White Pine	4	Log/XLog	16		Black/Re	d (Hybrid) Oak	Medium	10 - 20 feet	Sapling	portion is beginning to do this. Poorer quality quaking is giving way to oak.
	Red Pine	1	Log	15		Servicebe	erry (Juneberry) Medium	5 - 10 feet	Tall Shrub	
	Red Maple	20	Sapling	3		Pa	per Birch	Medium	10 - 20 feet	Sapling	
	Quaking Aspen	25	Pole	7	36	Re	ed Maple	Medium	Variable	Sapling	
Blac	ck/Red (Hybrid) Oak	20	Pole/Sap/Log	7		Hawt	thorn (spp.)	Low	< 5 feet	Tall Shrub	
	Black Cherry	5	Pole	6				·			
12	330 - Low-D	Density Tre	es	Nonsto	cked	2.6	0 ι	Jnspecified	No		Small, upland brush stand. Separated out of adjacent stand due to
						Sub-Ca	nopy Species	Density	Avg. Height	Size	composition and overall stocking. There isn't enough merchantable species within this stand to call it apart of stand 28.
						Hawt	thorn (spp.)	Low	< 5 feet	Tall Shrub	
						W	hite Pine	Low	Variable	Pole	
						Bla	ck Cherry	Medium	10 - 20 feet	Tall Shrub	
						Quaking Aspen		Medium	5 - 10 feet	Sapling	
13	4123 - F	Red Oak	S		er Well	14.3	86	111-140	N/A		Multi-polygon stand that was essentially thinned in 1984 removing all aspen, red maple, birch, and cherry. The understory composition varies from
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	polygon. The far west, and two northern portions have very little understory
	Red Oak	65	Log/Pole/XLog		86		d (Hybrid) Oak		Variable	Sapling	development besides red maple saplings and witch hazel and are
	Bigtooth Aspen	5	Pole	7		Re	ed Maple	Medium	Variable	Sapling	dominated with oak in the overstory. The southern polygon appears to have a lower site quality with poorer quality hybrid oak with more of a Mixed
Blac	ck/Red (Hybrid) Oak	20	Log/Pole/XLog	13		Ire	onwood	Low	5 - 10 feet	Sapling	deciduous cover type. This polygon also has a higher density of hawthorn
	Red Maple	10	Pole/Log	9		Hawt	thorn (spp.)	Medium	< 5 feet	Tall Shrub	and sub-canopy oak development.
						Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub	
14	4131 - As	spen, Oak	Pole		r Mediur	m 10.4	38	51-80	N/A		No records of timber sale. Appears to have been harvested around the same time as stand 5 to the north. Higher oak canopy density moving north.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Very scrubby, brushy stand appearance with variable merchantability. Oak
	Quaking Aspen	40	Pole	7	38	North	ern Pin Oak	Medium	5 - 10 feet	Sapling	and pine establishment and recruitment fairly good in areas of lower canopy
	Red Maple	5	Pole	6		Pa	per Birch	Low	10 - 20 feet	Sapling	cover. Aspen looks ok. If aspen starts to fall out, it will give way to the oak
	Jack Pine	8	Pole	6		Bla	ck Cherry	Medium	5 - 10 feet	Sapling	underneath. pole sized aspen stand. somewhat patchy. quality is fair. snowmobile trail passes through stand. do nothing, should hold for another
	Black Cherry	5	Pole	5		Hawt	thorn (spp.)	High	Variable	Tall Shrub	ten pretty easily.
	White Pine	1	Log/Pole	10		Servicebe	erry (Juneberry) Low	5 - 10 feet	Tall Shrub	
	Red Pine	1	Pole	7		Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub	
								1	i e		

Medium

Variable

Northern Pin Oak

Pole/Sap/Log

7

White Pine

40

Sapling



Stand Level 4	Cover Type	S	ze De	ensity	Acres	Stand Age B	4 Kange	Managed S	oite	General Comments
15 413	0 - Aspen	Po	letimb	er Well	28.4	38	81-110	N/A		Overall nice aspen stand. Scattered pockets of quaking aspen in lower
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	quality areas. Stand is healthy. Fairly consistent stand with majority true pole sized and pockets of logs. ORV trail and Snowmobile trail run through
Bigtooth Aspen	50	Pole/Log	9	38		rry (Juneberry)	Medium	5 - 10 feet	Tall Shrub	
Paper Birch	5	Pole	8		Red	d Maple	High	10 - 20 feet	Sapling	, , , , , , , , , , , , , , , , , , , ,
White Pine	4	Log/Pole/XLog	12		Wh	ite Pine	Low	5 - 10 feet	Sapling	
Red Maple	15	Pole	7		Black/Red	d (Hybrid) Oak	Medium	Variable	Sapling	
Red Pine	1	Log	15		Pap	er Birch	Low	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oa	k 15	Pole/Log	8		Hawth	norn (spp.)	Low	5 - 10 feet	Tall Shrub	
Quaking Aspen	10	Pole/Log	8	38						
16 413	0 - Aspen	5	Sapling	g Well	34.6	6 Ir	nmature	N/A		Harvested as part of Frost Pocket Aspen/Oak sale in 2016. Aspen
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	regenerating very well. Pockets of 'better' Oak regen. There are some scattered clones of quaking aspen. Passed regen check 11/9/21. Small
Red Maple	10	Sapling	1		Wito	ch Hazel	Low	< 5 feet	Tall Shrub	
Bigtooth Aspen	65	Sapling	1	6	Black/Red	d (Hybrid) Oak	Medium	< 5 feet	Seeding	
Black/Red (Hybrid) Oa	k 15	Sapling	1		Red	d Maple	Low	< 5 feet	Sapling	
	5	Sapling	1		Wh	ite Pine	Low	< 5 feet	Seeding	
Quaking Aspen	5	Sapility			****					
Quaking Aspen Black Cherry	4	Sapling	1	L	****		2011			

