

Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11032 Entry Year 2021 Acreage: 2,013

County Houghton

Management Area: Central Houghton

Revision Date: 2019-03-04

Stand Examiner: Jason Collins

Legal Description:

Elm River Township

T52N, R36W, Sections 1, 2, 3, 4 and 11.

Identified Planning Goals:

To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

Soil and topography:

Upland soils are Graveraet loam, Trimountain cobbly fine sandy loam, Kalkaska sand, Waiska sand, and Alcona sand. Lowland soils are Whitbeck stony muck.

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

The majority of the adjacent lands are managed for timber. The private ownership is predominantly industrial forest.

Unique Natural Features:

MNFI recognizes the potential for osprey, eagle, great blue heron rookery, red-shouldered hawk, goshawk, moose, and gray wolf. Potential for wood turtle along drainage. Potential for showy orchis, climbing fumitory, goblin fern, male fern, large toothwort, ginseng, and northern marsh violet in mature hardwoods. Potential for veiny meadow-rue, narrow-leaved gentian, and Farwell's water-milfoil in drainages.

Archeological, Historical, and Cultural Features:

Copper mining occurred in this compartment. The town of Elm River was located here. There are several mineshafts: Elm River 1 and 2 and the Shawmut shafts. The Old Military Trail traverses through this compartment where a halfway house was located. The "Elm River Fire Tower" was once located in this compartment.

Special Management Designations or Considerations:

BMP guidelines should be followed around the intermittent streams.

Watershed and Fisheries Considerations:

The Elm River, Clear Creek, Shawmut Creek and an unnamed creek draining into Lake Gerald run through this compartment.

Wildlife Habitat Considerations:

Favor mesic conifers; White Pine and Hemlock, as well Northern Red Oak.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel operations are not located in the area, but there could be some potential within the compartment. The Portage Lake Volcanics were previously mined for copper in this area, and some abandoned mine sites are located in Section 11 within the compartment. The last leasing activity in the area was in the mid-1980s. There is still potential for valuable mineral specimens at some abandoned copper mine sites, but potential for a return of commercial mining is low. There is no economic oil and gas production in the UP.

Vehicle Access:

Primary access from M-26 is off the Elm River Tower Road.

Survey Needs:

Some survey work will need to be done for harvest activities.

Recreational Facilities and Opportunities:

The Bill Nichols Trail crossed this compartment which provides year-round recreation. There are also numerous hunting and fishing opportunities.

Fire Protection:

This is not a fire prone area. There has been little or no fire suppression activity required over the last decade in this compartment.

Additional Compartment Information:

There is a utility right of way, recreational trail and state highway that cross this compartment.

The following reports from the Inventory are attached:

Total Acres by Cover Type and Age Class

Cover Type by Harvest Method

Proposed Treatments - No Limiting Factors

Proposed Treatments – With Limiting Factors

Stand Details (Forested and Nonforested)

