

# **Compartment Review Presentation**

**Grayling Forest Management Unit** 

Compartment 72213 Entry Year 2022 Acreage: 915

**County Crawford** 

Management Area: Grayling Ice Contact

Revision Date: 2020-09-03

Stand Examiner: John St. Pierre

**Legal Description:** 

T28N-R03W, Sections 4, 5 and 6, Crawford County

#### **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 terrain is flat to gently rolling. The main soil type present within this compartment is Rubicon Sand. This soil type is classified as being excessively well drained and is common on outwash plains and stream terraces. There is little risk of both surface erosion and windthrow in this soil

series. Blue Lake Loamy Sand and Dawson –Loxley Peat are the other two soil types that are well represented within this compartment. Blue Lake Loamy Sand is classified as being well drained and is typical of moraine landforms. Within this soil type, erosion and windthrow possibilities are slight. Dawson-Loxley Peat is classified as being very poorly drained and is common on closed depressions on lake plains. The chance for erosion is negligible and wind throw possibility is high depending on exposure to

#### winds.

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

State ownership is interrupted within sections 4 and 5 by the Crawford-Otsego landfill. Active groundwater testing wells associated with the landfill are present in section 4. Private ownership is found on the northern and southern boundary of section 4, west of Sherman Rd. Currently, sections 4 and 5 house nine active well pad sites and one pump station facility. Interstate 75 and its associated right-of-way fence line dissects western portions of the compartment (section 5). Section 5 (west of I-75) accommodates an underground high-pressure gas pipeline corridor, above ground powerline corridors, N Roberts Rd and day use/public access to Horseshoe and Blue Gill Lakes. Privately owned parcels increase quite dramatical within section 6. Most of these parcels and homes are located on or near Horseshoe and Blue Gill Lakes.

#### **Unique Natural Features:**

The water bodies in the western portion of the compartment have groundwater flow influence into headwater tributaries of the Au Sable River. Bradford Creek is one of these tributaries and is located just west across Old-27. The Au Sable River is a designated wild and scenic river, it's also classified under the Natural Rivers Act. No other known unique natural features are currently present within this compartment.

## Archeological, Historical, and Cultural Features:

No known archeological, historical, or cultural features are present within this compartment.

#### **Special Management Designations or Considerations:**

No known special management designations or considerations are present within this compartment.

#### Watershed and Fisheries Considerations:

Blue Gill and Horseshoe Lakes lie in the western portion of the compartment. Each lake has a designated access site on it which are currently managed by Parks and Recreation Division. These lakes are noted for generally having good fishing opportunities.

#### Wildlife Habitat Considerations:

Wildlife utilization was commonly observed throughout the compartment. The major species observed during field data collection were; whitetail deer, wild turkey and ruffed grouse. There's a larger presence of raptor species near the landfill. Forest management in the compartment has provided suitable habitat for species that depend upon early and midsuccessional forest cover-types.

#### Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The closest active

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sand/gravel pit is just over three miles to the southwest. Sand & gravel potential appears to be good in the compartment. The compartment lies within Antrim Shale gas play. Most of the compartment is producing Antrim gas, and there is little potential for additional Antrim wells. The compartment is on the southern edge of the Guelph (Niagaran) reef trend. Multiple wells have been drilled in the compartment to test for reef reservoirs, and all were dry holes. There may be potential for future reef discoveries beneath compartment, but probability is low. Nearly all the State-owned mineral rights in the compartment are currently leased and held by production.

### **Vehicle Access:**

Access to the compartment is generally good yet some areas of section 5 can be more challenging to reach. N Sherman, Hartwick and N Petersen are the primary access roads for sections 4 and 5. From these roads extend a series of forest access routes leading to many of the gas wells located in sections 4 and 5. Gates restrict access to some state lands located near the landfill, requiring access be obtained by crossing state land from the south and/or the north. N Roberts Rd provides primary access into the portions of the compartment west of I-75 (sections 5 and 6). Forest access routes are limited in this area and 'on foot' travel is generally the most reliable mode of transportation.

#### **Survey Needs:**

Currently no survey needs.

#### **Recreational Facilities and Opportunities:**

Horseshoe and Blue Gill lakes and their associated access sites provide a great deal of recreational possibilities. There's ample opportunity for various forms of hunting. Leisurely walking, hiking and snowshoeing are activities that could be enjoyed within this compartment.

#### **Fire Protection:**

Wildland fire suppression for this compartment and surrounding area is provided by local VFD's and DNR resources based out of Grayling and Gaylord field offices.

#### **Additional Compartment Information:**

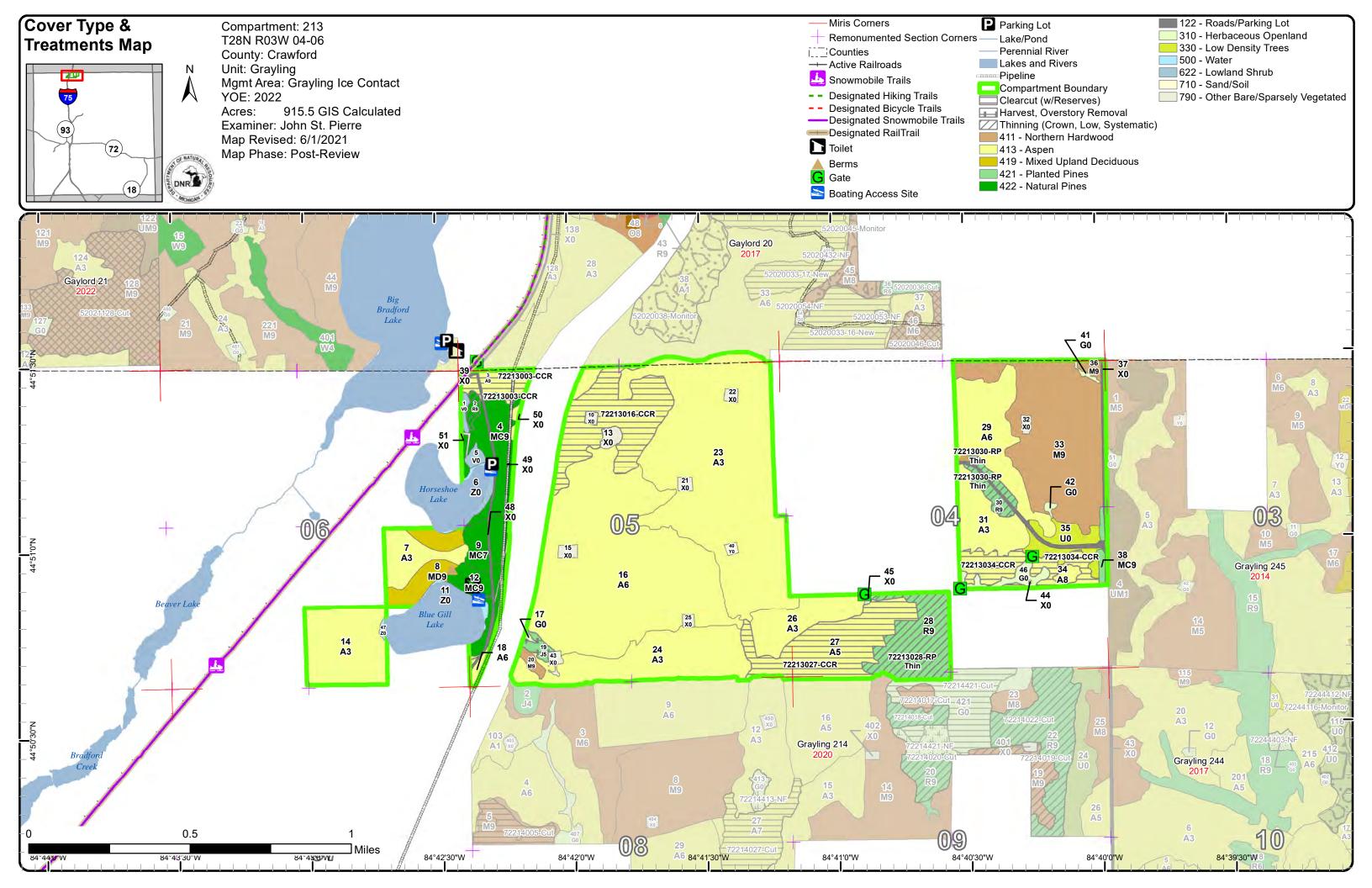
The following reports from the Inventory are attached:

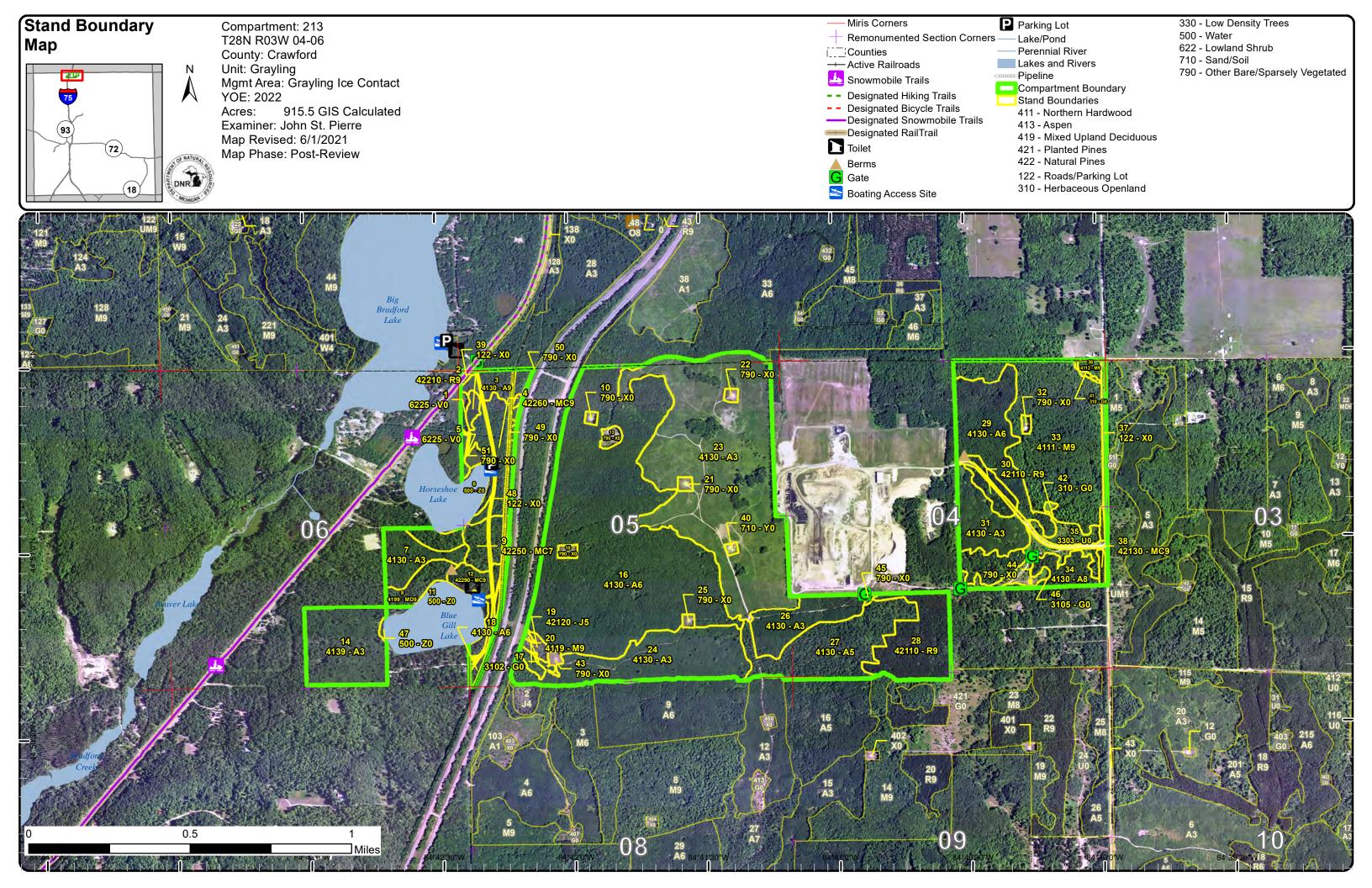
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