Black Cherry White Pine 4111 - S.Maple,	4 1 Hard Mast A	Sapling Log ssociation Saw	1 12 timber		m 9.9	96	81-110	N/A		Nice inclusion of hardwood. Steep terrain in the northern portion of the stand. Old homestead, pastureland appearance. Open grown sugar maple
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species	4 1 Hard Mast A % Cover	Sapling Log ssociation Saw	1 12 timber	r Mediur	m 9.9 Sub-Ca r	96 nopy Species	81-110 Density	Avg. Height	Size	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch	4 1 Hard Mast A % Cover	Sapling Log ssociation Saw Size Class Log	1 12 timber DBH		m 9.9 Sub-Car Blac	96 nopy Species k Cherry	81-110 Density Low	Avg. Height 5 - 10 feet	Size Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen	4 1 Hard Mast A % Cover 5 10	Sapling Log ssociation Saw Size Class Log Pole/Log	1 12 timber 12 8		m 9.9 Sub-Car Blac Wh	96 nopy Species k Cherry ite Pine	81-110 Density Low Low	Avg. Height 5 - 10 feet Variable	Size Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech	4 1 Hard Mast A % Cover 5 10 5	Sapling Log Ssociation Saw Size Class Log Pole/Log Log	1 12 timber 12 8 10	l Age	m 9.9 Sub-Car Blac Wh Gre	96 nopy Species k Cherry ite Pine een Ash	81-110 Density Low Low Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet	Size Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple	4 1 Hard Mast A % Cover 5 10 5 40	Sapling Log Ssociation Saw Size Class Log Pole/Log Log Log/XLog/Pole	1 12 timber 12 8 10 14		m 9.9 Sub-Car Blac Wh Gre Sug	96 nopy Species k Cherry hite Pine een Ash ar Maple	81-110 Density Low Low Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak	4 1 Hard Mast A % Cover 5 10 5 40 5	Sapling Log ssociation Saw Size Class Log Pole/Log Log Log/XLog/Pole Log	1 12 timber 12 8 10 14 10	l Age	m 9.9 Sub-Car Blac Wh Gre Sug	96 nopy Species k Cherry ite Pine een Ash	81-110 Density Low Low Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet	Size Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine	4 1 Hard Mast A % Cover 5 10 5 40 5 5	Sapling Log Ssociation Saw Size Class Log Pole/Log Log Log/XLog/Pole Log XLog	1 12 timber 12 8 10 14 10 20	l Age	m 9.9 Sub-Car Blac Wh Gre Sug	96 nopy Species k Cherry hite Pine een Ash ar Maple	81-110 Density Low Low Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak	4 1 Hard Mast A % Cover 5 10 5 40 5	Sapling Log ssociation Saw Size Class Log Pole/Log Log Log/XLog/Pole Log	1 12 timber 12 8 10 14 10	l Age	m 9.9 Sub-Car Blac Wh Gre Sug	96 nopy Species k Cherry hite Pine een Ash ar Maple	81-110 Density Low Low Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine Basswood	4 1 Hard Mast A % Cover 5 10 5 40 5 5	Sapling Log Size Class Log Pole/Log Log Log/XLog/Pole Log XLog Log/XLog Log/XLog	1 12 timber 12 8 10 14 10 20	l Age	m 9.9 Sub-Car Blac Wh Gre Sug	96 nopy Species lik Cherry iite Pine een Ash ar Maple	81-110 Density Low Low Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple regeneration underneath. Harvested in 1994. Very hilly with ridges, valleys and some kettle holes.
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine Basswood	4 1 Hard Mast A % Cover 5 10 5 40 5 5 30	Sapling Log Size Class Log Pole/Log Log Log/XLog/Pole Log XLog Log/XLog	1 12 timber 12 8 10 14 10 20 15 Sapling	96	m 9.9 Sub-Car Blace Wh Gre Sug:	96 nopy Species lik Cherry iite Pine een Ash ar Maple	81-110 Density Low Low Medium Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet 5 - 10 feet	Size Sapling Sapling Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple regeneration underneath. Harvested in 1994. Very hilly with ridges, valleys and some kettle holes. Very diverse stand. Better quality, larger diameters on the ridges, with mos
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine Basswood 18 413	4 1 Hard Mast A % Cover 5 10 5 40 5 5 30	Sapling Log Size Class Log Pole/Log Log Log/XLog/Pole Log XLog Log/XLog	1 12 timber 12 8 10 14 10 20 15 Sapling	96 Swell	m 9.9 Sub-Car Blac Wh Gre Sug. Iro 51.0 Sub-Car	96 nopy Species k Cherry lite Pine een Ash ar Maple nwood	81-110 Density Low Low Medium Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet 5 - 10 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple regeneration underneath. Harvested in 1994. Very hilly with ridges, valleys and some kettle holes. Very diverse stand. Better quality, larger diameters on the ridges, with mos quaking aspen found in the valleys and some slopes. Scattered Red Pine Logs. Does contain a small scramble area in the western portion along the
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine Basswood 18 413 Canopy Species	4 1 Hard Mast A % Cover 5 10 5 40 5 5 30 0 - Aspen % Cover	Sapling Log Ssociation Saw Size Class Log Pole/Log Log Log/XLog/Pole Log XLog Log/XLog Size Class Pole/Sapling Log/Pole/XLog	1 12 DBH 12 8 10 14 10 20 15 Sapling	96 Swell	m 9.9 Sub-Car Blac Wh Gre Sug. Iro 51.0 Sub-Car	96 nopy Species k Cherry hite Pine een Ash ar Maple howood	81-110 Density Low Low Medium Medium Medium Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet 5 - 10 feet N/A Avg. Height	Size Sapling Sapling Sapling Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple regeneration underneath. Harvested in 1994. Very hilly with ridges, valleys and some kettle holes. Very diverse stand. Better quality, larger diameters on the ridges, with mos quaking aspen found in the valleys and some slopes. Scattered Red Pine Logs. Does contain a small scramble area in the western portion along the ORV trail. Thick understory. Nice healthy stand. Higher conifer component
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine Basswood 18 413 Canopy Species Quaking Aspen	4 1 Hard Mast A % Cover 5 10 5 40 5 5 30 0 - Aspen % Cover 10	Sapling Log Ssociation Saw Size Class Log Pole/Log Log Log/XLog/Pole Log XLog Log/XLog Size Class Pole/Sapling	1 12 DBH 12 8 10 14 10 20 15 Sapling	96 Swell	m 9.9 Sub-Car Blac Wh Gre Sug. Iro 51.0 Sub-Car Wh Blac	96 nopy Species k Cherry iite Pine een Ash ar Maple inwood 28 Ir	81-110 Density Low Low Medium Medium Medium Medium Medium Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet 5 - 10 feet N/A Avg. Height Variable	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple regeneration underneath. Harvested in 1994. Very hilly with ridges, valleys and some kettle holes. Very diverse stand. Better quality, larger diameters on the ridges, with mos quaking aspen found in the valleys and some slopes. Scattered Red Pine Logs. Does contain a small scramble area in the western portion along the
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine Basswood 18 413 Canopy Species Quaking Aspen Red Pine	4 1 Hard Mast A **Cover* 5 10 5 40 5 5 30 0 - Aspen **Cover* 10 2	Sapling Log Ssociation Saw Size Class Log Pole/Log Log Log/XLog/Pole Log XLog Log/XLog Size Class Pole/Sapling Log/Pole/XLog	1 12	96 Swell	m 9.9 Sub-Car Blac Wh Gre Sug: Iro 51.0 Sub-Car Wh Blac Servicebe	96 nopy Species k Cherry iite Pine een Ash ar Maple inwood 28 Ir nopy Species iite Pine k Cherry	81-110 Density Low Low Medium Medium Medium Medium Medium Medium Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet 5 - 10 feet N/A Avg. Height Variable 5 - 10 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple regeneration underneath. Harvested in 1994. Very hilly with ridges, valleys and some kettle holes. Very diverse stand. Better quality, larger diameters on the ridges, with mos quaking aspen found in the valleys and some slopes. Scattered Red Pine Logs. Does contain a small scramble area in the western portion along the ORV trail. Thick understory. Nice healthy stand. Higher conifer component in NW. Majority of stand is just reaching merchantability, some scattered pockets of true poles.
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine Basswood 18 413 Canopy Species Quaking Aspen Red Pine Black Cherry	4 1 Hard Mast A **Cover* 5 10 5 40 5 5 30 0 - Aspen **Cover* 10 2 5	Sapling Log Size Class Log Pole/Log Log Log/XLog/Pole Log XLog Size Class Pole/Sapling Log/Pole/XLog Sapling/Pole	1 12	96 Swell	m 9.9 Sub-Car Blace Wh Gree Sug: Iro 51.0 Sub-Car Wh Blace Servicebe Hawth	96 nopy Species k Cherry iite Pine een Ash ar Maple inwood 28 Ir nopy Species iite Pine ek Cherry rry (Juneberry)	81-110 Density Low Low Medium Medium Medium Medium Density Low High Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet 5 - 10 feet N/A Avg. Height Variable 5 - 10 feet 5 - 10 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple regeneration underneath. Harvested in 1994. Very hilly with ridges, valleys and some kettle holes. Very diverse stand. Better quality, larger diameters on the ridges, with mos quaking aspen found in the valleys and some slopes. Scattered Red Pine Logs. Does contain a small scramble area in the western portion along the ORV trail. Thick understory. Nice healthy stand. Higher conifer component in NW. Majority of stand is just reaching merchantability, some scattered pockets of true poles.
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine Basswood 18 413 Canopy Species Quaking Aspen Red Pine Black Cherry American Elm	4 1 Hard Mast A **Cover* 5 10 5 40 5 5 30 0 - Aspen **Cover* 10 2 5 1 1 10	Sapling Log Size Class Log Pole/Log Log Log/XLog/Pole Log XLog Log/XLog Size Class Pole/Sapling Log/Pole/XLog Sapling/Pole Pole	1 12	96 Swell	m 9.9 Sub-Car Blace Wh Gree Sug: Iro 51.0 Sub-Car Wh Blace Servicebe Hawth	96 nopy Species k Cherry hite Pine heen Ash har Maple hinwood 28 In hopy Species hite Pine k Cherry horn (spp.)	81-110 Density Low Low Medium Medium Medium Medium Medium Medium Medium Medium Medium Medium Medium Medium Medium Medium Medium	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet 5 - 10 feet N/A Avg. Height Variable 5 - 10 feet 5 - 10 feet < 5 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple regeneration underneath. Harvested in 1994. Very hilly with ridges, valleys and some kettle holes. Very diverse stand. Better quality, larger diameters on the ridges, with mos quaking aspen found in the valleys and some slopes. Scattered Red Pine Logs. Does contain a small scramble area in the western portion along the ORV trail. Thick understory. Nice healthy stand. Higher conifer component in NW. Majority of stand is just reaching merchantability, some scattered pockets of true poles.
Black Cherry White Pine 17 4111 - S.Maple, Canopy Species Paper Birch Bigtooth Aspen Beech Sugar Maple Red Oak White Pine Basswood 18 413 Canopy Species Quaking Aspen Red Pine Black Cherry American Elm Red Maple	4 1 Hard Mast A **Cover* 5 10 5 40 5 5 30 0 - Aspen **Cover* 10 2 5 1 1 10	Sapling Log Size Class Log Pole/Log Log Log/XLog/Pole Log XLog Size Class Pole/Sapling Log/Pole/XLog Sapling/Pole Pole Sapling/Pole	1 12	96 Swell	m 9.9 Sub-Car Blace Wh Gree Sug: Iro 51.0 Sub-Car Wh Blace Servicebe Hawth	96 nopy Species k Cherry lite Pine leen Ash lar Maple lanwood 28 Ir nopy Species lite Pine lk Cherry lite Pine	81-110 Density Low Low Medium Medium Medium Medium Medium Medium Trace	Avg. Height 5 - 10 feet Variable 10 - 20 feet 10 - 20 feet 5 - 10 feet N/A Avg. Height Variable 5 - 10 feet 5 - 10 feet < 5 feet < 5 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub Sapling	stand. Old homestead, pastureland appearance. Open grown sugar maple throughout with overmature basswood. Does have nice sugar maple regeneration underneath. Harvested in 1994. Very hilly with ridges, valleys and some kettle holes. Very diverse stand. Better quality, larger diameters on the ridges, with mos quaking aspen found in the valleys and some slopes. Scattered Red Pine Logs. Does contain a small scramble area in the western portion along the ORV trail. Thick understory. Nice healthy stand. Higher conifer component in NW. Majority of stand is just reaching merchantability, some scattered pockets of true poles.