Dedicated and Proposed Special Conservation Areas

Site Condition Details

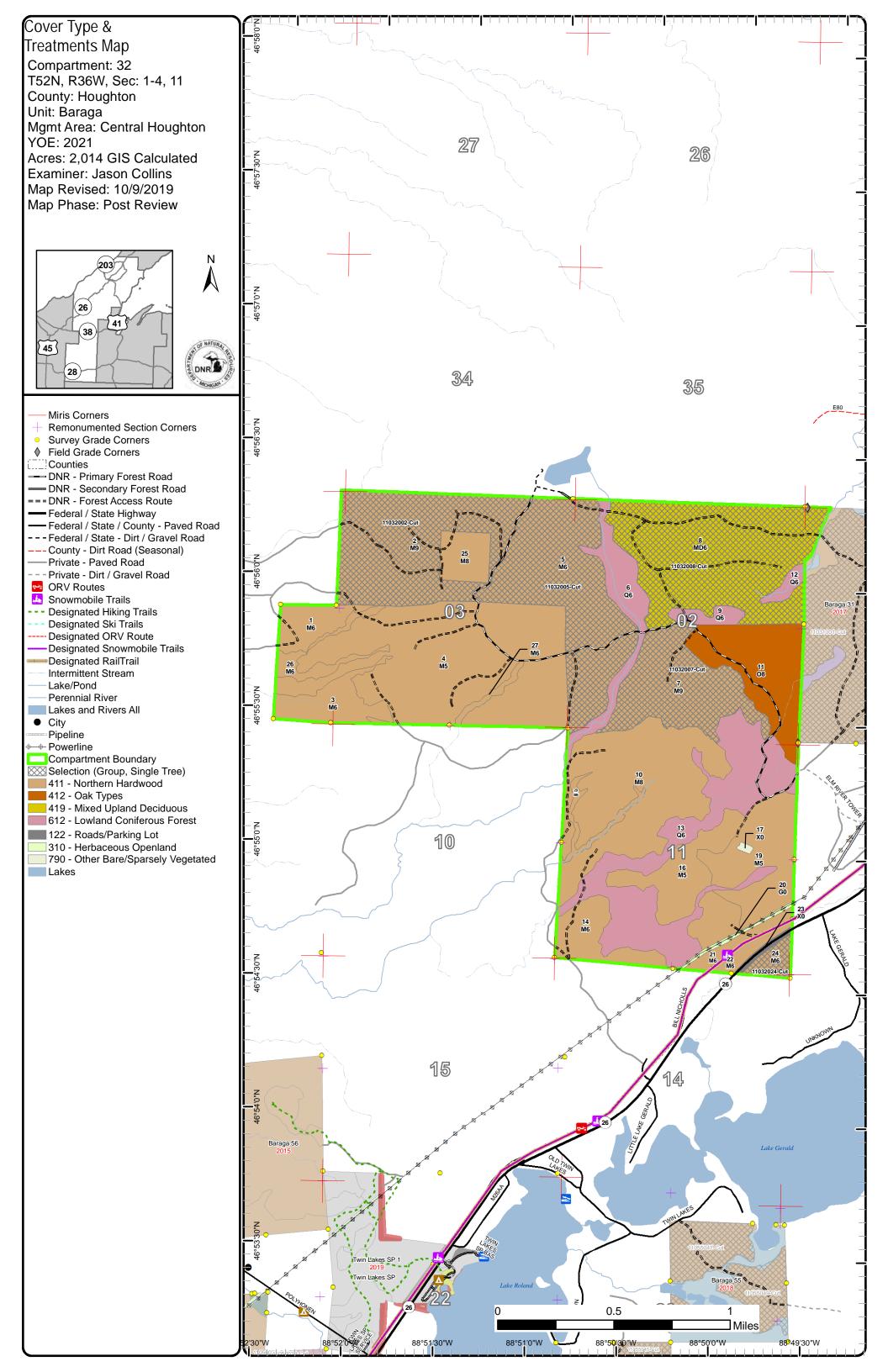
The following information is displayed, where