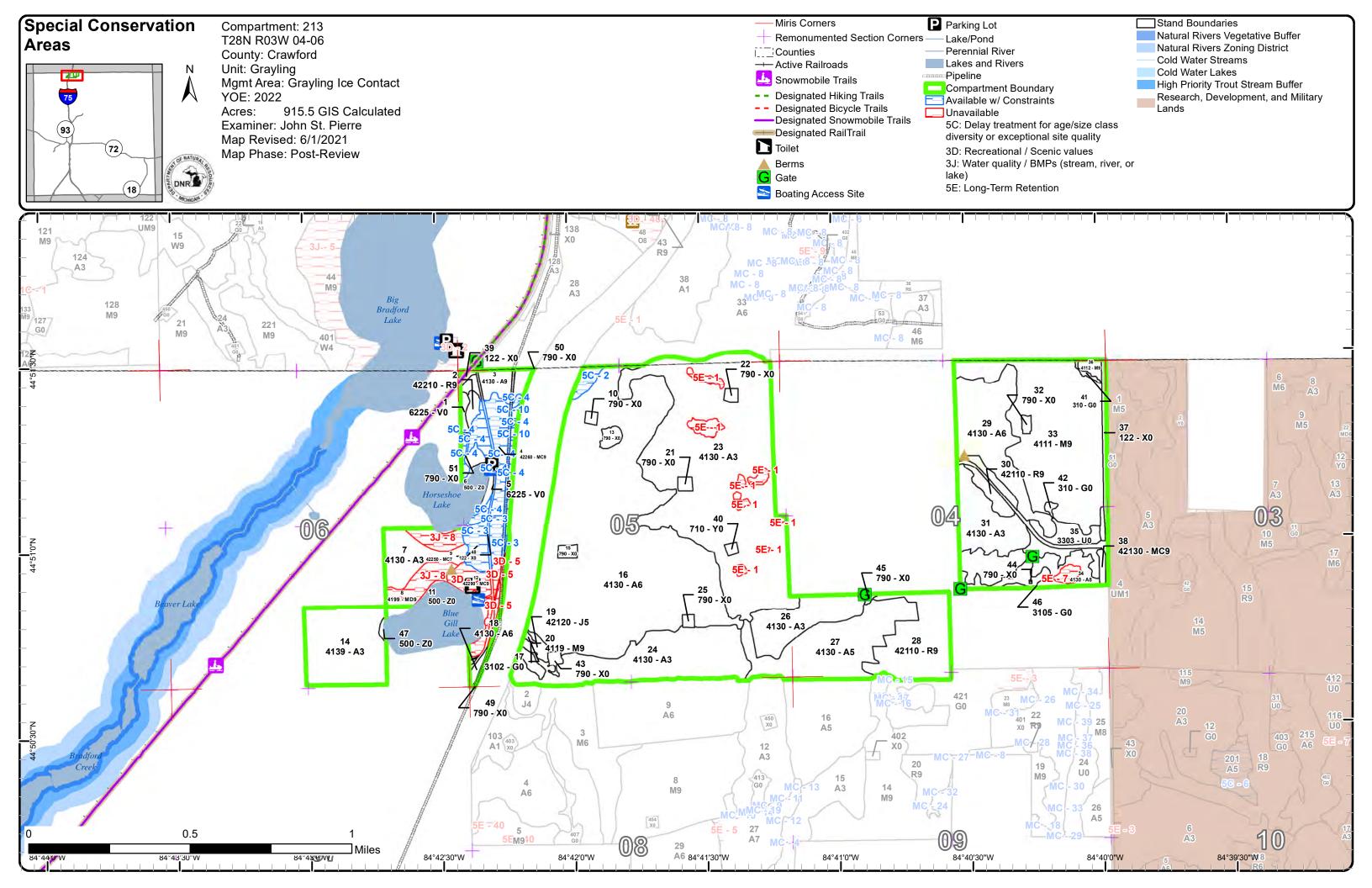
The following information is displayed, where pertinent, on the attached compartment maps:

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

Details on the road access system







Grayling Mgt. Unit

John St. Pierre: Examiner

DNR DNR

#### Age Class

			,	,	,	/	,	,	7	7	7	,	,	,	,	7	7	7	, ,
	Age.	KO C				3/\$		8/8					Z ZZ					\$ Ju	LOS LOS
Aspen	0	166	0	150	248	0	47	10	22	0	0	0	0	0	0	0	0	0	643
Bare/Sparsely Vegetated	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15
Natural Mixed Pines	0	0	0	0	0	0	0	21	23	0	0	0	0	0	0	0	0	0	44
Northern Hardwood	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	0	0	90
Planted Mixed Pines	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Red Pine	0	0	0	0	0	0	40	2	0	0	0	0	0	0	0	0	0	0	42
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Total	76	166	0	150	248	0	90	35	60	90	0	0	0	0	0	0	0	0	914



# **Report 2 – Treatment Summary**

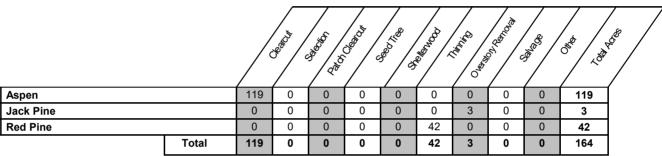
# Grayling Mgt. Unit Year of Entry: 2022

#### **Acres of Harvest**

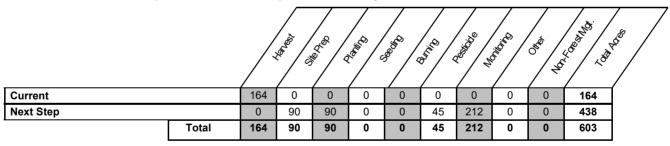
Compartment 213
Total Compartment Acres: 915

Commercial Harvest - 164
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

# **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Method**



S t a n d

Treatment Name Acres

Stand CoverType

е

Size Size

Stand BA Age Range Treatment Type Treatment Method

Cover Type Objective Age Structure Habitat Cut

#### **Approved Treatments:**

72213002-RP 2.2 42210 - Natural Sawtimber 66 171-Harvest Crown Thinning 42210 - Natural Even-Aged No Red Pine Thin Well 200 Red Pine

Prescription Crown Thin. Target 120BA

Specs:

- Maintain the diversity of this natural stand. Do not 'spec out' species for removal. In areas with a broad mixture of species, favor leaving the 'best tree in place'.

Retain relic xlog/super-canopy red pine
Focus marking red pine stems with defect
Some walk-through areas likely

Next Step Treatments:

Acceptable

Regen:

Other Sign and protect Roberts Rd during harvest operations.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

3 72213003- 9.3 4130 - Aspen Sawtimber 67 81-110 Harvest Clearcut with 413 - Aspen Even-Aged No CCR Well Retention

Prescription Clearcut w/Retention.- Capture some healthy canopy oak when establishing one or more small retention areas. Consider visual aesthetics during prep.- Leave red and white pine (per 9/1/10 pre-review management agreement)- Protect white pine and red oak regen in specs - Include drumming log, gas pipeline and powerline/utility specs

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any stocking level of aspen with components of red maple, red oak, pine and paper birch.

Regen:

Other Sign and protect Roberts Rd during harvest operations.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

16 72213016- 45.0 4130 - Aspen Poletimber 38 51-80 Harvest Clearcut with 413 - Aspen Even-Aged No CCR Well Retention

Prescription Clearcut w/Retention.

Specs: - Use stand topography/contour to creatively establish boundary lines near the I-75 corridor. Rx layer lines are meant to provide ~general

- Capture oak within some island retention
   Leave the incidental conifer component
- Use drumming log and gas well protection specs

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Any stocking level of aspen with components of red maple, red oak, paper birch, black cherry and pine.

Regen:

Other Treatment created to break-up the age class of this large aspen stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Compartment: 213

Year of Entry: 2022

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**Treatment** Stand BA **Treatment Treatment Cover Type** Acres Stand Size Age Habitat n Method Objective Structure Name CoverType Density Age Range Type Cut Ч 19 72213019-28 42120 - Planted Poletimber 51-80 Harvest Overstory 42260 - Natural Even-Aged

Jack Pine Medium Removal Removal Pine. Mixed Deciduous

Prescription Overstory Removal.

- Leave incidental white and red pine. To provide a current/future seed source and vertical structure/wildlife cover. Specs:

> - Protect white pine and oak saplings - Include gas well protection spec(s)

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

<u>Acceptable</u> Release of the current sub-canopy white pine saplings mixed with regenerating aspen, red maple, black cherry and jack pine. Any stocking Regen: level mixture of the aforementioned species is acceptable.

**Other** 

Package with adjacent red pine thinning sale(s).

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

72213027-45.2 4130 - Aspen Poletimber 55 51-80 Harvest Clearcut with 413 - Aspen Even-Aged No 27 CCR Medium Retention

Prescription Clearcut w/Retention.

- Consider placing some island/boundary excluded retention in the extreme west/northwest 'panhandle' area. It holds more white pine than Specs: remainder of stand

- Leave incidental red/white pine, spruce and fir. Residual conifer will provide current/future seed source and vertical structure/wildlife cover.

- Protect hawthorn/juneberrry shrubs and white pine saps

- Include drumming log and well pad protection spec(s)

SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Next Step Treatments: Monitoring, Artificial Regen(3yr); Planting, Replant; Monitoring, Natural Regen (Re-Inventory)

Acceptable - Any stocking level of aspen with minor components of maple, black cherry, paper birch and conifer species.

- If regen fails (unlikely), Grayling Wildlife Biologist supports planting this site to red pine. Regen:

Best access is south off Hartwick Rd, then travels through landfill property. The segment of road on landfill property is gated/usually locked. Other Comment: Contact the landfill manager prior to harvesting operations to facilitate possible access. Other access options are available.

Site Condition

Proposed Start Date: 10/1 /2021

72213028-RP 32.6 42110 - Planted Sawtimber 54 141-Harvest Crown Thinning 4211 - Planted Even-Aged No Thin Red Pine Well 170 Red Pine

Prescription Crown Thinning. Target 120BA

- Focus marking red pine stems with defect and some of the larger log sized stems

- Only mark canopy deciduous if it looks like they'll impede equipment mobility

- 'Walk through' areas likely in east/southeast, where RP was outcompeted

- Include gas well protection spec(s)

Next Step Treatments:

<u>Acceptable</u>

Regen:

Specs:

Best access is south off Hartwick Rd, then travels through landfill property. The segment of road on landfill property is gated/usually locked. Other 1 4 1 Contact the landfill manager prior to harvesting operations to facilitate possible access. Other access options are available. Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Stand

Size

Stand



Year of Entry: 2022 **Treatment Cover Type** Age Habitat

Compartment: 213

n Method Objective Structure Name CoverType Density Age Range Type Cut d 30 72213030-RP 7.5 42110 - Planted Sawtimber 171-Harvest Crown Thinning 4211 - Planted Even-Aged Red Pine Well Red Pine Thin 200

**Treatment** 

Prescription Crown Thinning. Target 120BA- Focus marking red pine stems with defect and some of the larger log sized stems- Only mark canopy deciduous if it looks like they'll impede equipment mobility- 'Walk through' areas likely in south polygon, where RP was outcompeted Specs:

BA

Next Step Treatments:

**Treatment** 

Acres

s

t а

<u>Acceptable</u> Regen:

Hartwick Rd is busy with truck traffic going to/from the Otsego-Crawford Co. landfill. Notify the landfill manager prior to the start of harvesting **Other** operations and post Hartwick Rd with caution signs. Comment:

Site Condition

Proposed Start Date: 10/1 /2021

72213034-197 4130 - Aspen Sawtimber 70 51-80 Harvest Clearcut with 413 - Aspen Even-Aged Nο 34 CCR Medium Retention

Prescription Clearcut w/Retention.

Specs: - A retention island has already been delineated around advanced sugar maple regen found in the east polygon. Establish this island during

- Leave incidental conifer (except any scotch pine) and oak - Protect hawthorn/juneberry shrubs and white pine saps

- Protect the water testing well head located along the secondary forest road (see OFS points)

- Use drumming log and gas well/pipeline protection specs

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any stocking level of aspen with components of red/sugar maple, black cherry, oak and pine.