Stand	Level 4 Co	ver Type	s	ize De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
19	4131 - As	spen, Oak	5	Sapling	Well	67.1	28	1-50	N/A		Cut in 1994. Old imagery (1998 DOQ) shows sale boundary very well.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stand has pockets of poles, but overall walking through, it isn't consistently a pole size stand. Oak established very well. Some pockets of poorer
	Black Cherry	5	Sapling/Pole	4		Re	d Maple	Medium	5 - 10 feet	Sapling	quality quaking aspen. Rolling topo with ridges and valleys. Rec trail runs
	Quaking Aspen	5	Sapling/Pole	4	28	Black/Re	d (Hybrid) Oak	Low	< 5 feet	Seeding	through stand. Areas of lower aspen stocking yields a greater density of
	Red Maple	5	Sapling/Pole	4		Black/Re	d (Hybrid) Oak	High	10 - 20 feet	Sapling	oak. Scattered large diameter red pines in the northern portion of the stand
	White Pine	5	Pole/Sap/Log	6		Hawt	horn (spp.)	Low	< 5 feet	Tall Shrub	
	Red Pine	5	Log/Pole/XLog	13		Servicebe	erry (Juneberry)	Low	5 - 10 feet	Tall Shrub	
	Paper Birch	5	Pole/Sapling	5		Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	
Blac	ck/Red (Hybrid) Oak	20	Sapling/Pole	4		Wh	nite Pine	Low	< 5 feet	Seeding	
	Bigtooth Aspen	50	Pole/Sapling	5	28	ļ-					•
20	4131 - As	spen, Oak	Pole	etimber	Mediu	ım 15.8	34	51-80	N/A		Mixed aspen stand. Composition and diameters vary. Northern portions contain smaller poles/saps with denser oak stocking in the NE. Moving
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	south aspen diameters increase to some scattered small logs in the far
١	Northern Pin Oak	30	Pole/Sap/Log	7		Wł	nite Pine	Low	5 - 10 feet	Sapling	south. Good overall oak establishment throughout. Scattered canopy gaps
	Jack Pine	5	Pole	8		Northe	ern Pin Oak	Medium	5 - 10 feet	Sapling	with mostly cherry, oak and pine saplings. Very dense hawthorn throughout
	Black Cherry	10	Pole/Sapling	6		Blad	ck Cherry	Medium	Variable	Sapling	
	Quaking Aspen	50	Pole/Sapling	7	34	Servicebe	erry (Juneberry)	Low	10 - 20 feet	Tall Shrub	
	White Pine	5	Log	10		Hawt	horn (spp.)	Medium	Variable	Tall Shrub	
						Re	d Maple	Low	10 - 20 feet	Sapling	
21	3102 -	- Grass	1	Nonsto	cked	5.6	U	nspecified	No		Scattered pine, cherry, oak and various wildlife shrubs scattered in pockets
						Sub-Ca	nopy Species	Density	Avg. Height	Size	Sedge and knap weed.
						R	ed Pine	Low	>20 feet	Log	
						Blad	ck Cherry	Medium	10 - 20 feet	Tall Shrub	
						Northe	ern Pin Oak	Low	5 - 10 feet	Tall Shrub	
22	4199 - Other Mixed	d Upland D	eciduous Sa	awtimbe	er Wel	l 35.0	88	141-170	N/A		Nice mixed stand. Variable composition varying from scattered pine pockets, to upland ridges with nice log/XLog oak with intermixed red maple
	Canopy Species	% Cover	Size Class	DBH		Sub-Ca	nopy Species	Density	Avg. Height	Size	and overmature aspen. Hilly terrain with depressions throughout. Ridges
	Red Oak	30	Log/XLog	15	88	Ame	rican Elm	Trace	>20 feet	Pole	and valleys present with changing site quality. Moving south and east Red
	Paper Birch	5	Log/Pole	11		WI	nite Pine	Low	Variable	Sapling	Oak transitions into more of a black/red hybrid (quality decreases) and
	Bigtooth Aspen	30	Log/XLog	14		Blac	ck Cherry	Medium	5 - 10 feet	Sapling	more declining aspen. Very nice pine with legacy trees present. Subcanopy development is non existent unless within a canopy gap. ORV trail runs
	White Pine	10	Log/XLog	16		Hawt	horn (spp.)	Low	5 - 10 feet	Tall Shrub	through stand. Birch is falling out of stand, and aspen is soon behind. Old
	Sugar Maple	1	Pole	9		R	ed Oak	Low	< 5 feet	Seeding	fire scars on stumps, stand possibly established by fire.
	Red Pine	4	XLog/Log	18		Servicebe	erry (Juneberry)	Medium	5 - 10 feet	Tall Shrub	Previous SI is 58.
Blac	ck/Red (Hybrid) Oak	5	Log/Pole	13							•
	Red Maple	15	Log	12							



Stand	Level 4 Co	over Type	S	ize De	ensity	Acres	Stand Age I	BA Range	Managed \$	Site	General Comments
23	4122 - (Oak, Pine	Sav	vtimbe	r Mediun	n 29.0	92	111-140	N/A		This was originally under contract 72-53-15 but was not cut. It was
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	harvested in 1995 removing everything but pine and oak. Very good quality oak stand. Highly diverse understory but not much development besides
	White Pine	25	Log/XLog/Pole	16		R	Red Oak	Low	10 - 20 feet	Sapling	white pine and red maple. The white pine development in the understory is
	Red Pine	10	Log/XLog	15		H	Hemlock	Low	>20 feet	Pole	very significant varying in size. Small pockets of oak were observed to have
	Red Maple	5	Log	10		F	Red Oak	Low	< 5 feet	Seeding	minor decline; stocking levels in these pockets were very high along with smaller diameters so I would assume competition was too high. Legacy
	Red Oak	60	Log/Pole/XLog	14	92	W	hite Pine	High	Variable	Sapling	trees scattered throughout with rolling topo and scattered hemlock
						Ir	ronwood	Low	5 - 10 feet	Sapling	inclusions.
						R	Red Pine	Low	5 - 10 feet	Sapling	
						Su	gar Maple	Low	10 - 20 feet	Sapling	
						Wi	itch Hazel	Medium	5 - 10 feet	Tall Shrub	
						Stri	ped Maple	Low	10 - 20 feet	Sapling	
						W	hite Pine	Medium	< 5 feet	Seeding	
						Re	ed Maple	High	10 - 20 feet	Sapling	
							Beech	Low	5 - 10 feet	Sapling	
24	4130	- Aspen	P	oletimb	oer Well	22.0	38	81-110	N/A		Harvested in 1984. Somewhat variable in quality and stocking. Moving east
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	quality and stocking increases. Some pockets in the west have poor quality quaking aspen that appear to be stunted or already in decline. Oak is
Bla	ck/Red (Hybrid) Oak	15	Pole/Log	8		Bla	ack Cherry	Low	5 - 10 feet	Sapling	mostly stump sprout origin with some scattered single stems present.
	Bigtooth Aspen	51	Pole	7	38	Serviceb	erry (Juneberry	v) Medium	10 - 20 feet	Tall Shrub	Larger diameter Oak logs in the east. Scattered aspen logs.
	Quaking Aspen	10	Pole	6	38	Wi	itch Hazel	Low	5 - 10 feet	Tall Shrub	
	Red Maple	20	Sapling	4		Black/Re	ed (Hybrid) Oak	c Medium	Variable	Sapling	
	White Pine	2	Pole	8						,	
	Red Pine	2	Pole	8							
25	310 - Herbac	eous Open	ıland	Nonst	ocked	2.5	0 ι	Unspecified	No		Upland brush/low density tree stand. Not managed.
						Sub-Ca	anopy Species	Density	Avg. Height	Size	
						Qua	king Aspen	Low	10 - 20 feet	Sapling	
						Ja	ack Pine	Low	>20 feet	Pole	
						Bla	ack Cherry	Low	10 - 20 feet	Tall Shrub	
26	4130	- Aspen	P	oletimb	oer Well	19.5	38	81-110	N/A		Size and quality variable. Eastern portions contain lower quality quaking, with central portions dominated by better quality bigtooth. Oak
	Canopy Species	% Cover	Size Class	DBI	H Age		anopy Species	Density	Avg. Height	Size	establishment in the canopy increases in the western portions giving way to
	Bigtooth Aspen	40	Pole	7	38	Bla	ack Cherry	Low	5 - 10 feet	Sapling	thickets of hawthorn underneath.
	Red Maple	15	Pole	6		Serviceb	erry (Juneberry	v) Low	10 - 20 feet	Tall Shrub	
	Black Cherry	10	Pole/Sapling	5		North	nern Pin Oak	Low	Variable	Sapling	
	Quaking Aspen	20	Pole	7		Wi	itch Hazel	Medium	5 - 10 feet	Tall Shrub	
	Northern Pin Oak	15	Pole/Sapling	6		Haw	rthorn (spp.)	High	5 - 10 feet	Tall Shrub	