pertinent, on the attached compartment maps:

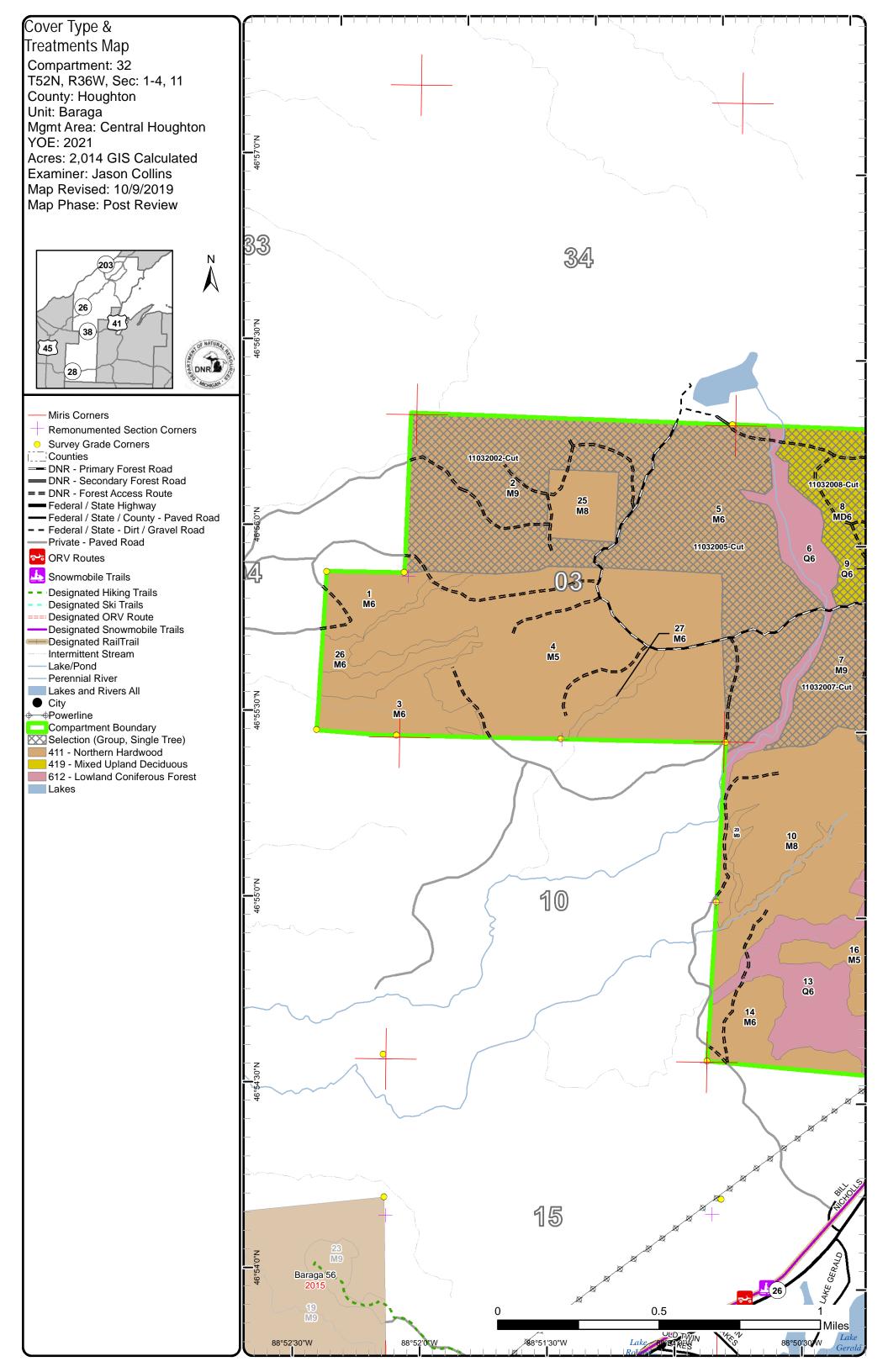
Base feature information, stand boundaries, cover types, and numbers