Regen:

Other Hartwick Rd is busy with truck traffic going to/from the Otsego-Crawford Co. landfill. Notify the landfill manager prior to the start of harvesting operations and post Hartwick Rd with caution signs. Comment:

Site Condition

Proposed Start Date: 10/1 /2021

**Total Treatment** 164.3 Acreage Proposed:

**Grayling Mgt. Unit** 

John St. Pierre : Examiner

Compartment: 213
Year of Entry: 2022

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Cond	ditions
Acres	Available	With Condition	Not Available		5C	3D	3J	5E
643	629	4	11	Aspen	4			11
17	17	0	0	Bare/Sparsely Vegetated				
5	5	0	0	Bog				
7	7	0	0	Herbaceous Openland				
3	3	0	0	Jack Pine				
12	12	0	0	Low-Density Trees				
15	0	0	15	Mixed Upland Deciduous			15	
44	0	31	12	Natural Mixed Pines	31	12	0	
90	90	0	0	Northern Hardwood				
2	2	0	0	Planted Mixed Pines				
42	42	0	0	Red Pine				
1	1	0	0	Sand, Soil				
15	15	0	0	Urban				
19	19	0	0	Water			0	
915	842	35	38	Total Forested Acres	35	12	15	11
	92%	4%	4%	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	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
(		this small portion of Stand 16 ccurring within Stand 16, to se					ently excluded from the

# **Report 4 – Site Conditions**

**Grayling Mgt. Unit** 

Compartment: 213 Year of Entry: 2022 John St. Pierre: Examiner

	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Harvested mid-00's continue to delay/h	s, left white pine and oak. Age o old.	f unders	stocked canopy residuals	from harvest are tripping the	'meets criteria' button. R	egenerating nicely,
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
	red pine are preser	mpasses Stand 4. A public boa nt, most to east of Horseshoe La possible management ideas.					
5	Unavailable	3D: Recreational / Scenic values	12	5B: Maintain for regeneration purposes	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified
	species, some beir	encompasses Stand 12. Within ng difficult to regenerate (hemlo nents related to the day use area	ck, natu				
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Pre-designated isla 20ft or greater (son	and LTR for the timber sale occu ne less than 10ft).	urring wi	ithin this stand. Captures	an area of advanced sub-ca	nopy hard maple regenera	ation. Many stems 10-
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	3D: Recreational / Scenic values	5B: Maintain for regeneration purposes	Unspecified	Unspecified
0							

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# **Report 4 – Site Conditions**

Grayling Mgt. Unit

John St. Pierre : Examiner Year of Entry: 2022

Available 5C: Delay treatment for 1 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Scenario Scenar

Compartment: 213

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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: 213
Year of Entry 2022



# Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish specing year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated fo include the 5,847 acre Forest Fire Experiment Station, the 12,00 Area, the Beaver Islands Archipelago Wildlife Research Area (th High and Hog Islands, all state owned land on Beaver, South Fo Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Re Nursery, and over 144,000 acres of Military Lands.	0 acre Houghton Lake Wildlife Research at includes most of Garden Island, all of x and North Fox Islands), the Cusino
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems ir influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spapproved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table located folder.	Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts

										Year of Entry: 2022
Stand	l Level 4 C	over Type	s S	ize De	nsity	Acres Stand Age B	A Range	Managed S	Site	General Comments
1	622	5 - Bog	I	Nonsto	cked	1.7 U	nspecified	No		Some scattered white pine, mainly in south. Leatherleaf is abundant with thick tag alder populating the perimeter.
						Sub-Canopy Species	Density	Avg. Height	Size	trick tag alder populating the perimeter.
						White Pine	Low		Sapling	
2	42210 - Na	tural Red I	Pine Sa	awtimb	er Wel	I 2.2 66	171-200	N/A		Small natural red pine stand, RP is fairly good quality, variable diameters
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Northern half had a lower stocking of RP and a greater mix of deciduous Entire east boundary features a broad mixture of species (mixing
	Red Maple	5	Pole/Log	8		White Pine	Medium	Variable	Sapling	w/Stands 3/4). Stocking of nearly pure RP in south half and west
	Quaking Aspen	2	Pole/Log	9		Red Oak	Medium	Variable	Sapling	boundary near bog. Older relic xlog RP scattered throughout. BTA
	Red Oak	2	Log/Pole	12		Red Maple	Medium	>20 feet	Sapling	common until core RP areas, RM sap/pole stump sprouts present (from likely past decid removal), single stem logs too. Some WP near bog and
	White Pine	2	Log/Pole	12		Beech	Low	5 - 10 feet	Sapling	other locations, trace PB.
	Red Pine	74	Log/Pole/XLog	14	66	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub	·
	Bigtooth Aspen	15	Log/Pole	11		Witch Hazel	Low	5 - 10 feet	Tall Shrub	
3	4130	- Aspen	Sa	awtimb	er Wel	l 10.2 67	81-110	N/A		Variable aspen stem sizes throughout. Poles mixed w/log and vice versal
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Enough logs across all species to call that size dominant yet not fully stocked with sawtimber. Consistent canopy WP/RP component,
	Red Maple	6	Pole/Log	9		White Pine	Medium	10 - 20 feet	Sapling	generally picked up 10BA of one or the other during plot swings (2-
	Bigtooth Aspen	62	Log/Pole	11	67	Witch Hazel	Medium	5 - 10 feet	Tall Shrub	swings had 10BA of both). Most WP hovering near larger pole or small
	White Pine	8	Log/Pole	11		Black Cherry	Low	5 - 10 feet	Sapling	log sizes. RP generally larger, some xlogs. Scattered PB in canopy. Somewhat consistent sub-can mix of WP, RO and RM.
	Red Pine	8	Log/XLog/Pole	14		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub	
	Quaking Aspen	8	Log/Pole	10		Red Maple	Medium	Variable	Sapling	
	Red Oak	6	Log/Pole	11		Red Oak	Medium	10 - 20 feet	Sapling	
	Paper Birch	2	Pole	9				1		
4	42260 - Natural P	ine, Mixed	Deciduous Sa	awtimb	er Wel	l 20.7 68	111-140	N/A		Mixed pine w/areas stronger to deciduous. WP prevalent but more
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	presence in southern areas, radiating out from Horseshoe Lake. Quite a few legacy WP east of lake (some +30"). RP generally scattered but
	Red Maple	16	Pole/Log	8		Red Maple	Medium	Variable	Sapling	present in a few prominent clumps in center and north. Aspen healthy,
	Red Oak	6	Log/XLog/Pole	15		White Pine	Medium	10 - 20 feet	Sapling	ranged larger pole to smaller log sizes, more common in north. RM
	Paper Birch	5	Pole/Log	9		Witch Hazel	Low	5 - 10 feet	Tall Shrub	common, PB present and scattered RO (usually L/XL). Areas of good sub-can WP regen, RO too. Other areas heavier to RM. Numerous utilit
	Quaking Aspen	3	Log/Pole	12		Red Oak	Medium	Variable	Sapling	corridors present and some variation in stocking/BA density. Areas had
	White Pine	40	Log/Pole/XLog	15	68	Beech	Low	Variable	Sapling	signs of a past deciduous removal.
	Red Pine	20	Log/XLog/Pole	14		Red Pine	Trace	10 - 20 feet	Sapling	
	Bigtooth Aspen	10	Log/Pole	11		White Pine	Low	< 5 feet	Seeding	
			-			Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub	
						Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub	
5	622	5 - Bog	ı	Nonsto	cked	3.6 U	nspecified	No		Bog that may be a part of the lake during times of high water. White pin larch and some spruce present within stand area. Some wildlife use throughout. Leatherleaf present in relatively high/uniform coverage. Tag alder on perimeter.
6	500	- Water	1	Nonsto	cked	7.4 U	nspecified	No		Southern and eastern areas of Horseshoe Lake. Includes shoreline are populated with lowland shrubs and some tree species.



Stan	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age I	BA Range	Managed 9	Site	General Comments
7	4130	- Aspen		Sapling	Well	15.4	27	1-50	N/A		Sale closed '93 (Between the Lakes), regenerating well. Left some RO,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	WP and RP. Red oak poles - xlog are scattered, (MiFI wouldn't allow R0 poles to be represented in canopy), regenerating single stem RO saps
	Red Oak	6	Sapling	3		Wh	nite Pine	Medium	5 - 10 feet	Sapling	not uncommon too. Residual heavier in a few areas (mainly in west),
	Paper Birch	4	Sapling/Pole	3		Re	d Maple	Medium	5 - 10 feet	Sapling	hasn't affected success of regen. Some sub-can 'from a seed source'
	Quaking Aspen	16	Sapling/Pole	4	27	E	Beech	Low	10 - 20 feet	Sapling	WP hanging out at 5-10ft. In areas, aspen and some of the other deciduous in midst of conversion to reliable pole sizes. Most other area
	White Pine	4	Log	14	79	Wit	ch Hazel	Medium	5 - 10 feet	Tall Shrub	still larger sap sized (3-4+"). Conversion to A6 likely by '30/'32.
	Red Maple	10	Sapling/Pole	3						-	
	Black Cherry	4	Sapling	3							
	Red Oak	4	Log/XLog	17							
	Red Pine	2	Log	15							
	Bigtooth Aspen	50	Sapling/Pole	4	27						
8	4199 - Other Mixe	ed Upland D	eciduous S	awtimbe	er Well	14.7	79	81-110	N/A		Stand is result of leaving a ~250ft visual along lakes during '93 cut. So
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	polygon had less canopy closure than majority of north poly (50-75 vs 7 100). BA swings ended up being quite similar between the two (south:
	Red Maple	20	Log/Pole	11			nite Pine	Medium	10 - 20 feet	Sapling	120,60,50 north: 140,20,80). Low end of 75-100 canopy closure was
	Red Oak	30	Log/Pole	12	79	Servicebe	erry (Juneberry	/) Medium	5 - 10 feet	Sapling	common. Canopy RO ranged from pole to legacy (some quite likely old
	Paper Birch	5	Pole/Sapling	7		R	ed Oak	High	Variable	Sapling	than 78yrs). Both ends had medium to high RO regen (seedling to 20ff Decent WP regen too. Most stems looked quite healthy yet some decl
	Quaking Aspen	2	Log	13		Re	ed Pine	Low	Variable	Sapling	across aspen stems.
	White Pine	16	Log/Pole	14	79	Re	d Maple	Low	Variable	Sapling	'
	Bigtooth Aspen	24	Log/Pole	15		Bigto	oth Aspen	Low	>20 feet	Sapling	
	Red Pine	2	Log	16		Iro	onwood	Low	< 5 feet	Seeding	
	Beech	1	Log	11		Strip	ed Maple	Low	5 - 10 feet	Sapling	
9	42250 -	· Pine, Oak	s	awtimbe	r Poor	10.7	79	1-50	N/A		Cut mid-00's, left WP and RO. Residuals acting as a good seed source
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	(saw reliable WP seeds/saps and some RO regen at variable heights), vertical structure and visual for this higher use area. Most aspen regen
	Red Oak	40	Log/Pole/XLog	12		Wh	nite Pine	Medium	Variable	Sapling	ranged +-2-3". Other deciduous present was slightly smaller (DBH) on
	White Pine	60	Log/Pole/XLog	14	79	Wh	nite Pine	Medium	< 5 feet	Seeding	average. Regen looks like it's doing just fine. Didn't observe decline in
						Re	ed Pine	Trace	5 - 10 feet	Sapling	any of the residual RO or WP, looked quite healthy. My BA swings ranged 0-60, saplings are the dominant canopy in areas.
						Hazeln	ut (Beaked)	Medium	< 5 feet	Tall Shrub	)
						Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	
						Bigto	oth Aspen	Full	>20 feet	Sapling	
						Quak	ing Aspen	High	>20 feet	Sapling	
							d Maple	Medium	10 - 20 feet	Sapling	
						R	ed Oak	Low	Variable	Sapling	
10	790 - Other Bare	/Sparsely V	egetated	Nonsto	cked	0.9	ι	Jnspecified			Gas well, Riverside Energy, STATE MAPLE FOREST #A2-5.
11	500	- Water		Nonsto	cked	10.6	l	Jnspecified	No		Northeast portion of blue gill lake. Day use park/boat launch area locat within Stand 12. Stand includes some intermittent wet/dry shoreline are populated with lowland shrub species as well as a few tree species (sa some paper birch).