Grayling Mgt. Unit

Compartment: 16 Year of Entry: 2024



Stand	Level 4 Co	over Type	s	ize De	ensity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments
27	4111 - S.Maple, Ha	ard Mast A	ssociation Sa	awtimb	er Well	57.8	96	111-140	N/A		Thinned in 1997 removing all aspen and birch. Various hardwood species
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	(red/sugar maple, basswood, beech, ash) were thinned. Overall really good quality maple and oak. Most basswood is becoming over mature and
	Beech	8	Log/Pole	10		Gr	een Ash	Medium	Variable	Sapling	starting to show signs of decline. The majority of the standing beech is
	Basswood	20	Log	16		Aut	umn Olive	Trace	5 - 10 feet	Tall Shrub	healthy with no signs of scale but there are pockets of infected beech within
	Sugar Maple	55	Log/Pole/XLog	12	96	Suç	gar Maple	Trace	10 - 20 feet	Sapling	the stand. Cankers are present on some of the sugar maple. There are areas of intermediate/co-dominant large pole/small log sugar maple within
	Red Oak	10	XLog/Log/Pole	20		R	ed Oak	Trace	< 5 feet	Seeding	the canopy with areas of sub canopy maple saplings starting to show signs
	Paper Birch	3	Pole	7		Suç	gar Maple	Low	< 5 feet	Seeding	of stagnation with flattening out leaders. Scattered pine inclusions along
	Hemlock	2	Pole	7		Ire	onwood	Low	5 - 10 feet	Sapling	with hemlock in the eastern portions. Hilly terrain that appears very rocky. Northern areas show signs of old pastureland with large open grown sugar
	Red Pine	1	XLog	21			Beech	Full	5 - 10 feet	Sapling	maple. These areas are were the most maple seedlings are found.
	White Pine	1	Log/XLog/Pole	16		W	hite Pine	Low	Variable	Sapling	Scattered birch clones along northern edge. Oak very healthy. Edges alon roads and pine inclusions have significant sugar maple establishment.
28	4130	- Aspen	Pole	etimbe	r Mediur	m 19.2	51	81-110	N/A		Variable declining aspen stand. Somewhat difficult to type out due to
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	variability. Heavy, brushy understory in the northern portion containing mostly young conifer and oak saplings. Canopy cover increases in the
	Red Maple	5	Pole/Log	9			d (Hybrid) Oak		5 - 10 feet	Sapling	central portion where aspen stocking is higher as well as some nice Log
	Red Pine	5	Pole	7		Bla	ck Cherry	Low	5 - 10 feet	Sapling	Oak/red maple. Towards the south and east, the stocking decreases again
	White Pine	5	Log/Pole	12		Hawt	thorn (spp.)	Low	5 - 10 feet	Tall Shruk	moving into a more upland brush appearance with scattered clones of aspen. Northern portion is in a valley with a gradual slope upwards moving
Bla	ck/Red (Hybrid) Oak	10	Pole/Log	8		Qual	king Aspen	Low	5 - 10 feet	Sapling	south. Age from dominant aspen averaged to 50 years old.
	Quaking Aspen	70	Pole/Log/Sap	8	51	Re	ed Maple	Medium	5 - 10 feet	Sapling	, ,
	Black Cherry	5	Pole	6		R	ed Pine	Low	5 - 10 feet	Sapling	
					·	W	hite Pine	Medium	Variable	Sapling	
29	4131 - A	spen, Oak	:	Sapling	y Well	38.6	16	Immature	N/A		Stand harvested in 2006 - Racoon Red Pine. Parent stand was a mature
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Red Pine stand that was left to convert. Scattered areas of advanced Oak and Aspen regen. Variable composition throughout with small natural jack
	Black Cherry	5	Sapling	3		Bla	ck Cherry	Medium	5 - 10 feet	Sapling	pine inclusion in the south east. Currently it appears that the oak is keeping
	Red Pine	2	Log	12		Servicebe	erry (Juneberry)) Low	5 - 10 feet	Tall Shruk	up with the aspen in the canopy in some areas. There is a small inclusion i
	Jack Pine	10	Sapling	4		W	hite Pine	Low	5 - 10 feet	Sapling	the far south along the snowmobile trail that was left from the 2006 harves. There are no notes that mention if it was Long Term Retention or not.
	Red Maple	5	Sapling	3		Black/Re	d (Hybrid) Oak	High	Variable	Sapling	Snowmobile trail runs through stand.
	Bigtooth Aspen	35	Sapling/Pole	4	16	R	ed Pine	Low	< 5 feet	Sapling	· ·
	Quaking Aspen	10	Sapling	3	16	Wit	tch Hazel	Low	5 - 10 feet	Tall Shruk	
Bla	ck/Red (Hybrid) Oak	33	Sapling/Pole	4							
30	330 - Low-[Density Tre	ees	Nonsto	ocked	18.5	0 ι	Inspecified	No		Possible old homestead site. Rolling terrain with thickets of pine and intermixed deciduous species. Could be an MD4 or a non-forested stand.
						Sub-Ca	nopy Species	Density	Avg. Height	Size	Tillettilized deciduous species. Could be all MD4 of a non-forested stand.
						Hawt	thorn (spp.)	Low	5 - 10 feet	Tall Shrub	
						R	ed Oak	Low	>20 feet	Pole	
						Apı	ple (spp.)	Low	>20 feet	Sapling	
						_			_		1

Smooth Sumac

Sugar Maple

Black Walnut

White Pine

White Pine

Tall Shrub

Sapling

Log

Sapling

Pole

5 - 10 feet

10 - 20 feet

>20 feet

5 - 10 feet

>20 feet

Medium

Low

Low

Medium

Medium



	Level 4 Co	over Type	S	Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
31	4199 - Other Mixed	d Upland D	eciduous Sav	wtimbei	r Mediu	ım 12.5	81	111-140	N/A		Site quality appears to decrease moving west to east. Good quality log.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Aspen and oak are doing ok with some minor mortality noted. Bigtooth transitions into quaking moving east towards the road. The canopy cover
	Paper Birch	10	Log/Pole	12		Red	d Maple	Medium	5 - 10 feet	Sapling	decreases dramatically to the east as well where mortality in the overstor
	Quaking Aspen	10	Log	13		Black/Red	d (Hybrid) Oak	Medium	< 5 feet	Seeding	aspen is higher. Better sub-canopy development in the east. Clean sub-
	Red Pine	5	Log	16		Wh	nite Pine	Medium	5 - 10 feet	Sapling	canopy in the west. Heavy deer browse on red maple and oak in sub canopy.
Bla	ck/Red (Hybrid) Oak	30	Log/XLog	15	81	Aspe	en (spp.)	Low	5 - 10 feet	Sapling	carrepy.
	Bigtooth Aspen	20	Log	14							•
	White Pine	5	Log	16							
	Red Maple	20	Log/Pole	11							
32	4132 - Aspe	en, Jack Pi	ne Saw	wtimbei	r Mediu	ım 6.8	72	51-80	N/A		Over mature jack pine and aspen. Thick understory and blowdown present Mixed sub-canopy of red maple and oak in the north.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	winzed sub-carlopy of fed friaple and oak in the flortif.
	Jack Pine	35	Log/XLog	13	76	Quak	ing Aspen	Low	10 - 20 feet	Sapling	
	Quaking Aspen	60	Log/Pole	12	72	Wh	ite Pine	Low	5 - 10 feet	Sapling	
	White Pine	5	Pole	8		Jac	ck Pine	Low	10 - 20 feet	Sapling	
						Red	d Maple	Medium	5 - 10 feet	Sapling	
						Hawth	norn (spp.)	High	5 - 10 feet	Tall Shrub	
							norn (spp.) d (Hybrid) Oak	_	5 - 10 feet 5 - 10 feet	Tall Shrub Sapling	
33	4191 - Mixed Upla Co	and Decidue	ous with Pole	etimbei		Black/Red	(1 1 /	_			Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine.
33		nifer	ous with Pole		r Mediu	Black/Red	d (Hybrid) Oak	Medium 81-110	5 - 10 feet		Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand
33	Ċo	nifer				Black/Redum 23.9 Sub-Car	d (Hybrid) Oak	Medium 81-110	5 - 10 feet N/A	Sapling	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine.
33	Canopy Species	nifer % Cover	Size Class	DBH		Black/Recum 23.9 Sub-Car	37 hopy Species	Medium 81-110 Density	5 - 10 feet N/A Avg. Height	Sapling	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand merchantable.
33	Canopy Species Black Cherry	% Cover	Size Class Pole/Sapling	DB H		Black/Recum 23.9 Sub-Car Jac Smooth	37 nopy Species ck Pine	81-110 Density Low	5 - 10 feet N/A Avg. Height 10 - 20 feet	Sapling Size Sapling	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand merchantable.
	Canopy Species Black Cherry Quaking Aspen	% Cover 10 10	Size Class Pole/Sapling Pole	DBH 6 6		Black/Recum 23.9 Sub-Car Jac Smoo	37 nopy Species ck Pine oth Sumac	81-110 Density Low Low	5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Size Sapling Tall Shrub	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand merchantable.
	Canopy Species Black Cherry Quaking Aspen Red Maple	**Nover************************************	Size Class Pole/Sapling Pole Pole	DBH 6 6 7		Black/Recum 23.9 Sub-Car Jac Smoot Wh Hawth	37 nopy Species ck Pine oth Sumac nite Pine	81-110 Density Low Low Medium Medium	5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet Variable	Size Sapling Tall Shrub Sapling	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand merchantable.
	Canopy Species Black Cherry Quaking Aspen Red Maple ck/Red (Hybrid) Oak	**Note	Size Class Pole/Sapling Pole Pole Pole	DBH 6 6 7 7	I Age	Black/Recum 23.9 Sub-Car Jac Smoot Wh Hawth Serviceber	37 nopy Species ck Pine oth Sumac nite Pine norn (spp.)	81-110 Density Low Low Medium Medium Medium Low	5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet Variable 5 - 10 feet	Size Sapling Tall Shrub Sapling Tall Shrub	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand merchantable.
Bla	Canopy Species Black Cherry Quaking Aspen Red Maple ck/Red (Hybrid) Oak Bigtooth Aspen	% Cover 10 10 15 20 25 15	Size Class Pole/Sapling Pole Pole Pole Pole Pole Pole	DBH 6 6 7 7	I Age	Black/Recum 23.9 Sub-Car Jac Smoot Wh Hawth Servicebet Black/Recumposition	37 nopy Species ck Pine oth Sumac nite Pine norn (spp.) rry (Juneberry) d (Hybrid) Oak	81-110 Density Low Low Medium Medium Medium Juspecified	5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 5 - 10 feet No	Size Sapling Tall Shrub Sapling Tall Shrub Tall Shrub Sapling	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand merchantable. Small aspen inclusion in the far south along ORV trail. Mostly grassy
Bla	Canopy Species Black Cherry Quaking Aspen Red Maple ck/Red (Hybrid) Oak Bigtooth Aspen Jack Pine	% Cover 10 10 15 20 25 15	Size Class Pole/Sapling Pole Pole Pole Pole Pole Pole	DBH 6 6 7 7 7 7	I Age	Black/Rec um 23.9 Sub-Car Jac Smoo Wh Hawth Servicebe Black/Rec 9.3 Sub-Car	ad (Hybrid) Oak 37 nopy Species ck Pine oth Sumac nite Pine norn (spp.) rry (Juneberry) d (Hybrid) Oak 0 U nopy Species	81-110 Density Low Low Medium Medium Juspecified Density	5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 5 - 10 feet No Avg. Height	Size Sapling Tall Shrub Sapling Tall Shrub Tall Shrub Sapling Size	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand merchantable. Small aspen inclusion in the far south along ORV trail. Mostly grassy opening with scattered deciduous trees intermixed in a thick white pine grove in the SE corner. Appears to have history of ORV damage due to
Bla	Canopy Species Black Cherry Quaking Aspen Red Maple ck/Red (Hybrid) Oak Bigtooth Aspen Jack Pine	% Cover 10 10 15 20 25 15	Size Class Pole/Sapling Pole Pole Pole Pole Pole Pole	DBH 6 6 7 7 7 7	I Age	Black/Recomm 23.9 Sub-Car Smooth White Service better Black/Recommonders and sub-Car Sub-Car White Sub-Car White Sub-Car	and (Hybrid) Oak 37 Thopy Species Ck Pine Oth Sumac Other	81-110 Density Low Low Medium Medium Medium Juspecified	5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 7 - 10 feet 7 - 10 feet 8 - 10 feet 9 - 10 feet 7 - 10 feet 9 - 10 feet	Size Sapling Tall Shrub Sapling Tall Shrub Sapling Sapling Sapling Sapling Size Pole	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand merchantable. Small aspen inclusion in the far south along ORV trail. Mostly grassy opening with scattered deciduous trees intermixed in a thick white pine
33 Bla	Canopy Species Black Cherry Quaking Aspen Red Maple ck/Red (Hybrid) Oak Bigtooth Aspen Jack Pine	% Cover 10 10 15 20 25 15	Size Class Pole/Sapling Pole Pole Pole Pole Pole Pole	DBH 6 6 7 7 7 7	I Age	Black/Recomm 23.9 Sub-Car Smooth Whawth Servicebee Black/Recomm 9.3 Sub-Car What Sugar	ad (Hybrid) Oak 37 nopy Species ck Pine oth Sumac nite Pine norn (spp.) rry (Juneberry) d (Hybrid) Oak 0 U nopy Species	81-110 Density Low Low Medium Medium Juspecified Density	5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 5 - 10 feet No Avg. Height	Size Sapling Tall Shrub Sapling Tall Shrub Tall Shrub Sapling Size	Harvested in 1986. Fair quality mixed stand with pockets of aspen, oak a maple, along with scattered upland brush openings with cherry and pine. Jack and red pine inclusion in the east along the snowmobile trail. Stand merchantable. Small aspen inclusion in the far south along ORV trail. Mostly grassy opening with scattered deciduous trees intermixed in a thick white pine grove in the SE corner. Appears to have history of ORV damage due to