7 - Stands Compartment: 213
Year of Entry: 2022



and	Level 4 Co			ize Den		Acres Stand Age BA	- 3-	Managed S	-	General Comments
2	42290 - Natu	ıral Mixed	Pine Sa	wtimbe		12.3 79	111-140	N/A		Nice mix of WP/RP w/components of deciduous (RO, aspen, RM).  Extreme south holds a nice pocket of canopy hemlock w/good hemloc
(	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	regen too. Density and sizes vary upon location. The various corridor
	Red Maple	5	Pole/Log	9		White Pine	High	Variable	Sapling	(Blue Gill Lake, Roberts Rd, powerline, gas line, and I-75) that dissect
(	Quaking Aspen	2	Pole/Log	8		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub	this stand are all playing a role in the variations. The higher end of 11 140BA range is a good fit (BA's=230,180,90,110,90,160. 143BA avg)
	White Pine	40	Log/Pole/XLog	12	79	Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub	Xlog examples of WP, RP, RO and hemlock generally common (saw
	Red Pine	36	Log/Pole/XLog	14	65	Ironwood	Low	Variable	Sapling	legacy WP/RO). Good WP, RP, RO numbers in sub-canopy. Overall
	Hemlock	3	Log/XLog/Pole	17		Red Oak	Medium	Variable	Sapling	health looked pretty good.
	Paper Birch	2	Log/Pole	10		Black Cherry	Low	5 - 10 feet	Sapling	
E	Bigtooth Aspen	7	Log/Pole	14		Red Maple	Low	Variable	Sapling	
	Red Oak	5	Log/Pole/XLog	12		Red Pine	Medium	Variable	Sapling	
						Paper Birch	Medium	Variable	Sapling	
						Hemlock	Low	Variable	Sapling	
						Beech	Low	5 - 10 feet	Sapling	
						Balsam Fir	Trace	< 5 feet	Seeding	
 3	790 - Other Bare/	Sparsely \	/egetated N	Nonstoc	ked	White Pine	Trace Medium nspecified	< 5 feet < 5 feet No	Seeding Seeding	around edges. Deep snow when visited. Site likely held oil/gas surfa
						White Pine 2.2 Ur	Medium	< 5 feet		Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surfacequipment in the past.
4	4139 - Aspen, I	Mixed Dec	siduous S	Sapling \	Well	White Pine  2.2 Ur  37.9 23	Medium  nspecified	< 5 feet  No  N/A	Seeding	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are
4	4139 - Aspen, I	Mixed Dec	ciduous S r Size Class	Sapling \	Well	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species	Medium  nspecified  1-50  Density	< 5 feet  No  N/A  Avg. Height	Seeding	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RO
4	4139 - Aspen, I Canopy Species Red Oak	Mixed Dec	ciduous S r Size Class Sapling/Pole/Log	Sapling V	Well	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species  White Pine	Medium  1-50  Density  Medium	< 5 feet  No  N/A  Avg. Height  Variable	Seeding  Size  Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RO residuals. WP saps more numerous where seed source is present. L
4	4139 - Aspen, I Canopy Species Red Oak Quaking Aspen	Mixed Dec	ciduous S r Size Class Sapling/Pole/Log Sapling/Pole	Sapling V	Well	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species  White Pine  Beech	Medium  1-50  Density  Medium  Low	< 5 feet  No  N/A  Avg. Height  Variable  5 - 10 feet	Size Sapling Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RO residuals. WP saps more numerous where seed source is present. La 1/2-1chain buffer along Blue Gill Lake. Buffer greater in northeast no
4	4139 - Aspen, I Canopy Species Red Oak Quaking Aspen White Pine	Mixed Dec <b>% Cove</b> 6 14 12	ciduous S r Size Class Sapling/Pole/Log Sapling/Pole Log/XLog/Pole	DBH 3 4 3 14	Well Age	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species  White Pine  Beech  Ironwood	1-50 Density Medium Low Low	< 5 feet  No  N/A  Avg. Height  Variable  5 - 10 feet  5 - 10 feet	Size Sapling Sapling Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RO residuals. WP saps more numerous where seed source is present. La1/2-1chain buffer along Blue Gill Lake. Buffer greater in northeast no PVT (heavy WP component). Some PVT 'influence' from sub-division east. There's a yellow painted, flagging marked walking path that beg
4	4139 - Aspen, I Canopy Species Red Oak Quaking Aspen White Pine Red Pine	Mixed Dec  **Cove** 6	ciduous S r Size Class Sapling/Pole/Log Sapling/Pole Log/XLog/Pole Log/Pole/XLog	DBH 3 4 3 14 14 14	Well	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species  White Pine  Beech  Ironwood  Red Pine	1-50 Density Medium Low Low Trace	No  N/A  Avg. Height  Variable  5 - 10 feet  5 - 10 feet  10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RC residuals. WP saps more numerous where seed source is present. La1/2-1chain buffer along Blue Gill Lake. Buffer greater in northeast no PVT (heavy WP component). Some PVT 'influence' from sub-division east. There's a yellow painted, flagging marked walking path that beg
	4139 - Aspen, I Canopy Species Red Oak Quaking Aspen White Pine Red Pine Jack Pine	Mixed Dec  % Cove  6 14 12 3 2	siduous S r Size Class Sapling/Pole/Log Sapling/Pole Log/XLog/Pole Log/Pole/XLog Pole/Log	DBH 4 3 14 14 14 8	Well Age	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species White Pine Beech Ironwood Red Pine Serviceberry (Juneberry)	1-50  Density  Medium  Low Low Trace Medium	No  N/A  N/A  Avg. Height  Variable  5 - 10 feet  5 - 10 feet  10 - 20 feet  >20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RC residuals. WP saps more numerous where seed source is present. La1/2-1chain buffer along Blue Gill Lake. Buffer greater in northeast new Tyon (heavy WP component). Some PVT 'influence' from sub-division east. There's a yellow painted, flagging marked walking path that begwhere Greenacres Dr. dead ends. Travels west through center of sta
4	4139 - Aspen, I Canopy Species Red Oak Quaking Aspen White Pine Red Pine Jack Pine Balsam Fir	Mixed Dec  **Cove** 6	siduous S r Size Class Sapling/Pole/Log Sapling/Pole Log/XLog/Pole Log/Pole/XLog Pole/Log Pole/Log	DBH 3 4 3 14 14 8 9	Well Age	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species  White Pine  Beech  Ironwood  Red Pine	1-50 Density Medium Low Low Trace	No  N/A  Avg. Height  Variable  5 - 10 feet  5 - 10 feet  10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RC residuals. WP saps more numerous where seed source is present. La1/2-1chain buffer along Blue Gill Lake. Buffer greater in northeast new Tyon (heavy WP component). Some PVT 'influence' from sub-division east. There's a yellow painted, flagging marked walking path that begwhere Greenacres Dr. dead ends. Travels west through center of sta
4	4139 - Aspen, I Canopy Species Red Oak Quaking Aspen White Pine Red Pine Jack Pine Balsam Fir Hemlock	Mixed Dec  **Cove 6 14 12 3 2 1	ciduous S r Size Class Sapling/Pole/Log Sapling/Pole Log/XLog/Pole Log/Pole/XLog Pole/Log Pole/Log Log/Pole	DBH 3 4 3 14 14 8 9 12	Well Age	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species White Pine Beech Ironwood Red Pine Serviceberry (Juneberry)	1-50  Density  Medium  Low Low Trace Medium	No  N/A  N/A  Avg. Height  Variable  5 - 10 feet  5 - 10 feet  10 - 20 feet  >20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RC residuals. WP saps more numerous where seed source is present. Leat/2-1 chain buffer along Blue Gill Lake. Buffer greater in northeast new PVT (heavy WP component). Some PVT 'influence' from sub-division east. There's a yellow painted, flagging marked walking path that begwhere Greenacres Dr. dead ends. Travels west through center of states.
<b>4</b>	4139 - Aspen, I Canopy Species Red Oak Quaking Aspen White Pine Red Pine Jack Pine Balsam Fir Hemlock Red Maple	Mixed Dec  **Cove** 6	ciduous S r Size Class Sapling/Pole/Log Sapling/Pole Log/XLog/Pole Log/Pole/XLog Pole/Log Pole/Log Log/Pole Sapling/Pole/Log	DBH 3 4 3 14 14 8 9 12 3	Well Age	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species White Pine Beech Ironwood Red Pine Serviceberry (Juneberry)	1-50  Density  Medium  Low Low Trace Medium	No  N/A  N/A  Avg. Height  Variable  5 - 10 feet  5 - 10 feet  10 - 20 feet  >20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RC residuals. WP saps more numerous where seed source is present. La1/2-1chain buffer along Blue Gill Lake. Buffer greater in northeast new Tyon (heavy WP component). Some PVT 'influence' from sub-division east. There's a yellow painted, flagging marked walking path that begwhere Greenacres Dr. dead ends. Travels west through center of sta
<b>4</b>	4139 - Aspen, I Canopy Species Red Oak Quaking Aspen White Pine Red Pine Jack Pine Balsam Fir Hemlock Red Maple Black Cherry	Mixed Dec  **Cove 6	ciduous S r Size Class Sapling/Pole/Log Sapling/Pole Log/XLog/Pole Log/Pole/Log Pole/Log Pole/Log Log/Pole Sapling/Pole/Log Sapling	DBH 3 4 3 14 14 8 9 12 3 3 2	Well Age	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species White Pine Beech Ironwood Red Pine Serviceberry (Juneberry)	1-50  Density  Medium  Low Low Trace Medium	No  N/A  N/A  Avg. Height  Variable  5 - 10 feet  5 - 10 feet  10 - 20 feet  >20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RO residuals. WP saps more numerous where seed source is present. La1/2-1chain buffer along Blue Gill Lake. Buffer greater in northeast ne PVT (heavy WP component). Some PVT 'influence' from sub-division east. There's a yellow painted, flagging marked walking path that begwhere Greenacres Dr. dead ends. Travels west through center of sta
(	4139 - Aspen, I Canopy Species Red Oak Quaking Aspen White Pine Red Pine Jack Pine Balsam Fir Hemlock Red Maple	Mixed Dec  **Cove** 6	ciduous S r Size Class Sapling/Pole/Log Sapling/Pole Log/XLog/Pole Log/Pole/XLog Pole/Log Pole/Log Log/Pole Sapling/Pole/Log	DBH 3 4 3 14 14 8 9 12 3	Well Age	White Pine  2.2 Ur  37.9 23  Sub-Canopy Species White Pine Beech Ironwood Red Pine Serviceberry (Juneberry)	1-50  Density  Medium  Low Low Trace Medium	No  N/A  N/A  Avg. Height  Variable  5 - 10 feet  5 - 10 feet  10 - 20 feet  >20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling	Larger opening (no gas wells present) with some vegetation creeping around edges. Deep snow when visited. Site likely held oil/gas surface equipment in the past.  Harvested '98 (Isolated Aspen) out of YOE. Left pine, oak and a few Aspen/some other deciduous regen doing well, most stems 3-4". Are of heavier residual, almost always WP (some Legacy). Not many RO residuals. WP saps more numerous where seed source is present. Left a1/2-1 chain buffer along Blue Gill Lake. Buffer greater in northeast neft PVT (heavy WP component). Some PVT 'influence' from sub-division east. There's a yellow painted, flagging marked walking path that begwhere Greenacres Dr. dead ends. Travels west through center of states.