12

Log

Compartment: 16 Year of Entry: 2024



Stand	Level 4 Co	ver Type	;	Size De	nsity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments
35	4319 - Mixed	Upland Fo	orest S	Sawtimb	er Well	18.1	76	111-140	N/A		Difficult stand to describe. Some very nice quality pockets of oak, maple,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine and aspen transitioning into pockets of mortality with very thick, brushy understory. Most of the mortality is in dead jack pine. Very nice Red Pine
	Red Pine	15	Log/XLog/Pole	e 15		Wh	nite Pine	Trace	< 5 feet	Seeding	throughout. Sub-Canopy density is highly variable. The oak is mostly higher
Black	k/Red (Hybrid) Oak	20	Log/Pole	13		White Pine		Low	10 - 20 feet	Sapling	quality Black/Red, doesn't appear to be true Red Oak. Rolling topography
	Red Maple	15	Log/Pole	11		Black/Red (Hybrid) Oak		Medium	10 - 20 feet	Sapling	with scattered kettle holes. Continuation of stand 52 to the south but with a higher deciduous component.
	Paper Birch	5	Log	10		Servicebe	erry (Juneberry)	Low	5 - 10 feet	Tall Shrub	
	Bigtooth Aspen	15	Log	12		Re	d Maple	Medium	Variable	Sapling	
	White Pine	30	Log/Pole	12	76				•		•
36	4139 - Aspen, N	/lixed Dec	iduous P	oletimb	er Well	27.8	49	111-140	N/A		Overall nice quality stand. Fairly consistent throughout with a small clone of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	quaking aspen with intermixed standing dead jack pine. Southern portions have smaller diameters. There is a small planted red pine inclusion in the
-	Bigtooth Aspen	50	Pole/Log	9	49	Re	d Maple	Low	5 - 10 feet	Sapling	west portion of the stand.
	White Pine	5	Log/XLog/Pole	e 14		Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	
	Red Pine	5	Log	11		Re	ed Pine	Trace	< 5 feet	Seeding	
Black	k/Red (Hybrid) Oak	5	Pole/Log	8		Wh	nite Pine	Low	5 - 10 feet	Sapling	
(Quaking Aspen	5	Pole/Log	9		Black/Re	d (Hybrid) Oak	Low	5 - 10 feet	Sapling	
	Red Maple	30	Log/Pole	10		Servicebe	erry (Juneberry)	Medium	10 - 20 feet	Tall Shrub	
37	4199 - Other Mixed	l Upland D	Deciduous Pol	letimber	Mediur	n 7.2	28	1-50	N/A		Harvested in 1994 with stand 38 and 41 to the east. Variable composition
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	with some scattered log oak in the west. Very brushy stand. Oak multistemmed, all stump sprout origin.
	Jack Pine	10	Pole/Sapling	7		Ja	ick Pine	Low	5 - 10 feet	Sapling	definition, an atomp oprode origin.
	White Pine	5	Pole	6		Servicebe	erry (Juneberry)	Low	5 - 10 feet	Tall Shrub	
	Black Cherry	35	Pole/Sapling	6	28	Re	ed Pine	Trace	< 5 feet	Sapling	
Black	k/Red (Hybrid) Oak	35	Pole/Sapling	6	28	Hawt	horn (spp.)	Medium	5 - 10 feet	Tall Shrub	
(Quaking Aspen	15	Pole/Sapling	5	28	Quak	king Aspen	Low	5 - 10 feet	Sapling	
				1		Wh	nite Pine	Low	5 - 10 feet	Sapling	
38	4199 - Other Mixed	l Upland D	Deciduous P	oletimb	er Poor	7.6	28	1-50	N/A		Stand harvested in 1994 along with stand 41 and 37. Mostly dominated by
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	cherry brush, and oak pockets. Scattered aspen stems along with some log Oak, RP and aspen on the edges. Could be managed as an opening.
	k/Red (Hybrid) Oak	32	Pole/Sapling	6	_		horn (spp.)	Low	< 5 feet	Tall Shrub	ount, it and aspen on the edges. Could be managed as an opening.
	Black Cherry	32	Pole/Sapling	5	28	Blac	ck Cherry	Low	< 5 feet	Sapling	
(Quaking Aspen	32	Sapling/Pole	4			d (Hybrid) Oak	Low	< 5 feet	Seeding	
	Red Pine	2	Log	16			· · · · ·		1		1

White Pine

2



Stand	Level 4 Co	over Type	•	Size De	neity	Acros	Stand Age E	RA Range	Managed S	Sita	General Comments
39	42121 - Planted			Sapling		21.7		Immature	N/A	<u> </u>	Harvested in 2006, trenched in 2007 and planted in 2008. Areas of jack pine mortality that have filled in with aspen, oak and cherry.
			0' 0'								pine mortality that have filled in with aspen, oak and cherry.
	Canopy Species Northern Pin Oak	% Cover	Size Class Sapling	2	Age 16						
	Jack Pine	60	Sapling	2	14						
	Quaking Aspen	15	Sapling	2	16						
	Black Cherry	10	Sapling	2	10						
40	4131 - A	spen, Oak	P	oletimb	er Wel	l 39.8	50	141-170	N/A		Majority of the stand is nice quality oak and aspen. Rolling terrain which
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	yields some fair quality quaking aspen and red maple in valleys. Nice oal component throughout, but transitions into an oak dominated canopy in the
	Bigtooth Aspen	35	Pole/Log	9	50		erry (Juneberry		5 - 10 feet	Tall Shrub	
	Quaking Aspen	5	Pole/Log	8		W	hite Pine	Low	10 - 20 feet	Sapling	southwest corner contains a large oak mortality pocket.
	White Pine	2	Log/Pole	10		Wi	tch Hazel	Low	5 - 10 feet	Tall Shrub	
	Paper Birch	5	Pole	7		Haw	thorn (spp.)	Low	5 - 10 feet	Tall Shrub	
	Red Maple	23	Log	10	50	Black/Re	ed (Hybrid) Oak	Medium	Variable	Sapling	
Blac	k/Red (Hybrid) Oak	30	Log/Pole/XLog	14	80	Re	ed Maple	Medium	5 - 10 feet	Sapling	
41	4139 - Aspen, I			oletimb			28	51-80	N/A		Harvested in 1994. Overall rolling terrain. Quaking aspen clones in the lower' valleys. Scattered oak pockets. Pretty consistent poles with with
	Canopy Species		Size Class		I Age		nopy Species		Avg. Height	Size	portions that are just reaching pole size. Snowmobile trails runs through
	Black Cherry	10	Sapling/Pole	4	00		ed (Hybrid) Oak		5 - 10 feet	Sapling	stand.
Dia	Red Maple	15	Pole/Sapling	5	28		ed Maple	Medium	5 - 10 feet	Sapling	
	k/Red (Hybrid) Oak	15 15	Pole/Sapling	5	20		tch Hazel	Low	5 - 10 feet < 5 feet	Tall Shrub	
	Quaking Aspen	40	Pole/Sapling Pole	5	28		thorn (spp.)	Low	10 - 20 feet		
	Bigtooth Aspen Jack Pine	5			20	Servicedo	erry (Juneberry) Low	10 - 20 feet	Tall Shrub	
	Jack Pine	5	Sapling/Pole	4							
42	4130	- Aspen	Р	oletimb		l 14.9	28	1-50	N/A		Stand harvested in 1994. Good overall regeneration. Oak dominates sor areas in the canopy. Thick hawthorn throughout. Small valley runs SW to
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	NE with some lower quality stems.
	Red Maple	15	Pole/Sapling	5		Wi	tch Hazel	Low	5 - 10 feet	Tall Shrub	
Blac	k/Red (Hybrid) Oak	15	Sapling/Pole	4		Haw	thorn (spp.)	High	5 - 10 feet	Tall Shrub	
	Black Cherry	10	Pole/Sapling	5		Bla	ck Cherry	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	60	Pole/Sapling	5	28	Re	ed Maple	Medium	5 - 10 feet	Sapling	
						Black/Re	ed (Hybrid) Oak	Medium	5 - 10 feet	Sapling	
						R	ted Pine	Trace	< 5 feet	Sapling	
											<u>.</u>