DNR DNR

Stand	d Level 4 C	Level 4 Cover Type Size Densit		ilisity	Acres Stand Age I	SA Kaliye	Managed S	Site	General Comments	
16	4130	- Aspen	Po	letimb	er Well	210.3 38	51-80	N/A		SEE DRAFT NOTES regarding '32YOE management strategy for this
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	stand. Discussed during pre-review on 6/18/20. HISTORY: ~North of Stand 15 (X0) had an aspen removal in '72 (~68ac)
	Red Maple	8	Pole/Sapling	7		Red Oak	Low	>20 feet	Sapling	In '73 the residual was clearcut (except some pine, cut stems left as
	Red Oak	8	Pole/Log/XLog	9		White Pine	Low	Variable	Sapling	food/habitat). ~South of Stand 15 was clearcut (~109ac) in '82. There
	Quaking Aspen	12	Pole/Sap/Log	7	48	Red Maple	High	>20 feet	Sapling	was a younger horseshoe shaped area of A3 that was left in the center of the '82 cut. Found numerous TCR's from the 60's-70's for small/some
	White Pine	6	Log/Pole/XLog	13	66	Beech	Low	5 - 10 feet	Sapling	larger sales, appears some were cut/some weren't.
	Red Pine	2	Log/Pole	11		Sugar Maple	Low	>20 feet	Sapling	VARIABLE stem ages. Southern 1/4-1/3 tended to hold the smaller
	Bigtooth Aspen	60	Pole/Sap/Log	7	38	Black Cherry	Low	Variable	Sapling	DBH/less merch aspen (S/P, P/S). Still held pockets of merch. Average DBH (and merchantability) tended to increase (or hold steady) throughout
	Paper Birch	3	Pole/Sapling	6		Serviceberry (Juneberry	) Low	10 - 20 feet	Sapling	remainder of stand. Some aspen stems converted to small log sizes.
	Beech	1	Log/Pole	11		Beech	Low	< 5 feet	Seeding	BTA dominant, QA a common companion. NE holds a small area
					·	Red Oak	Low	< 5 feet	Seeding	stronger to NHWD species. WP component heaviest/radiates out
						Witch Hazel	High	5 - 10 feet	Tall Shruk	from/around gas well Stand 15 (legacy WP observed). More WP saps present there. WP much less prevalent/more scattered outside that area
										A second age class of L/XL (older) multi/single stem RO present yet very limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen
17	3102	- Grass	N	Nonsto	ocked	0.4 l	Inspecified	No		limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from
17		- Grass - Aspen			ocked er Well		Unspecified 51-80	No N/A		limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline
			Po	letimb			51-80		Size	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size
	4130	- Aspen	Po	letimb	er Well	1.6 59	51-80	N/A	Size Sapling	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline
18	4130 Canopy Species	- Aspen % Cover	Pol	letimb DBH	er Well	1.6 59  Sub-Canopy Species	51-80  Density	N/A Avg. Height		limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size structure(s). My eyes saw a 50/50 mix of poles and logs. BA's (and DBH's) higher within the narrrow I-75 ROW strip which is excluded (and now deleted) from this stand by the I-75 ROW fence. Remainder of standard countries are successful to the standard contries the stand
18	4130 Canopy Species Red Maple	- Aspen <b>% Cover</b> 10	Pole Size Class Log/Pole	letimb DBH	er Well	1.6 59  Sub-Canopy Species  Beech	51-80  Density  Low	N/A  Avg. Height  Variable	Sapling	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size structure(s). My eyes saw a 50/50 mix of poles and logs. BA's (and DBH's) higher within the narrrow I-75 ROW strip which is excluded (and now deleted) from this stand by the I-75 ROW fence. Remainder of standard was running ~50-80BA. Some decent hemlock and red oak regen, some
18	4130 Canopy Species Red Maple Quaking Aspen	- Aspen  **Cover* 10 5	Po Size Class Log/Pole Pole/Log	DBH 11	er Well	1.6 59  Sub-Canopy Species  Beech  White Pine	51-80  Density  Low  Medium	N/A  Avg. Height  Variable  Variable	Sapling Sapling	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size structure(s). My eyes saw a 50/50 mix of poles and logs. BA's (and DBH's) higher within the narrrow I-75 ROW strip which is excluded (and now deleted) from this stand by the I-75 ROW fence. Remainder of standard strupping 250.80RA. Some decent hemlock and red coak regen some
18	4130 Canopy Species Red Maple Quaking Aspen White Pine	- Aspen  **Cover* 10 5 6	Pole/Log Log/Pole	<b>DBH</b> 11 9 11	er Well	1.6 59  Sub-Canopy Species  Beech  White Pine  Witch Hazel	51-80  Density  Low  Medium  Medium	N/A  Avg. Height  Variable  Variable  5 - 10 feet	Sapling Sapling Tall Shrub	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size structure(s). My eyes saw a 50/50 mix of poles and logs. BA's (and DBH's) higher within the narrrow I-75 ROW strip which is excluded (and now deleted) from this stand by the I-75 ROW fence. Remainder of standard was running ~50-80BA. Some decent hemlock and red oak regen, some
18	4130 Canopy Species Red Maple Quaking Aspen White Pine Hemlock	- Aspen  **Cover  10  5  6  6	Pole/Log Log/Pole Log/Pole Log/Pole/Log	DBH 11 9 11 14	er Well	1.6 59  Sub-Canopy Species  Beech  White Pine  Witch Hazel  Bigtooth Aspen	51-80  Density  Low  Medium  Medium  Low	N/A  Avg. Height  Variable  Variable  5 - 10 feet  Variable	Sapling Sapling Tall Shrub Sapling	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size structure(s). My eyes saw a 50/50 mix of poles and logs. BA's (and DBH's) higher within the narrrow I-75 ROW strip which is excluded (and now deleted) from this stand by the I-75 ROW fence. Remainder of standard was running ~50-80BA. Some decent hemlock and red oak regen, some
18	4130 Canopy Species Red Maple Quaking Aspen White Pine Hemlock Bigtooth Aspen	- Aspen  **Cover* 10 5 6 6 6 65	Pole/Log Log/Pole Log/Pole/XLog Log/Pole/XLog	DBH 11 9 11 14 11	er Well	1.6 59  Sub-Canopy Species  Beech  White Pine  Witch Hazel  Bigtooth Aspen  Hemlock	51-80  Density  Low  Medium  Medium  Low  Medium	N/A  Avg. Height  Variable  Variable  5 - 10 feet  Variable  10 - 20 feet	Sapling Sapling Tall Shrub Sapling Sapling	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size structure(s). My eyes saw a 50/50 mix of poles and logs. BA's (and DBH's) higher within the narrrow I-75 ROW strip which is excluded (and now deleted) from this stand by the I-75 ROW fence. Remainder of standard was running ~50-80BA. Some decent hemlock and red oak regen, some
18	4130  Canopy Species  Red Maple  Quaking Aspen  White Pine  Hemlock  Bigtooth Aspen  Beech	- Aspen  **Cover* 10 5 6 6 65 2	Pole/Log Log/Pole Log/Pole/Log Log/Pole Log/Pole/XLog Log/Pole Log/Pole	DBH 11 9 11 14 11	er Well	1.6 59  Sub-Canopy Species Beech White Pine Witch Hazel Bigtooth Aspen Hemlock Sugar Maple	51-80  Density  Low  Medium  Medium  Low  Medium  Low	N/A  Avg. Height  Variable  Variable  5 - 10 feet  Variable  10 - 20 feet  10 - 20 feet	Sapling Sapling Tall Shrub Sapling Sapling Sapling	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size structure(s). My eyes saw a 50/50 mix of poles and logs. BA's (and DBH's) higher within the narrrow I-75 ROW strip which is excluded (and now deleted) from this stand by the I-75 ROW fence. Remainder of standard was running ~50-80BA. Some decent hemlock and red oak regen, some
18	4130 Canopy Species Red Maple Quaking Aspen White Pine Hemlock Bigtooth Aspen Beech Red Oak	- Aspen  **Cover   10   5   6   6   6   6   5   2   4	Pole/Sap/Log Pole/Sap/Log Pole/Sap/Log	DBH 11 9 11 14 11 11 7	er Well	1.6 59  Sub-Canopy Species Beech White Pine Witch Hazel Bigtooth Aspen Hemlock Sugar Maple Ironwood	51-80  Density  Low  Medium  Medium  Low  Medium  Low  Medium  Low  Low	N/A  Avg. Height  Variable  Variable  5 - 10 feet  Variable  10 - 20 feet  10 - 20 feet  Variable	Sapling Sapling Tall Shrub Sapling Sapling Sapling Sapling Sapling	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size structure(s). My eyes saw a 50/50 mix of poles and logs. BA's (and DBH's) higher within the narrrow I-75 ROW strip which is excluded (and now deleted) from this stand by the I-75 ROW fence. Remainder of standard was running ~50-80BA. Some decent hemlock and red oak regen, some
18	4130 Canopy Species Red Maple Quaking Aspen White Pine Hemlock Bigtooth Aspen Beech Red Oak	- Aspen  **Cover   10   5   6   6   6   6   5   2   4	Pole/Sap/Log Pole/Sap/Log Pole/Sap/Log	DBH 11 9 11 14 11 11 7	er Well	1.6 59  Sub-Canopy Species  Beech  White Pine  Witch Hazel  Bigtooth Aspen  Hemlock  Sugar Maple  Ironwood  Red Oak	51-80  Density  Low  Medium  Low  Medium  Low  Medium  Low  Medium  Low  Medium	N/A  Avg. Height  Variable  Variable  5 - 10 feet  Variable  10 - 20 feet  Variable  20 feet  >20 feet	Sapling Sapling Tall Shrut Sapling Sapling Sapling Sapling Sapling Sapling	limited (most in what I believe was the A3 horseshoe area in middle of '82 cut). Most WP was older too (65+yrs). Residual WP/RO from previous cuts did not impede regen  Small grassy opening in low spot near I-75. Sapling WP/JP on perimeter some canopy sized stems too.  Influence of I-75 corridor, underground gas pipeline corridor, powerline corridor and Roberts Rd has created some differing ages and size structure(s). My eyes saw a 50/50 mix of poles and logs. BA's (and DBH's) higher within the narrrow I-75 ROW strip which is excluded (and now deleted) from this stand by the I-75 ROW fence. Remainder of standard was running ~50-80BA. Some decent hemlock and red oak regen, some

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Stand	d Level 4 C	over Type	;	Size De	nsity	Acres Stand Age B	A Range	Managed S	Site	General Comments
19	42120 - Plai			letimber			51-80	N/A		Apparently planted. Quite a few JP standing dead or 'snapped' in many areas, especially in center of stand. This causing variable canopy
	Canopy Species		Size Class		Age	Sub-Canopy Species	Density	Avg. Height	Size	closure, ranges on either side of 50-75 for most part. Living JP DBH's still
	Bigtooth Aspen	3	Log	12		Black Cherry	Low	Variable	Sapling	running quite small, limited merch. Good WP regen, 5-10ft in N1/2 and
	Jack Pine	85	Pole	7	51	Jack Pine	Low	5 - 10 feet	Sapling	10-20ft in S1/2. Variety of other tree and shrub species in sub-canopy too. Extreme NW was split/merged into Stand 16. It held/holds a small
	Quaking Aspen	3	Pole	8		White Pine	High	5 - 10 feet	Sapling	slug of natural WP w/scat RM, RO, some BTA and RP (large charred
	Red Pine	2	Log/Pole	14		Ironwood	Medium	Variable	Sapling	stumps in this slug too).
	White Pine	5	Log/Pole	12		Sugar Maple	Low	Variable	Sapling	
	Red Oak	1	Log	13		Red Maple	Medium	Variable	Sapling	
	Red Maple	1	Pole/Log	9		Beech	Low	Variable	Sapling	
						Balsam Fir	Low	10 - 20 feet	Sapling	
						Red Oak	Low	Variable	Sapling	
						Quaking Aspen	Low	10 - 20 feet	Sapling	
						Witch Hazel	Low	5 - 10 feet	Tall Shrub	
						Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub	
20	4119 - Mixed No	orthern Har	dwoods S	Sawtimb	er Well	2.2 81	81-110	N/A		Stand resides on steeper north facing slope, was excluded when Stand 24 was cut. Some aspen/mixed NHWD saps mixing in on south and west
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	boundary. Far west not as steep, Stand 24 harvest extended into this
	Sugar Maple	10	Log/Pole	11		Beech	High	5 - 10 feet	Sapling	area a little bit (2-aged there). Residual RM, WP, some BTA in west.
	Red Maple	50	Log/Pole	11	81	Witch Hazel	Low	5 - 10 feet	Tall Shrub	Canopy WP somewhat lines the northern/western boundary.
	Beech	10	Log/Pole	12		Sugar Maple	Low	>20 feet	Sapling	
	Red Oak	2	XLog/Log	19		Bigtooth Aspen	Low	>20 feet	Sapling	
	Bigtooth Aspen	15	Log	15		Red Maple	Low	>20 feet	Sapling	
	Ironwood	3	Pole/Sapling	7		White Pine	Low	Variable	Sapling	
	White Pine	4	Log/Pole	14		Balsam Fir	Trace	Variable	Sapling	
	Paper Birch	5	Pole/Log	9		Paper Birch	Trace	>20 feet	Sapling	
	Jack Pine	1	Pole	7		Ironwood	Medium	Variable	Sapling	
21	790 - Other Bare/	Sparsely V	egetated	Nonsto	cked	1.2 Ur	nspecified			Gas well, Riverside Energy, STATE MAPLE FOREST #B3-5.
22	790 - Other Bare/	Sparsely V	egetated	Nonsto	cked	1.1 Ur	nspecified			Gas well, Riverside Energy, STATE MAPLE FOREST #A4-5.
23	4130	- Aspen		Sapling		165.5 7 lı	mmature	N/A		Barnes: Stand was harvested in winter of 2014/15 under 72-005-12-01 Dumpy Aspen. Site has regenerated nicely.JSP in '20: Concur w/Tom's
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	regen comment. Did not see all of the stand. Some lighter
	Red Maple	15	Sapling	1		Beech	Medium	< 5 feet	Seeding	stocked/patchy areas. Some areas heavier to beech seed and sap sized
	Red Oak	4	Sapling	1		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub	regen. A few scattered/non-merch 'skip/uncut' trees. Usually WP, believe
	Bigtooth Aspen	45	Sapling	1	7	Witch Hazel	Medium	5 - 10 feet	Tall Shrub	a few hemlock and a handful of deciduous (RM). Feel comfortable saying this stand passes its regen check.
	Black Cherry	4	Sapling	1						
	Paper Birch	3	Sapling	1						
	Beech	7	Sapling	1						
	Quaking Aspen	22	Sapling	1						