MICHIGAN

Stanc	d Level 4 Co	over Type		Size De	nsity	Acres S	Stand Age B	A Range	Managed S	Site	General Comments
43	4191 - Mixed Upla Co	and Deciduo onifer	ous with S	Sawtimb	er Poor	24.9	48	51-80	N/A		Interesting stand. Portions contain Log oak, aspen and jack pine with the majority of the stand a mixed oak and cherry sapling stand. Oak appears to
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cand	py Species	Density	Avg. Height	Size	have established well throughout with stems recruiting well into canopy gaps. It appears that most of the stand had aspen that reached mortality
	Northern Pin Oak	25	Log/XLog	15		Quakir	ng Aspen	Low	5 - 10 feet	Sapling	and fell over giving way to oak and cherry brush underneath. May be a
	Black Cherry	25	Pole	8		Black	Cherry	Medium	5 - 10 feet	Sapling	good example of what happens if an aspen stand is left. Overstory oak is
	Quaking Aspen	25	Log/Pole	10	48	Serviceberr	y (Juneberry)	Medium	10 - 20 feet	Tall Shrub	ok, with the remaining aspen in decline. Good wildlife stand with thick brush understory throughout. O7, A7, O3.
	Red Maple	5	Pole/Log	9		Hawtho	orn (spp.)	Medium	5 - 10 feet	Tall Shrub	- tilderstory tilloughout. 07, A7, 03. -55 sq ft.
	Jack Pine	20	Log	12		Whit	e Pine	Low	< 5 feet	Seeding	
				'		Red	Maple	Medium	5 - 10 feet	Sapling	
						Norther	n Pin Oak	Medium	>20 feet	Pole	
44	42220 - Nat	ural Jack P	ine Po	letimber	Mediur	n 5.8	54	1-50	N/A		Could not find any history on this stand. Looking at old imagery, it appears
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cand	py Species	Density	Avg. Height	Size	that it was very similar to the parent stand of stand 47. Lots of berm and holes within the stand. Could have been used for oil and gas development
	Jack Pine	90	Pole/Log	8	54	Norther	n Pin Oak	Low	5 - 10 feet	Sapling	in the past or a scramble area.
	Quaking Aspen	10	Pole	6		Black	Cherry	Low	5 - 10 feet	Tall Shrub	
						Jacl	k Pine	Low	5 - 10 feet	Sapling	
						Red	d Pine	Trace	< 5 feet	Sapling	
						Quakir	ng Aspen	Medium	5 - 10 feet	Sapling	
45	4131 - A	spen, Oak		Sapling	Well	73.9	6 1	mmature	N/A		Stand was part of Frost Pocket Aspen/Oak Sale. Harvest completed September 2016. Canopy cover closer to 75% due to some areas of lower
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cand	py Species	Density	Avg. Height	Size	stocking. Oak is regenerating well through mostly stump sprouts, with some
Bla	nck/Red (Hybrid) Oak	35	Sapling	1		Black/Red	(Hybrid) Oak	Medium	< 5 feet	Seeding	scattered single stems present. Higher oak densities in patches. Browse
	Red Maple	5	Sapling	1		Black	Cherry	Low	< 5 feet	Sapling	present throughout. Some minor topography. Scattered residual Red Pine. Oak within retention islands healthy. Snowmobile trail runs through stand.
	Black Cherry	4	Sapling	1		Red	d Pine	Trace	< 5 feet	Sapling	Oak within retention islands healthy. Showmobile trail runs through stand.
	Red Pine	1	Log	15		Witch	n Hazel	Low	< 5 feet	Tall Shrub	
	Bigtooth Aspen	55	Sapling	1	6						
46	4191 - Mixed Upla		ous with S	Sapling N	/ledium	25.7	15	1-50	N/A		Old notes indicate stand was harvested in 2007. Appears that the pine was
	Co	onifer									
	Canopy Species		Size Class	DBH	Age	Sub-Cano	opy Species	Density	Avg. Height	Size	pockets of aspen clones along with oak pockets. Few scattered log aspen
			Size Class Pole	DBH	Age		opy Species orn (spp.)	Density Medium	Avg. Height < 5 feet	Size Tall Shrub	pockets of aspen clones along with oak pockets. Few scattered log aspen
	Canopy Species	% Cover		7	Age	Hawtho		Medium			pockets of aspen clones along with oak pockets. Few scattered log aspen found throughout. Brushy cherry clumps fairly consistent throughout. Rolling terrain.
	Canopy Species Jack Pine	% Cover	Pole	7 5		Hawtho Serviceberr	orn (spp.)	Medium	< 5 feet	Tall Shrub	pockets of aspen clones along with oak pockets. Few scattered log aspen found throughout. Brushy cherry clumps fairly consistent throughout. Rolling terrain.
47	Canopy Species Jack Pine Black Cherry Quaking Aspen	% Cover 20 35	Pole Pole/Sapling Sapling/Pole	7 5	15	Hawtho Serviceberr	orn (spp.) y (Juneberry) Cherry	Medium Low	< 5 feet 5 - 10 feet	Tall Shrub	pockets of aspen clones along with oak pockets. Few scattered log aspen found throughout. Brushy cherry clumps fairly consistent throughout. Rolling terrain. Stand harvest in 2007, trenched in 2008, initially planted in 2009 and re-
47	Canopy Species Jack Pine Black Cherry Quaking Aspen	% Cover 20 35 35 35	Pole Pole/Sapling Sapling/Pole	7 5 4 Sapling	15	Hawtho Serviceberr Black	orn (spp.) y (Juneberry) Cherry	Medium Low Medium	< 5 feet 5 - 10 feet 5 - 10 feet	Tall Shrub	pockets of aspen clones along with oak pockets. Few scattered log aspen found throughout. Brushy cherry clumps fairly consistent throughout. Rolling terrain. Stand harvest in 2007, trenched in 2008, initially planted in 2009 and replanted in 2012. Jack pine stocking is variable. Areas where there is low
	Canopy Species Jack Pine Black Cherry Quaking Aspen 4310 - Pin	% Cover 20 35 35 35	Pole Pole/Sapling Sapling/Pole	7 5 4 Sapling	15 Well	Hawtho Serviceberr Black 32.7 Sub-Cand	orn (spp.) ry (Juneberry) Cherry	Medium Low Medium	< 5 feet 5 - 10 feet 5 - 10 feet N/A	Tall Shrub Tall Shrub Sapling	pockets of aspen clones along with oak pockets. Few scattered log aspen found throughout. Brushy cherry clumps fairly consistent throughout. Rolling terrain. Stand harvest in 2007, trenched in 2008, initially planted in 2009 and re-
	Canopy Species Jack Pine Black Cherry Quaking Aspen 4310 - Pin Canopy Species	% Cover 20 35 35 ne, Oak Mix % Cover	Pole Pole/Sapling Sapling/Pole Size Class	7 5 4 Sapling	15 Well	Hawthor Serviceberry Black 32.7 Sub-Cano	orn (spp.) y (Juneberry) Cherry 10 ppy Species	Medium Low Medium Immature Density	< 5 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height	Tall Shrub Tall Shrub Sapling	pockets of aspen clones along with oak pockets. Few scattered log aspen found throughout. Brushy cherry clumps fairly consistent throughout. Rolling terrain. Stand harvest in 2007, trenched in 2008, initially planted in 2009 and replanted in 2012. Jack pine stocking is variable. Areas where there is low jack pine stocking, oak, aspen and cherry are dominating. Very heavy
	Canopy Species Jack Pine Black Cherry Quaking Aspen 4310 - Pin Canopy Species Northern Pin Oak	% Cover 20 35 35 35 ne, Oak Mix % Cover 25	Pole Pole/Sapling Sapling/Pole Size Class Sapling	7 5 4 Sapling DBH 2	Well Age	Hawthor Serviceberry Black 32.7 Sub-Cano	orn (spp.) ry (Juneberry) Cherry 10 ppy Species n Pin Oak	Medium Low Medium Immature Density Low	< 5 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height < 5 feet	Tall Shrub Tall Shrub Sapling Size Sapling	pockets of aspen clones along with oak pockets. Few scattered log aspen found throughout. Brushy cherry clumps fairly consistent throughout. Rolling terrain. Stand harvest in 2007, trenched in 2008, initially planted in 2009 and replanted in 2012. Jack pine stocking is variable. Areas where there is low jack pine stocking, oak, aspen and cherry are dominating. Very heavy deciduous stocking in the far north.
	Canopy Species Jack Pine Black Cherry Quaking Aspen 4310 - Pin Canopy Species Northern Pin Oak Jack Pine	% Cover 20 35 35 35 35 35 Me, Oak Mix 25 55	Pole Pole/Sapling Sapling/Pole Size Class Sapling Sapling	7 5 4 Sapling DBH 2 2	15 Well Age 15 10	Hawthor Serviceberry Black 32.7 Sub-Cano Norther Rec	orn (spp.) ry (Juneberry) Cherry 10 ppy Species n Pin Oak If Pine	Medium Low Medium Immature Density Low Trace Low	< 5 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height < 5 feet < 5 feet	Tall Shrub Tall Shrub Sapling Size Sapling Sapling	Stand harvest in 2007, trenched in 2008, initially planted in 2009 and replanted in 2012. Jack pine stocking is variable. Areas where there is low jack pine stocking, oak, aspen and cherry are dominating. Very heavy deciduous stocking in the far north.



Stand	d Level 4 Co					Acres S	rana rigo B		Managed S		
48	4131 - As	spen, Oak	Po	oletimb	er Well	20.0	38	51-80	N/A		Overall small pole sized stand. Similar to the surrounding aspen stand.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cano	py Species	Density	Avg. Height	Size	Dominated by bigtooth with scattered pockets of quaking aspen, red maple cherry and oak. Rolling terrain. Quality and size is variable. Larger
	Quaking Aspen	10	Pole/Sapling	6		Red	Maple	High	5 - 10 feet	Sapling	diameters to the east as well as higher stocking of red maple. Due to the
	Red Maple	10	Pole	6		White	e Pine	Low	Variable	Sapling	rolling terrain, there are quite a few depressions that are found throughout.
	Bigtooth Aspen	50	Pole/Sap/Log	6	38	Black/Red	(Hybrid) Oak	Medium	5 - 10 feet	Sapling	These areas have a upland brush appearance mimicking small wildlife openings.
Blac	ck/Red (Hybrid) Oak	20	Pole/Sap/Log	6		Hawtho	orn (spp.)	High	Variable	Tall Shrub	- openinger
	Black Cherry	5	Pole/Sapling	5						'	
	White Pine	5	Pole	6							
49	330 - Low-D	Density Tre	es i	Nonsto	cked	9.6	0 Uı	nspecified	No		Brushy, somewhat vegetated opening adjacent to the Frost Pocket
						Sub-Cano	py Species	Density	Avg. Height	Size	Prescribed Burn unit. Appears to have had old ORV damage or other uses. Area looks somewhat degraded.
						Jack	k Pine	Low	10 - 20 feet	Sapling	Area looks somewhat degraded.
						Black	Cherry	Low	5 - 10 feet	Tall Shrub	
						Northerr	n Pin Oak	Low	5 - 10 feet	Sapling	
						Ouakin	ıg Aspen	Low	10 - 20 feet	Pole	
						Quaniii	ig Aspen	LOW	10 201000	1 010	
50	42110 - Plar	nted Red P	ine Sa	wtimb	er Well	29.0		111-140	N/A	1 010	Thinned in 2006. Crown ratios variable throughout along with stocking and
50	42110 - Plan	nted Red P			er Well	29.0				Size	diameters. South half of the plantation is patchy with areas of thick jack
50						29.0 Sub-Cano	60	111-140	N/A		
50	Canopy Species	% Cover	Size Class	DBF	l Age	29.0 Sub-Cano Northern	60 opy Species	111-140 Density	N/A Avg. Height	Size	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better
50	Canopy Species Red Pine	% Cover	Size Class Log/Pole	DB F	l Age	29.0 Sub-Cand Northern Red	60 ppy Species n Pin Oak	111-140 Density Medium	N/A Avg. Height 5 - 10 feet	Size Sapling	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better
50	Canopy Species Red Pine	% Cover	Size Class Log/Pole	DB F	l Age	29.0 Sub-Cano Northerr Red Hawtho	60 ppy Species n Pin Oak Maple	111-140 Density Medium Low	N/A Avg. Height 5 - 10 feet 5 - 10 feet	Size Sapling Sapling	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better
50 51	Canopy Species Red Pine Jack Pine	% Cover	Size Class Log/Pole Pole	DBH 12 6	l Age	29.0 Sub-Cano Northerr Red Hawtho	60 opy Species In Pin Oak Maple Orn (spp.)	Density Medium Low Low	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet	Size Sapling Sapling Tall Shrub	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to
	Canopy Species Red Pine Jack Pine	% Cover 90 10	Size Class Log/Pole Pole	DBH 12 6	60	29.0 Sub-Cano Northerr Red Hawtho Jack	60 ppy Species In Pin Oak Maple In Pin (spp.) In Pin (spp.) In Pin (spp.)	111-140 Density Medium Low Low Medium	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable	Size Sapling Sapling Tall Shrub	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout
51	Canopy Species Red Pine Jack Pine 4131 - As	% Cover 90 10 spen, Oak	Size Class Log/Pole Pole	DBH 12 6	Age 60 60 er Well	29.0 Sub-Canc Northerr Red Hawtho Jack 18.6 Sub-Canc	60 oppy Species In Pin Oak Maple orn (spp.) It Pine 38	111-140 Density Medium Low Low Medium 51-80	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A	Size Sapling Sapling Tall Shrub Sapling	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to
51	Canopy Species Red Pine Jack Pine 4131 - As Canopy Species	% Cover 90 10 spen, Oak % Cover	Size Class Log/Pole Pole Pole	DBH 12 6	er Well	29.0 Sub-Cano Northern Red Hawtho Jack 18.6 Sub-Cano Servicebern	60 ppy Species In Pin Oak Maple porn (spp.) Ix Pine 38 ppy Species	111-140 Density Medium Low Low Medium 51-80 Density	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A Avg. Height	Size Sapling Sapling Tall Shrub Sapling	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout stand. Diameters variable. Stand is just reaching merchantability. Compared to other stands of similar age, stand seems to have smaller
51	Canopy Species Red Pine Jack Pine 4131 - As Canopy Species ck/Red (Hybrid) Oak	% Cover 90 10 spen, Oak % Cover 30	Size Class Log/Pole Pole Pole Pole Size Class Pole/Sapling	DBH 6	er Well	29.0 Sub-Cand Northern Red Hawtho Jack 18.6 Sub-Cand Servicebern Hawtho	60 ppy Species In Pin Oak Maple Porn (spp.) In Pine 38 ppy Species In Pine y (Juneberry)	111-140 Density Medium Low Low Medium 51-80 Density Low	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A Avg. Height 5 - 10 feet	Size Sapling Sapling Tall Shrub Sapling Size Tall Shrub	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout stand. Diameters variable. Stand is just reaching merchantability. Compared to other stands of similar age, stand seems to have smaller
51	Canopy Species Red Pine Jack Pine 4131 - As Canopy Species ck/Red (Hybrid) Oak Quaking Aspen	% Cover 90 10 10 spen, Oak % Cover 30 25	Size Class Log/Pole Pole Pole Pole Size Class Pole/Sapling Pole/Sapling	DBH 12 6 DBH 6 5	er Well	29.0 Sub-Cano Northern Red Hawtho Jack 18.6 Sub-Cano Servicebern Hawtho Black	60 ppy Species In Pin Oak Maple Porn (spp.) In Pin Pin Oak Maple Porn (spp.) In Pin Oak Maple Porn (spp.) In Oak Maple Porn (spp.) In Oak Maple Porn (spp.)	111-140 Density Medium Low Low Medium 51-80 Density Low Low Low	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A Avg. Height 5 - 10 feet < 5 feet	Size Sapling Sapling Tall Shrub Sapling Size Tall Shrub Tall Shrub	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout stand. Diameters variable. Stand is just reaching merchantability. Compared to other stands of similar age, stand seems to have smaller
51	Canopy Species Red Pine Jack Pine 4131 - As Canopy Species ck/Red (Hybrid) Oak Quaking Aspen Red Maple	% Cover 90 10 10 spen, Oak % Cover 30 25 15 30	Size Class Log/Pole Pole Pole Size Class Pole/Sapling Pole/Sapling/Pole Pole/Sapling	DBH 12 6 5 4 6	er Well Age 38	29.0 Sub-Cano Northern Red Hawtho Jack 18.6 Sub-Cano Servicebern Hawtho Black	60 oppy Species In Pin Oak Maple orn (spp.) It Pine 38 oppy Species Ity (Juneberry) orn (spp.) Cherry Maple	111-140 Density Medium Low Low Medium 51-80 Density Low Low Medium	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet	Size Sapling Sapling Tall Shrub Sapling Size Tall Shrub Tall Shrub Sapling	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout stand. Diameters variable. Stand is just reaching merchantability. Compared to other stands of similar age, stand seems to have smaller diameters. Nice oak logs throughout. Aspen and red maple in pockets and edges.
51	Canopy Species Red Pine Jack Pine 4131 - As Canopy Species ck/Red (Hybrid) Oak Quaking Aspen Red Maple Bigtooth Aspen	% Cover 90 10 10 spen, Oak % Cover 30 25 15 30 d Upland D	Size Class Log/Pole Pole Pole Size Class Pole/Sapling Pole/Sapling/Pole Pole/Sapling	12 6 6 5 4 6 6 awtimb	er Well Age 38	29.0 Sub-Canc Northerr Red Hawtho Jack 18.6 Sub-Canc Serviceberr Hawtho Black Red 8.5	60 oppy Species In Pin Oak Maple orn (spp.) It Pine 38 oppy Species Ity (Juneberry) orn (spp.) Cherry Maple	Density Low Low Medium 51-80 Density Low Low Medium	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Size Sapling Sapling Tall Shrub Sapling Size Tall Shrub Tall Shrub Sapling	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest. Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout stand. Diameters variable. Stand is just reaching merchantability. Compared to other stands of similar age, stand seems to have smaller diameters. Nice oak logs throughout. Aspen and red maple in pockets and edges. Small valley in the eastern central portion moving down into stand 32.
51	Canopy Species Red Pine Jack Pine 4131 - As Canopy Species ck/Red (Hybrid) Oak Quaking Aspen Red Maple Bigtooth Aspen 4199 - Other Mixed	% Cover 90 10 10 spen, Oak % Cover 30 25 15 30 d Upland D	Size Class Log/Pole Pole Pole Size Class Pole/Sapling Pole/Sapling Sapling/Pole Pole/Sapling Pole/Sapling	12 6 6 5 4 6 6 awtimb	er Well 38 ar Well ar Well	29.0 Sub-Cand Northern Red Hawtho Jack 18.6 Sub-Cand Servicebern Hawtho Black Red 8.5 Sub-Cand	60 opy Species In Pin Oak Maple orn (spp.) In Pine 38 opy Species In Pine 38 opy Species In Pine White Pine	111-140 Density Medium Low Low Medium 51-80 Density Low Low Medium Medium 111-140	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet N/A	Size Sapling Sapling Tall Shrub Sapling Size Tall Shrub Tall Shrub Sapling Sapling Sapling	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout stand. Diameters variable. Stand is just reaching merchantability. Compared to other stands of similar age, stand seems to have smaller diameters. Nice oak logs throughout. Aspen and red maple in pockets and edges.
51 Blace	Canopy Species Red Pine Jack Pine 4131 - As Canopy Species ck/Red (Hybrid) Oak Quaking Aspen Red Maple Bigtooth Aspen 4199 - Other Mixed Canopy Species	% Cover 90 10 10 spen, Oak % Cover 30 25 15 30 d Upland D % Cover	Size Class Log/Pole Pole Pole Size Class Pole/Sapling Pole/Sapling Sapling/Pole Pole/Sapling Sapling/Pole Pole/Sapling	DBH 12 6 Dletimb DBH 6 5 4 6	er Well 38 ar Well ar Well	29.0 Sub-Cand Northern Red Hawtho Jack 18.6 Sub-Cand Servicebern Hawtho Black Red 8.5 Sub-Cand Servicebern	60 ppy Species In Pin Oak Maple prin (spp.) Reprine 38 ppy Species In Pin Oak Maple In Oak Maple In Oak Maple In Oak Maple In Oak In Oak Maple In Oak In	Density Density Medium Low Low Medium 51-80 Density Low Medium Medium 111-140 Density	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet N/A Avg. Height	Size Sapling Sapling Tall Shrub Sapling Size Tall Shrub Tall Shrub Sapling Sapling Sapling	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout stand. Diameters variable. Stand is just reaching merchantability. Compared to other stands of similar age, stand seems to have smaller diameters. Nice oak logs throughout. Aspen and red maple in pockets and edges. Small valley in the eastern central portion moving down into stand 32. Some over mature aspen in the east portion. Heavier oak saps in the east
51 Blace 52	Canopy Species Red Pine Jack Pine 4131 - As Canopy Species ck/Red (Hybrid) Oak Quaking Aspen Red Maple Bigtooth Aspen 4199 - Other Mixed Canopy Species Red Maple	% Cover 90 10 10	Size Class Log/Pole Pole Pole Size Class Pole/Sapling Pole/Sapling Sapling/Pole Pole/Sapling Sapling/Pole Pole/Sapling	12 6	er Well 38 ar Well ar Well	29.0 Sub-Cand Northern Red Hawtho Jack 18.6 Sub-Cand Serviceberr Hawtho Black Red 8.5 Sub-Cand Serviceberr Red	60 opy Species In Pin Oak Maple orn (spp.) It Pine 38 opy Species Ity (Juneberry) Orn (spp.) Cherry Maple 80 opy Species Ity (Juneberry)	Density Low Low Low S1-80 Density Low Low Medium 111-140 Density Low Medium Medium 111-140 Density Low Low Low Medium	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet	Size Sapling Sapling Tall Shrub Sapling Size Tall Shrub Tall Shrub Sapling Sapling Size Tall Shrub	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout stand. Diameters variable. Stand is just reaching merchantability. Compared to other stands of similar age, stand seems to have smaller diameters. Nice oak logs throughout. Aspen and red maple in pockets and edges. Small valley in the eastern central portion moving down into stand 32. Some over mature aspen in the east portion. Heavier oak saps in the east
51 Blace 52	Canopy Species Red Pine Jack Pine 4131 - As Canopy Species ck/Red (Hybrid) Oak Quaking Aspen Red Maple Bigtooth Aspen 4199 - Other Mixed Canopy Species Red Maple Bigtooth Aspen	% Cover 90 10 10	Size Class Log/Pole Pole Pole Size Class Pole/Sapling Pole/Sapling/Pole Pole/Sapling Sapling/Pole Pole/Sapling Log/Pole Log/Pole	12 6	er Well Age 38 38 er Well Age	29.0 Sub-Cand Northern Red Hawtho Jack 18.6 Sub-Cand Serviceberr Hawtho Black Red 8.5 Sub-Cand Red Hawtho Red Hawtho	60 opy Species In Pin Oak Maple orn (spp.) It Pine 38 opy Species Ity (Juneberry) orn (spp.) Cherry Maple 80 opy Species Ity (Juneberry) Maple 80 opy Species Ity (Juneberry) Maple Maple	111-140 Density Medium Low Low Medium 51-80 Density Low Medium Medium 111-140 Density Low Low Medium	N/A Avg. Height 5 - 10 feet 5 - 10 feet < 5 feet Variable N/A Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet	Size Sapling Sapling Tall Shrub Sapling Size Tall Shrub Tall Shrub Sapling Sapling Size Tall Shrub Sapling	diameters. South half of the plantation is patchy with areas of thick jack pine saplings with intermixed red pine poles. Quality is fair with the better quality in the north. Cutting records mention 1984 harvest Originally merged with stand 22 to the west. Brushy stand. Oak established well. Rolling terrain throughout stand. Diameters variable. Stand is just reaching merchantability. Compared to other stands of similar age, stand seems to have smaller diameters. Nice oak logs throughout. Aspen and red maple in pockets and edges. Small valley in the eastern central portion moving down into stand 32. Some over mature aspen in the east portion. Heavier oak saps in the east