Stand	nd Level 4 Cover Type		S	ize De		Acres	Acres Stand Age BA		Managed Site		General Comments		
24	4130	- Aspen	S	Sapling Well		52.3	21 I	mmature	N/A		Majority of interior aspen stems running 2-3", stems on an edge not muc		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano	nopy Species	Density	Avg. Height	Size	larger. RM/BC 1-2". Very minimal number of residuals left (log WP/RO) until you reach the far western area near I-75. More residual RM, JP,		
	Black Cherry	4	Sapling	2		E	Beech	Low	5 - 10 feet	Sapling	WP, BTA, and other species near 75, hasn't affected sapling success		
	Red Maple	10	Sapling	2		Servicebe	erry (Juneberry)	Low	10 - 20 feet	Sapling	there. Small inclusion of grassy opening w/saplings in west too.		
	Red Oak	2	Sapling	2		Wit	tch Hazel	Medium	5 - 10 feet	Tall Shrub	Noticeable lack of drumming logs/horizontal structure (not sure drum logs were standard Rx spec when cut). Did watch a grouse pop-out from		
	Quaking Aspen	20	Sapling	3	21						under a log RO that had blown down.		
	White Pine	3	Log/Pole	14									
	Red Oak	2	Log/XLog	17									
	Hemlock	1	Pole	8									
	Red Maple	2	Log	11									
	Jack Pine	1	Pole/Log	8									
	Bigtooth Aspen	55	Sapling	3	21								
25		790 - Other Bare/Sparsely Vegeta			cked	0.9		nspecified			Gas well, Riverside Energy, STATE MAPLE FOREST #D3-5.		
26	4130	- Aspen	5	Sapling	ı Well	22.6	29	1-50	N/A				
26		•								Size	Sale closed '92 (Landfill Aspen). Majority of interior aspen stems are just shy of 5", some interior stems did measure 5-6". Corridor along E/W		
26	4130 - Canopy Species Red Maple	•	Size Class Sapling		Well	Sub-Ca	29 Inopy Species	1-50  Density  Medium	N/A  Avg. Height  < 5 feet	<b>Size</b> Seeding			
	Canopy Species	% Cover	Size Class	DBH		Sub-Ca Re	nopy Species	Density	Avg. Height	Size Seeding Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to		
	Canopy Species Red Maple	<b>% Cover</b>	Size Class Sapling	<b>DB</b> H	Age	Sub-Ca Re Wh	nopy Species ed Maple	<b>Density</b> Medium	Avg. Height < 5 feet	Seeding	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in		
	Canopy Species  Red Maple  Bigtooth Aspen	<b>% Cover</b> 12 65	Size Class Sapling Sapling/Pole	<b>DBH</b> 3 4	Age	Sub-Ca Re Wh Re	anopy Species ed Maple hite Pine	Density  Medium  Trace	Avg. Height < 5 feet 5 - 10 feet	Seeding Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to		
	Canopy Species Red Maple Bigtooth Aspen White Pine	% Cover 12 65 2	Size Class Sapling Sapling/Pole Log/XLog	<b>DBH</b> 3 4 14	Age	Sub-Ca Re Wh Re	ed Maple hite Pine ed Maple	Medium Trace Medium	Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet	Seeding Sapling Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to		
	Canopy Species  Red Maple  Bigtooth Aspen  White Pine  Black Cherry  Quaking Aspen	% Cover 12 65 2 6	Size Class Sapling Sapling/Pole Log/XLog Sapling Sapling/Pole	3 4 14 3 4	<b>Age</b> 29	Sub-Ca Re Wh Re	ed Maple hite Pine ed Maple	Medium Trace Medium	Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet	Seeding Sapling Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to a more uniform pole stand by '30 inventory season.  Generally lower stocked (40BA avg)/poor quality QA stand. Some areas		
	Canopy Species  Red Maple  Bigtooth Aspen  White Pine  Black Cherry  Quaking Aspen	% Cover	Size Class Sapling Sapling/Pole Log/XLog Sapling Sapling/Pole	DBH	29 29 Mediu	Sub-Ca Re Wi Re I	ed Maple hite Pine ed Maple Beech	Density  Medium  Trace  Medium  Trace	Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Seeding Sapling Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to a more uniform pole stand by '30 inventory season.  Generally lower stocked (40BA avg)/poor quality QA stand. Some areas w/more log sizes. Canopy open enough to allow a medium to high QA		
27	Canopy Species Red Maple Bigtooth Aspen White Pine Black Cherry Quaking Aspen	% Cover	Size Class Sapling Sapling/Pole Log/XLog Sapling Sapling/Pole Pole	DBH	29 29	Sub-Ca Re Wh Re In Market Mark	enopy Species ed Maple hite Pine ed Maple Beech	Density  Medium Trace Medium Trace  Medium Trace	Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A	Seeding Sapling Sapling Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to a more uniform pole stand by '30 inventory season.  Generally lower stocked (40BA avg)/poor quality QA stand. Some areas w/more log sizes. Canopy open enough to allow a medium to high QA sap layer. Southern areas of stand offer a can-closure closer to 75-100%		
27	Canopy Species  Red Maple  Bigtooth Aspen  White Pine  Black Cherry  Quaking Aspen  4130	% Cover  12 65 2 6 15 - Aspen % Cover	Size Class Sapling Sapling/Pole Log/XLog Sapling Sapling/Pole Pole Size Class	DBH 3 4 14 3 4 ttimber	29 29 Mediu	Sub-Ca Re Wh Re I m 45.2 Sub-Ca	enopy Species and Maple hite Pine and Maple Beech  55 anopy Species	Density  Medium Trace Medium Trace  Medium Trace  Density	Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height	Seeding Sapling Sapling Sapling Sapling Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to a more uniform pole stand by '30 inventory season.  Generally lower stocked (40BA avg)/poor quality QA stand. Some areas w/more log sizes. Canopy open enough to allow a medium to high QA sap layer. Southern areas of stand offer a can-closure closer to 75-100% Stand has appearance of suffering from some kind of event? Perhaps burned over extra hard (large/charred stumps prevelant) or grazed in the		
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227	Canopy Species Red Maple Bigtooth Aspen White Pine Black Cherry Quaking Aspen  4130 Canopy Species Quaking Aspen White Pine Bigtooth Aspen	% Cover  12 65 2 6 15 - Aspen  % Cover 81 5 10	Size Class Sapling Sapling/Pole Log/XLog Sapling/Pole Pole Size Class Pole/Log Log/XLog/Pole Log/Pole	DBH 3 4 14 3 4 ettimber DBH 9 14 12	29 29 Mediu	Sub-Ca Re Wh Re I m 45.2 Sub-Ca Wh Re	ed Maple hite Pine ed Maple Beech  55 anopy Species hite Pine ed Maple	Density  Medium Trace Medium Trace  51-80  Density Low Medium High	Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height Variable Variable 10 - 20 feet	Seeding Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to a more uniform pole stand by '30 inventory season.  Generally lower stocked (40BA avg)/poor quality QA stand. Some areas w/more log sizes. Canopy open enough to allow a medium to high QA sap layer. Southern areas of stand offer a can-closure closer to 75-100% Stand has appearance of suffering from some kind of event? Perhaps burned over extra hard (large/charred stumps prevelant) or grazed in the past. QA appears offsite, almost all poor quality w/defect and small DBH given age. Quite a few QA stems hovering just short of 10". Scattered		
27	Canopy Species Red Maple Bigtooth Aspen White Pine Black Cherry Quaking Aspen  4130 Canopy Species Quaking Aspen White Pine Bigtooth Aspen Red Maple	% Cover  12 65 2 6 15 - Aspen % Cover 81 5 10 1	Size Class Sapling Sapling/Pole Log/XLog Sapling/Pole Pole Size Class Pole/Log Log/XLog/Pole Log/Pole	DBH 3 4 14 3 4 etimber DBH 9 14 12 12	29 29 Mediu	Sub-Ca Re Wh Re I  m 45.2  Sub-Ca Wh Re Quak Bigto	anopy Species and Maple hite Pine and Maple Beech  55 anopy Species hite Pine and Maple king Aspen both Aspen	Density  Medium Trace Medium Trace  51-80  Density Low Medium High Low	Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height Variable Variable 10 - 20 feet 10 - 20 feet	Seeding Sapling Sapling Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to a more uniform pole stand by '30 inventory season.  Generally lower stocked (40BA avg)/poor quality QA stand. Some areas w/more log sizes. Canopy open enough to allow a medium to high QA sap layer. Southern areas of stand offer a can-closure closer to 75-100% Stand has appearance of suffering from some kind of event? Perhaps burned over extra hard (large/charred stumps prevelant) or grazed in the past. QA appears offsite, almost all poor quality w/defect and small DBH given age. Quite a few QA stems hovering just short of 10". Scattered L/XL WP present, most as singles, some rarely in clumps of two. Saw 2-		
27	Canopy Species Red Maple Bigtooth Aspen White Pine Black Cherry Quaking Aspen  4130 Canopy Species Quaking Aspen White Pine Bigtooth Aspen Red Maple Paper Birch	% Cover  12 65 2 6 15  - Aspen  % Cover 81 5 10 1	Size Class Sapling Sapling/Pole Log/XLog Sapling Sapling/Pole  Pole  Size Class Pole/Log Log/XLog/Pole Log/Pole Log Pole Pole	DBH  3 4 14 3 4 ettimber  DBH  9 14 12 12 7	29 29 Mediu	Rework Assertion Sub-Ca Sub-Ca When Rework Assertion Rework Assertion Rework Assertion Black Back Back Back Back Back Back Back B	sinopy Species and Maple hite Pine and Maple Beech  55 sinopy Species hite Pine and Maple king Aspen both Aspen ck Cherry	Density  Medium Trace Medium Trace  51-80  Density Low Medium High Low High	Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height Variable Variable 10 - 20 feet 10 - 20 feet Variable	Seeding Sapling Sapling Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to a more uniform pole stand by '30 inventory season.  Generally lower stocked (40BA avg)/poor quality QA stand. Some areas w/more log sizes. Canopy open enough to allow a medium to high QA sap layer. Southern areas of stand offer a can-closure closer to 75-100% Stand has appearance of suffering from some kind of event? Perhaps burned over extra hard (large/charred stumps prevelant) or grazed in the past. QA appears offsite, almost all poor quality w/defect and small DBH given age. Quite a few QA stems hovering just short of 10". Scattered L/XL WP present, most as singles, some rarely in clumps of two. Saw 2-		
27	Canopy Species  Red Maple  Bigtooth Aspen  White Pine  Black Cherry  Quaking Aspen  4130  Canopy Species  Quaking Aspen  White Pine  Bigtooth Aspen  Red Maple  Paper Birch  Jack Pine	% Cover	Size Class Sapling Sapling/Pole Log/XLog Sapling/Pole Pole  Size Class Pole/Log Log/XLog/Pole Log/Pole Log Pole	DBH 3 4 14 3 4 etimber DBH 9 14 12 12 7 9	29 29 Mediu	Rework Sub-Ca Rework Re	shopy Species and Maple hite Pine and Maple Beech  55 anopy Species hite Pine and Maple king Aspen both Aspen ck Cherry alsam Fir	Density  Medium Trace Medium Trace  Medium Trace  51-80  Density  Low Medium High Low High Trace	Avg. Height < 5 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A  Avg. Height Variable Variable 10 - 20 feet Variable 10 - 20 feet Variable 10 - 20 feet	Seeding Sapling Sapling Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to a more uniform pole stand by '30 inventory season.  Generally lower stocked (40BA avg)/poor quality QA stand. Some areas w/more log sizes. Canopy open enough to allow a medium to high QA sap layer. Southern areas of stand offer a can-closure closer to 75-100% Stand has appearance of suffering from some kind of event? Perhaps burned over extra hard (large/charred stumps prevelant) or grazed in the past. QA appears offsite, almost all poor quality w/defect and small DBH given age. Quite a few QA stems hovering just short of 10". Scattered L/XL WP present, most as singles, some rarely in clumps of two. Saw 2-RP (log/xlog), 1-BF (log), 1-WS (log).		
27	Canopy Species  Red Maple  Bigtooth Aspen  White Pine  Black Cherry  Quaking Aspen  4130  Canopy Species  Quaking Aspen  White Pine  Bigtooth Aspen  Red Maple  Paper Birch  Jack Pine	% Cover	Size Class Sapling Sapling/Pole Log/XLog Sapling Sapling/Pole  Pole  Size Class Pole/Log Log/XLog/Pole Log/Pole Log Pole Pole	DBH 3 4 14 3 4 etimber DBH 9 14 12 12 7 9	29 29 Mediu	Sub-Ca Re Wh Re I M 45.2 Sub-Ca Wh Re Quak Bigto Black Ba Black/Re Hawti	sinopy Species and Maple hite Pine and Maple Beech  55 sinopy Species hite Pine and Maple king Aspen both Aspen coth Cherry alsam Fir and (Hybrid) Oak	Density  Medium Trace Medium Trace  Medium Trace  51-80  Density Low Medium High Low High Trace Trace	Avg. Height	Seeding Sapling Sapling Sapling Size Sapling	shy of 5", some interior stems did measure 5-6". Corridor along E/W forest rd and landfill fence line holds pockets that have converted to reliable pole sizes. BTA dominant, QA clones present too (mainly in south). A few residual WP left during harvest. Expect aspen to convert to a more uniform pole stand by '30 inventory season.  Generally lower stocked (40BA avg)/poor quality QA stand. Some areas w/more log sizes. Canopy open enough to allow a medium to high QA sap layer. Southern areas of stand offer a can-closure closer to 75-100% Stand has appearance of suffering from some kind of event? Perhaps burned over extra hard (large/charred stumps prevelant) or grazed in the past. QA appears offsite, almost all poor quality w/defect and small DBH given age. Quite a few QA stems hovering just short of 10". Scattered L/XL WP present, most as singles, some rarely in clumps of two. Saw 2-RP (log/xlog), 1-BF (log), 1-WS (log).		



Stand	d Level 4 Co	5	Size Der	nsity	Acres	Stand Age I	BA Range	Managed S	Site	General Comments		
28	42110 - Plan	Pine S	Sawtimber Well		32.6	54	141-170	N/A		Planted in '69, row thin completed '04 (Refuse Red Pine). Overall		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	decent/better quality self-pruned RP. Usual defect present (doubles, forks, crook, sweep, and likely porky/weevil damage from the past) but	
	Red Pine					Suga	ar Maple	Low	5 - 10 feet	Sapling	not excessive. Sap layer is quite excessive in areas (SW, SE, North) then	
	Quaking Aspen	4	Log/Pole	11		В	Beech	Medium	10 - 20 feet	Sapling	null in spots (center and western locals). A somewhat failed area in the	
	Red Maple	3	Log/Pole	11		Red	d Maple	High	Variable	Sapling	SE, has a mix of canopy RP, QA and RM (RP BA's ran ~70sqft there).  Area just south of center was a bit 'stubby', likely result of past	
	Bigtooth Aspen	1	Log	16		Quaki	ing Aspen	Low	10 - 20 feet	Sapling	porky/weevil. Average BA of 170 for all species (9-swings,110 low/250	
						Iro	nwood	Low	Variable	Sapling	high), just below 'meets criteria'. Most commonly swung 150-170BA (+-)	
						Black/Red	d (Hybrid) Oak	Low	5 - 10 feet	Sapling	for RP stems.	
						Blac	k Cherry	Medium	Variable	Sapling		
						Wh	ite Oak	Trace	5 - 10 feet	Sapling		
						Hazelni	ut (Beaked)	Medium	5 - 10 feet	Tall Shrub		
29	4130 -	Aspen	P	Poletimber Wel		38.1	37	81-110	N/A		Sale closed '84 (Block 248 cut). Impressive growth given age. Consistent	
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Car	nopy Species	Density	Avg. Height	Size	pole sized aspen w/some stems converted to small log. Extreme SE area appears to of been left uncut (larger DBH's). West 1/2 w/seemingly more	
	Sugar Maple	7	Pole/Sap/Log	6		Suga	ar Maple	High	>20 feet	Sapling	QA, east w/more BTA. VERY ENCOURAGING amount of HM regen,	
	Red Maple	6	Pole/Sap/Log	7		Iro	nwood	Medium	Variable	Sapling	both off the stump 20ft+ and another layer 5-10ft of single stems perhaps	
	Paper Birch	3	Pole/Log/Sap	7		В	Beech	Low	5 - 10 feet	Sapling	from soil seed bank. Variety of other desirable (non-aspen) regen present too. Minimal IW/BE regen. Trace canopy BE/RO. Extreme south holds	
	Bigtooth Aspen	50	Pole/Sap/Log	og 8 37	37	Red	d Maple	Medium	>20 feet	Sapling	small pine component.	
	Black Cherry	4	Sapling/Pole	3		Servicebe	rry (Juneberry	) Trace	>20 feet	Sapling		
	Quaking Aspen	25	Pole/Sap/Log	7		Wh	ite Pine	Low	Variable	Sapling		
	White Pine	3	Log/Pole	13		Yello	ow Birch	Trace	>20 feet	Sapling		
	Red Pine	2	Log	16		Suga	ar Maple	Medium	< 5 feet	Seeding		
						В	Beech	Low	< 5 feet	Seeding		
						Iro	nwood	Medium	< 5 feet	Seeding		
30 42110 - Planted Red Pine Sawtimber				r Well	7.5	54	171-200	N/A		Planted in '69, 3rd row thin completed '04 (Refuse Red Pine). Similar to R9 Stand 28, most stems pretty nice with the usual doubles, forks,		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	knuckles', etc. DBH's a bit larger overall and RP seemed taller on	
	Red Pine	92	Log/Pole	12	54	Suga	ar Maple	High	10 - 20 feet	Sapling	average (than Std.28). BA swings in polygon north of Hartwick Rd were a	
	Sugar Maple	6	Log/Pole	12		В	Beech	Medium	10 - 20 feet	Sapling	bit higher (narrrower, not as much HM competition in canopy). Southern	
	Beech	1	Log	11		Iro	nwood	Medium	10 - 20 feet	Sapling	poly had a bit more canopy 'intrusion' from mult-stem sugar maple.  Average BA for RP was 160. BA average including all species was 174	
	Quaking Aspen	1	Log	12		Red	d Maple	Medium	10 - 20 feet	Sapling	(110 lowest, 240 high). A lot of HM regen, BE regen was 'high' in areas.	
						Suga	ar Maple	High	< 5 feet	Seeding		
						Wito	ch Hazel	Low	5 - 10 feet	Tall Shrub		

Hazelnut (Beaked)

Tall Shrub

< 5 feet

Medium



Stand	d Level 4 C	Level 4 Cover Type			ensity	Acres Stand Ag	je BA Range	Managed Site		General Comments		
31	4130	- Aspen	:	Saplino	g Well	22.5 21	Immature	e N/A		Aspen regenerating pretty good. Some lighter stocked/patchy areas		
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Canopy Spec	cies Density	Avg. Height	Size	throughout. Most aspen stems running 3-4". BTA and QA mix. Fairly impressive sugar maple regen, similar to it's older sibling to the north		
	Sugar Maple	15	Sapling	2	21	Beech	Low	5 - 10 feet	Sapling	(Stand 29). Hard maple in canopy positions, quite a few stems ranging		
	Red Maple	8	Sapling	3	21	Sugar Maple	High	10 - 20 feet	Sapling	20ft and a decent seedling layer (some were browsed). Small slug of se		
	Bigtooth Aspen	45	Sapling	3	21	Honeysuckle (spp	o.) Low	5 - 10 feet	Tall Shrub	WP in very north, near landfill entrance. Water quality/testing well in no too.		
	Black Cherry	5	Sapling	2		Red Maple	Low	10 - 20 feet	Sapling	100.		
	Ironwood	3	Sapling	2		Serviceberry (Juneb	erry) Low	10 - 20 feet	Sapling			
	Quaking Aspen	24	Sapling	3		Striped Maple	Low	10 - 20 feet	Sapling			
						Sugar Maple	Medium	< 5 feet	Seeding			
						Blackberry/Raspbe	erry Low	< 5 feet	Tall Shrub			
						11 1 1/5 1		< 5 feet	Tall Shruk	b		
						Hazelnut (Beaked	d) Medium	< 5 feet	Tall Shrub	D		
	790 - Other Bare/	/Sparsely V	egetated	Nonetr	ncked	White Pine	Low	< 5 feet 10 - 20 feet	Sapling			
32	790 - Other Bare/ 4111 - S.Maple, H			Nonsto		White Pine	,			Gas wells, Riverside Energy, STATE MAPLE FOREST #A4-4, #A3-4, and #B3-4.  Thin (+cut all merch aspen) completed '04 (Landfill Hardwoods). Some		
		ard Mast As		awtimb		White Pine	Unspecified 81-110	10 - 20 feet		Gas wells, Riverside Energy, STATE MAPLE FOREST #A4-4, #A3-4, and #B3-4.  Thin (+cut all merch aspen) completed '04 (Landfill Hardwoods). Some the best NHWD I've seen, and some of the worst beech/ironwood rege		
	4111 - S.Maple, H	ard Mast As	ssociation Sa	awtimb	er We	1.0 85.7 86	Unspecified 81-110	10 - 20 feet N/A	Sapling	Gas wells, Riverside Energy, STATE MAPLE FOREST #A4-4, #A3-4, and #B3-4.		
	4111 - S.Maple, H.	ard Mast As	ssociation Sa	awtimb	er We	White Pine  1.0  85.7  86  Sub-Canopy Spec	Unspecified 81-110 cies Density	N/A Avg. Height	Sapling	Gas wells, Riverside Energy, STATE MAPLE FOREST #A4-4, #A3-4, and #B3-4.  Thin (+cut all merch aspen) completed '04 (Landfill Hardwoods). Some the best NHWD I've seen, and some of the worst beech/ironwood rege too. Very 'maplelized'. Most HM is extremely clean, straight, tight barke some w/6+ logs. Beech really the only other canopy companion observed. Minor inclusions of BW (also very clean) and RM, a few YB,		
	4111 - S.Maple, Hacker Sugar Maple	ard Mast As  Cover	ssociation Size Class Log/Pole/XLog	awtimb DBH	er We	White Pine  1.0  85.7 86  Sub-Canopy Specified Beech	Unspecified  81-110  cies Density  Full	N/A Avg. Height 10 - 20 feet	Sapling  Size  Sapling	Gas wells, Riverside Energy, STATE MAPLE FOREST #A4-4, #A3-4, and #B3-4.  Thin (+cut all merch aspen) completed '04 (Landfill Hardwoods). Some the best NHWD I've seen, and some of the worst beech/ironwood rege too. Very 'maplelized'. Most HM is extremely clean, straight, tight barks some w/6+ logs. Beech really the only other canopy companion observed. Minor inclusions of BW (also very clean) and RM, a few YB, saw one large multi-stem RO, trace BTA (in south) and a token WP to		
	4111 - S.Maple, Ha Canopy Species Sugar Maple Yellow Birch	ard Mast As  % Cover  72  3	ssociation Sa Size Class Log/Pole/XLog Log	12 14 15	er We	White Pine  1.0  1.85.7 86  Sub-Canopy Speciments Beech Ironwood	Unspecified  81-110  cies Density  Full Full Medium	N/A  Avg. Height  10 - 20 feet  10 - 20 feet	Size Sapling Sapling Sapling	Gas wells, Riverside Energy, STATE MAPLE FOREST #A4-4, #A3-4, and #B3-4.  Thin (+cut all merch aspen) completed '04 (Landfill Hardwoods). Some the best NHWD I've seen, and some of the worst beech/ironwood reget too. Very 'maplelized'. Most HM is extremely clean, straight, tight barks some w/6+ logs. Beech really the only other canopy companion observed. Minor inclusions of BW (also very clean) and RM, a few YB, saw one large multi-stem RO, trace BTA (in south) and a token WP to BA still running low from recent Rx in mid-00's (102BA average). Quality		
	4111 - S.Maple, Hacker Sugar Maple Yellow Birch Basswood	ard Mast As  **Cover*   72     3     5	ssociation Sa Size Class Log/Pole/XLog Log Log Log/XLog	12 14 15	er We	White Pine  1.0  85.7 86  Sub-Canopy Special Beech Ironwood Sugar Maple	Unspecified  81-110  cies Density  Full  Full  Medium  Low	N/A  Avg. Height  10 - 20 feet  10 - 20 feet  >20 feet	Size Sapling Sapling Sapling Sapling	Gas wells, Riverside Energy, STATE MAPLE FOREST #A4-4, #A3-4, and #B3-4.  Thin (+cut all merch aspen) completed '04 (Landfill Hardwoods). Some the best NHWD I've seen, and some of the worst beech/ironwood rege too. Very 'maplelized'. Most HM is extremely clean, straight, tight barke some w/6+ logs. Beech really the only other canopy companion observed. Minor inclusions of BW (also very clean) and RM, a few YB, saw one large multi-stem RO, trace BTA (in south) and a token WP too BA still running low from recent Rx in mid-00's (102BA average). Quali decreases in south near boundary. Some aspen saps along southern boundary and around Stand 42. A 0.5ac inclusion of A8 (QA) in very		
	4111 - S.Maple, H.  Canopy Species  Sugar Maple  Yellow Birch  Basswood  Beech	ard Mast As  **Cover*    72     3     5     15	ssociation Si Size Class Log/Pole/XLog Log Log/XLog Log/Pole/XLog	DBH 12 14 15 13	er We	White Pine  1.0  85.7 86  Sub-Canopy Spectors  Beech  Ironwood  Sugar Maple  Bigtooth Aspen	Unspecified  81-110  cies Density  Full  Full  Medium  Low	N/A  Avg. Height  10 - 20 feet  10 - 20 feet  >20 feet  >20 feet	Size Sapling Sapling Sapling Sapling Sapling	Gas wells, Riverside Energy, STATE MAPLE FOREST #A4-4, #A3-4, and #B3-4.  Thin (+cut all merch aspen) completed '04 (Landfill Hardwoods). Some the best NHWD I've seen, and some of the worst beech/ironwood rege too. Very 'maplelized'. Most HM is extremely clean, straight, tight barks some w/6+ logs. Beech really the only other canopy companion observed. Minor inclusions of BW (also very clean) and RM, a few YB, saw one large multi-stem RO, trace BTA (in south) and a token WP to BA still running low from recent Rx in mid-00's (102BA average). Qualidecreases in south near boundary. Some aspen saps along southern		
	4111 - S.Maple, H.  Canopy Species  Sugar Maple  Yellow Birch  Basswood  Beech	ard Mast As  **Cover*    72     3     5     15	ssociation Si Size Class Log/Pole/XLog Log Log/XLog Log/Pole/XLog	DBH 12 14 15 13	er We	White Pine  1.0  85.7 86  Sub-Canopy Spectors  Beech  Ironwood  Sugar Maple  Bigtooth Aspen  Quaking Aspen	Unspecified  81-110  cies Density  Full  Full  Medium  Low  Low	N/A  Avg. Height  10 - 20 feet  10 - 20 feet  20 feet  >20 feet  >20 feet  >20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Gas wells, Riverside Energy, STATE MAPLE FOREST #A4-4, #A3-4, and #B3-4.  Thin (+cut all merch aspen) completed '04 (Landfill Hardwoods). Some the best NHWD I've seen, and some of the worst beech/ironwood rege too. Very 'maplelized'. Most HM is extremely clean, straight, tight barks some w/6+ logs. Beech really the only other canopy companion observed. Minor inclusions of BW (also very clean) and RM, a few YB, saw one large multi-stem RO, trace BTA (in south) and a token WP to BA still running low from recent Rx in mid-00's (102BA average). Quali decreases in south near boundary. Some aspen saps along southern boundary and around Stand 42. A 0.5ac inclusion of A8 (QA) in very S.E		