Stand	Level 4 Co	el 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		Site	General Comments					
53	4130	- Aspen	Р	oletimb	er Well	7.4 28	1-50	N/A		Broken out of stand 23 to the south based on composition and characteristics. This portion was harvested in 1994 along with the aspen to
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Specie	es Density	Avg. Height	Size	the south (stand 19). Scattered overstory pines and the occasional large
	Red Pine	2	Log	10		Ironwood	Low	5 - 10 feet	Sapling	crowned oak but is dominated by aspen. Overall just reaching pole size
	Bigtooth Aspen	60	Pole	6	28	Red Oak	Low	< 5 feet	Seeding	class. Aspen looks healthy. Pipeline ROW runs along the northern edge. Some minor topography with some small kettle holes.
	Paper Birch	5	Pole/Sapling	5		White Pine	Low	Variable	Sapling	Some minor topography with some small kettle noies.
	Quaking Aspen	10	Pole	5		Red Maple	Medium	5 - 10 feet	Sapling	
	White Pine	5	Log/Pole/XLog	15		Beech	Low	5 - 10 feet	Sapling	
	Sugar Maple	4	Pole/Sapling	5						
	Black Cherry	4	Pole	5						
	Red Oak	5	Log/Pole	12	92					
	Red Maple	5	Pole	5						
54	42141 - Planted Deci	Mixed Pine iduous	, Mixed Sav	wtimber	Mediur	n 8.8 60	111-140	N/A		Jack pine appears to be in rows (or what is remaining of the rows). Could not find planting information on the pine but would guess that red pine may
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Specie	es Density	Avg. Height	Size	have not been planted here due to large kettle holes throughout the stand. Mostly jack pine in the upland and quaking aspen with a nice white pine
	White Pine	15	Log	15		Jack Pine	Medium	5 - 10 feet	Sapling	understory in the depressions. Scrubby appearance.
N	Northern Pin Oak	5	Pole/Log	9		Northern Pin Oak	Medium	5 - 10 feet	Sapling	and ottors, in the depression of data, appearance.
	Red Pine	5	Log/Pole	10	60	Black Cherry	Medium	Variable	Sapling	
	Quaking Aspen	30	Log	12	60	White Pine	High	Variable	Sapling	
	Jack Pine	45	Log	12	60	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub	
58	122 - Road	d/Parking Lo	ot	Nonsto	cked	3.2 0	Unspecified	No		County road ROW. Mt Tom Rd
400	3102	- Grass		Nonsto	cked	0.9 0	Unspecified			Gas Well Delta Oil Co Inc, State Elmer, B4-24 Permit #49317
401	3104 - I	Degraded		Nonsto	cked	1.1	Unspecified			Gas Well. Delta Oil Co Inc, State Elmer, C4-24. Permit #49316
402	3104 - I	Degraded		Nonsto	cked	1.1	Unspecified			Gas Well Delta Oil Co Inc, State Elmer, C3-23 Permit #50591
403	3104 - I	Degraded		Nonsto	cked	1.0	Unspecified			Gas well. Riverside Energy Michigan LLC, State Elmer, B1-23 Permit #56565
404	3104 - I	Degraded		Nonsto	cked	1.0	Unspecified			Gas Well. Riverside Energy Michigan LLC, State Elmer A2-23. Permit # 56166
405	3104 - I	Degraded		Nonsto	cked	1.2 Unspecified				Riverside Energy Michigan LLC, State Elmer 1-23 Permit #48433

Report 7 - Stands



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age BA Range	Managed Site	General Comments
406	3102 - Grass	Nonstocked	1.0	Unspecified		Delta Oil Co Inc, State Elmer A1-24 Permit #49319
407	3104 - Degraded	Nonstocked	1.3	Unspecified		Riverside Energy Michigan LLC, State Elmer, D1-13 Permit #57344
408	3104 - Degraded	Nonstocked	1.1	Unspecified		Riverside Energy Michigan LLC, State Elmer 12-13 Permit #48429
409	3102 - Grass	Nonstocked	1.0	Unspecified		Riverside Energy MI LLC, State Elmer 10-13 Permit #48430
410	3104 - Degraded	Nonstocked	1.1	Unspecified		GAS well, producing Breitburn, USA Elmer Clinton B4-13 Permit # 56018