Stand	Level 4 C	Size Density			Acres	Stand Age B	A Range	Managed \$	Site	General Comments					
34	4130 - Aspen			Sawtimber Medium		າ 21.9	70	51-80	N/A		A fairly complex stand. Distinct second age class in sub-can as well as				
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	differing aspen ages where stems reclaimed former openings. Log sizes tended to be more prevelant but not well stocked as a whole (mix of A8/9				
	Red Maple	8	Pole/Log/XLog	8		Sug	gar Maple	High	>20 feet	Sapling	and A5/6). QA dominant, BTA scattered. Most aspen stems showing				
(	Quaking Aspen	71	Log/Pole	11	70	Re	d Maple	High	>20 feet	Sapling	decline, many were ok/marginal quality, some stems snagged out. Some				
	Black Cherry	3	Log/Pole	13		WI	nite Pine	Low	Variable	Sapling	larger single/multi-stem RM and HM in west polygon. HIGH sugar maple regen (20ft+) in portions of east poly, some RM regen too. West poly had				
E	Bigtooth Aspen	8	Log/Pole	12			Beech	Low	10 - 20 feet	Sapling	a medium/high mix of RM/HM regen. Called ages an estimate, had				
	Sugar Maple	8	Log/Pole/XLog	10		R	ed Pine	Trace	10 - 20 feet	Sapling	trouble counting rings on cores taken.				
	Red Oak	1	Log	11		Qual	king Aspen	Medium	10 - 20 feet	Sapling					
	White Pine	1	Log	12		Bla	ck Cherry	Low	Variable	Sapling					
1			-			W	hite Oak	Trace	>20 feet	Sapling					
						Hazelr	nut (Beaked)	High	< 5 feet	Tall Shrub					
						Hawt	horn (spp.)	Trace	10 - 20 feet	Tall Shrub					
						Blackbe	rry/Raspberry	Low	< 5 feet	Tall Shrub					
						Servicebe	erry (Juneberry)	Low	>20 feet	Sapling					
						Sug	gar Maple	Medium	< 5 feet	Seeding					
						Ire	onwood	Low	5 - 10 feet	Sapling					
							oed Maple	Medium	>20 feet	Sapling					
						Wit	ch Hazel	Medium	5 - 10 feet	Tall Shrub					
35	3303 - Mixed L	ow Density	y Trees	Nonsto	cked	11.9	U	nspecified	No		Ranges from low density/scattered tree/shrub to what could be split out				
						Sub-Ca	nopy Species	Density	Avg. Height	Size	and called forested. Highest density of trees is along the eastern boundary, up against Stand 38. This area has very dense scotch pine				
						WI	nite Pine	Low	Variable	Sapling	saps (some poles). as well as some other conifer/deciduous. Outside this				
						Qual	king Aspen	High	Variable	Sapling	area you generally see mixed clumps primarily containing QA, Blk				
						Bla	ck Cherry	High	Variable	Sapling	Cherry, and Scotch. Almost every tree species listed above is present as a sapling on up to log size (some xlog). Scotch pine is slowly radiating				
						Sco	otch Pine	High	Variable	Sapling	out westward.				
						Ire	onwood	Low	10 - 20 feet	Sapling					
						R	ed Pine	Low	>20 feet	Log					
			Ba	asswood	Trace	>20 feet	Log								
						Hawt	horn (spp.)	Medium	5 - 10 feet	Tall Shrub					
						Honey	suckle (spp.)	Low	< 5 feet	Tall Shrub					
						Wit	ch Hazel	Medium	10 - 20 feet	Tall Shrub					
						Re	ed Maple	Low	10 - 20 feet	Sapling					
						Hazelr	nut (Beaked)	Low	< 5 feet	Tall Shrub					



Stand	Level 4 Cover Type			ize Density	Acres	Stand Age	BA Range	Managed Site		General Comments	
36	4112 - Maple, Asso	nerry Sa	awtimber Well	2.1	86	81-110	N/A		Cotant in '10: mixed hdwd stand with hemlock present along northern edge. overall poor quality, especially compared to Stand 33.		
	Canopy Species % Cover Size Class DBH Age		Sub-Canopy Species		s Density	Avg. Height	Size	JSP in '20: Wasn't thinned/acted as a visual during most recent thin in Stand 33. I agree w/Cotant. PVT to north parking campers very close to			
	Sugar Maple	50	Log/Pole	11 86		Beech	High	Variable	Sapling	State ownership. Do not believe they're onto state but something to be	
	Red Maple	15	Log/Pole	11	In	onwood	Medium	Variable	Sapling	mindful of during '30 inventory. Some 'stuff' close to line as well (pallet,	
	Beech	26	Log/Pole/XLog	13	Suç	gar Maple	Low	>20 feet	Sapling	debris, etc). Found 2-corners, one in Sherman Rd and a concrete monument w/rebar just west of Sherman. Verify which is correct (note to	
	Hemlock	3	XLog/Log	20	Re	ed Maple	Medium	>20 feet	Sapling	self).	
	Yellow Birch	3	Log/Pole	14							
37	7 122 - Road/Parking Lot Nonstocked					ı	Unspecified	No		Hartwick Rd access to Waste Management landfill and road right of way along this access. also includes portions of right of way along Sherman Rd. two entrance signs for waste management are located at intersection with Sherman rd.	
38	42130 - Plant	ed Scotch	Pine Sa	awtimber Well	2.3	65	171-200	N/A		Majority of stand is Scotch Pine dominant, some are surprising large.	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Throughout are slugs of WP, then RP to a lesser extent (Xlog of both are very common). North end of north polygon is mainly WP (w/scat scotch	
	White Pine	25	Log/XLog/Pole	15	Suç	gar Maple	Medium	10 - 20 feet	Sapling	and RP). Powerline runs along the eastern boundary. Scotch pine saps	
	Red Pine	10	Log/XLog	15		Beech	Medium	10 - 20 feet	Sapling	(some poles) are heavily established along most western boundary locations (east boundary of Std.35 too). Scotch have seeded in on	
	Scotch Pine	60	Log/Pole/XLog		Ir	ronwood	Medium	10 - 20 feet	Sapling	Stateland across Sherman Rd (C245, Std.04).	
	Quaking Aspen	2	Log	12	Sco	otch Pine	Medium	10 - 20 feet	Sapling		
	Sugar Maple	3	Log/Pole/XLog	11	White Pine		Trace	< 5 feet	Seeding		
					Ba	alsam Fir	Trace	5 - 10 feet	Sapling		
					Hazelr	nut (Beaked)	High	< 5 feet	Tall Shrub		
					Wi	tch Hazel	Low	5 - 10 feet	Tall Shrub		
					Strip	ped Maple	Low	10 - 20 feet	Sapling		
39	122 - Road	d/Parking L	ot	Nonstocked	0.9	I	Unspecified	No		Old 27, Snowmobile Trail and Railroad.	
40	710 - S	and, Soil		Nonstocked	0.8	ı	Unspecified			(Shut-In) Gas well, Riverside Energy, STATE MAPLE FOREST #C4-5	
										Pump station site with several sheds/structures present.	
41	310 - Herbaceous Openland Nonstocked				0.7	0 (	Unspecified	No		Grassy opening with some scattered wolfy maple, a few black cherry, one scotch pine and sugar maple saps lining the perimeter.	
42	2 310 - Herbaceous Openland Nonstocked					0 (	Unspecified	No		Appearance of being an old landing (earthen mounds along edge).  Perimeter lined with some aspen/NHWD saps, some black cherry too.	
43	790 - Other Bare/	Sparsely V	egetated	Nonstocked	1.3	0 (	Unspecified		<u> </u>	Gas well, Riverside Energy, STATE MAPLE FOREST #D1-5	
										Well pad site. Southern 'tail' is a natural/grassy opening with some deciduous seeds/saps.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site		General Comments
44	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.1		Unspecified			Gas well, Riverside Energy, STATE MAPLE FOREST #C4-4 and #D3-4.
45	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6	0	Unspecified			Gas wells, Riverside Energy, STATE MAPLE FOREST #D1-4 and #C2-4
								Well pad site and heavily used exit/entry point along the landfill. Saplings along perimeter.
46	3105 - Mixed Upland Herbaceous	Nonstocked	5.6		Unspecified	No		Far fewer trees than its neighbor to the north Stand 35. Edges still
			Sub-Ca	nopy Specie	es Density	Avg. Height	Size	populated with scatterd clumps of primarily QA and Blk Cherry, sapling through log sizes. Access road to well pad Stand 44 and pads south and
			W	hite Pine	Trace	Variable	Sapling	west of the landfill travels through this opening. That road is currently (in
			Quaking Aspen Black Cherry		Medium	Variable	Sapling	winter) gated/locked at the landfill fence line.
					Medium	>20 feet	Pole	
			Hawt	thorn (spp.)	Low	< 5 feet	Tall Shrub	
			R	ed Pine	Trace	>20 feet	Pole	
			Scotch Pine		Trace	Variable	Sapling	
			Blackbe	erry/Raspberr	y Low	< 5 feet	Tall Shrub	
47	500 - Water	Nonstocked	0.8	0	Unspecified	No		West portion of Blue Gill Lake. Stand includes shoreline populated with some lowland shrubs as well as some tree species.
48	122 - Road/Parking Lot	Nonstocked	4.5	0	Unspecified	No		Primarily delineates North Roberts Rd. Also captures the entrances into the day use parks/boat launch areas for Horseshoe and Blue Gill Lakes. South end captures a small portion of Greenacres Dr.
49	790 - Other Bare/Sparsely Vegetated	Nonstocked	4.2	0	Unspecified			Corridor for an underground high pressure gas pipeline.
50	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.9	0	Unspecified			Powerline corridor. I-75 ROW fence is on the east boundary of this stand/corridor. Until the powerline turns SW and cuts through Stand 12.
51	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.3	0	Unspecified			Powerline corridor. Feeds PVT homes on north end of Horseshoe Lake