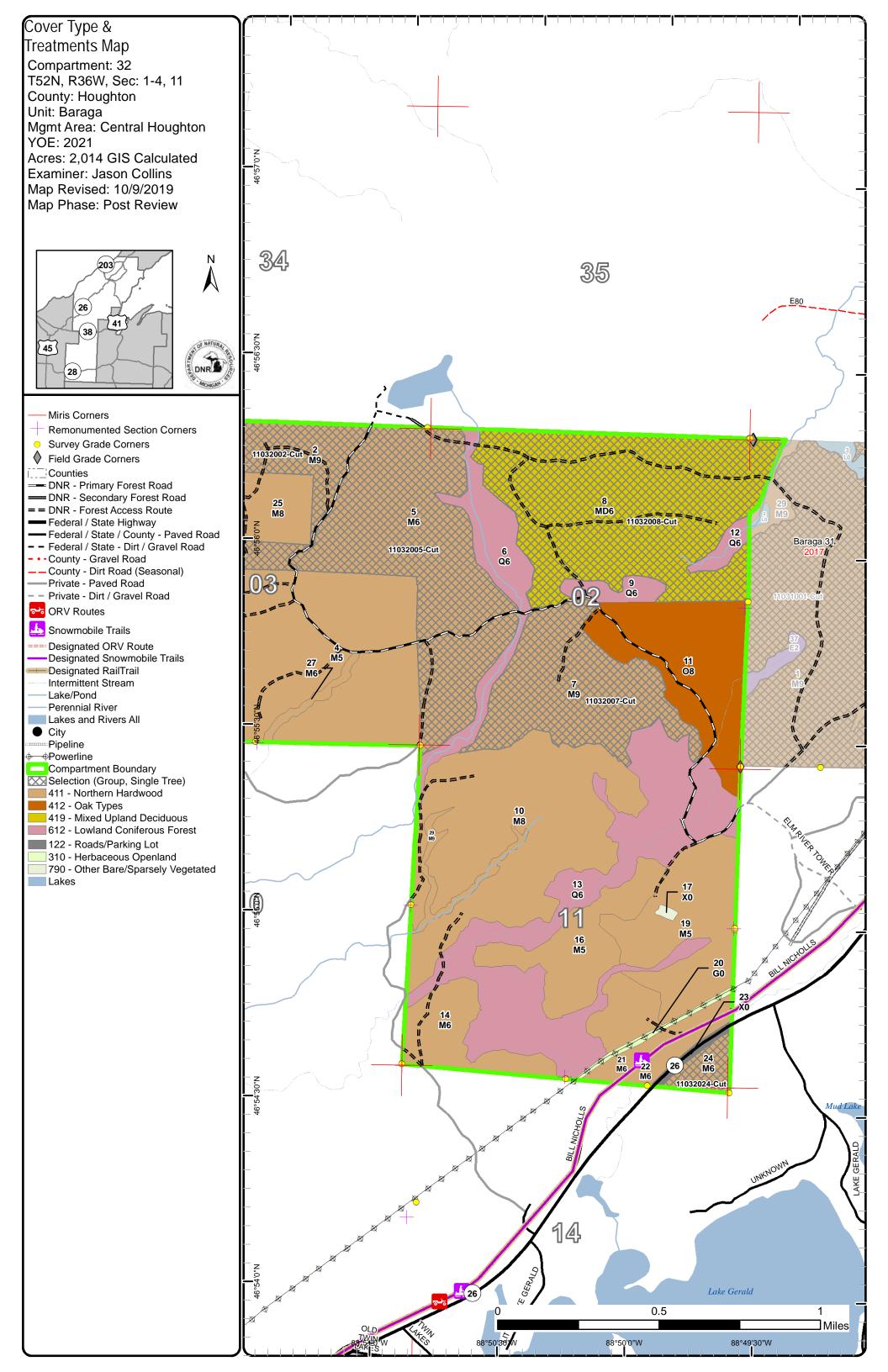
Proposed treatments

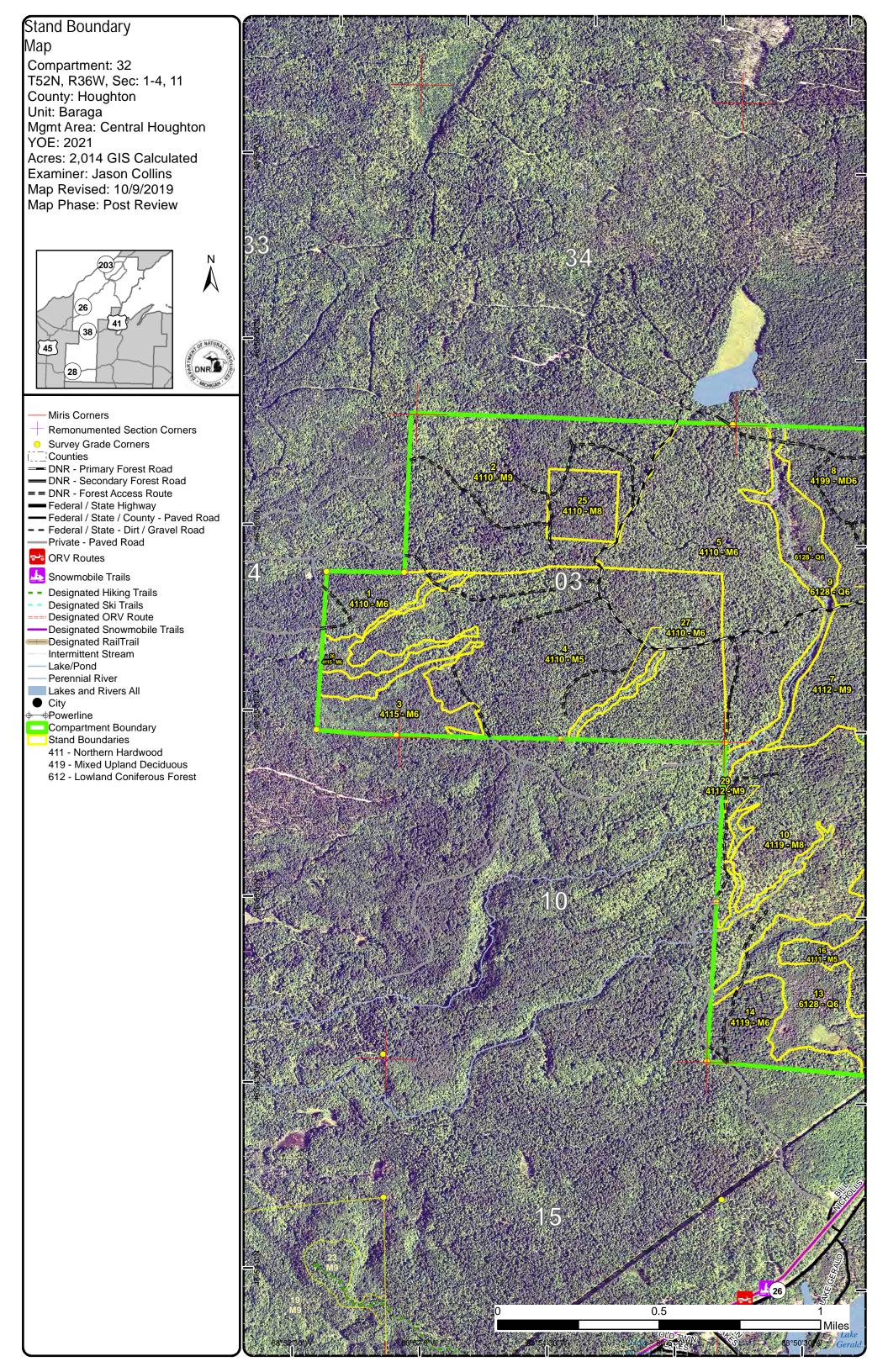
Site condition boundaries

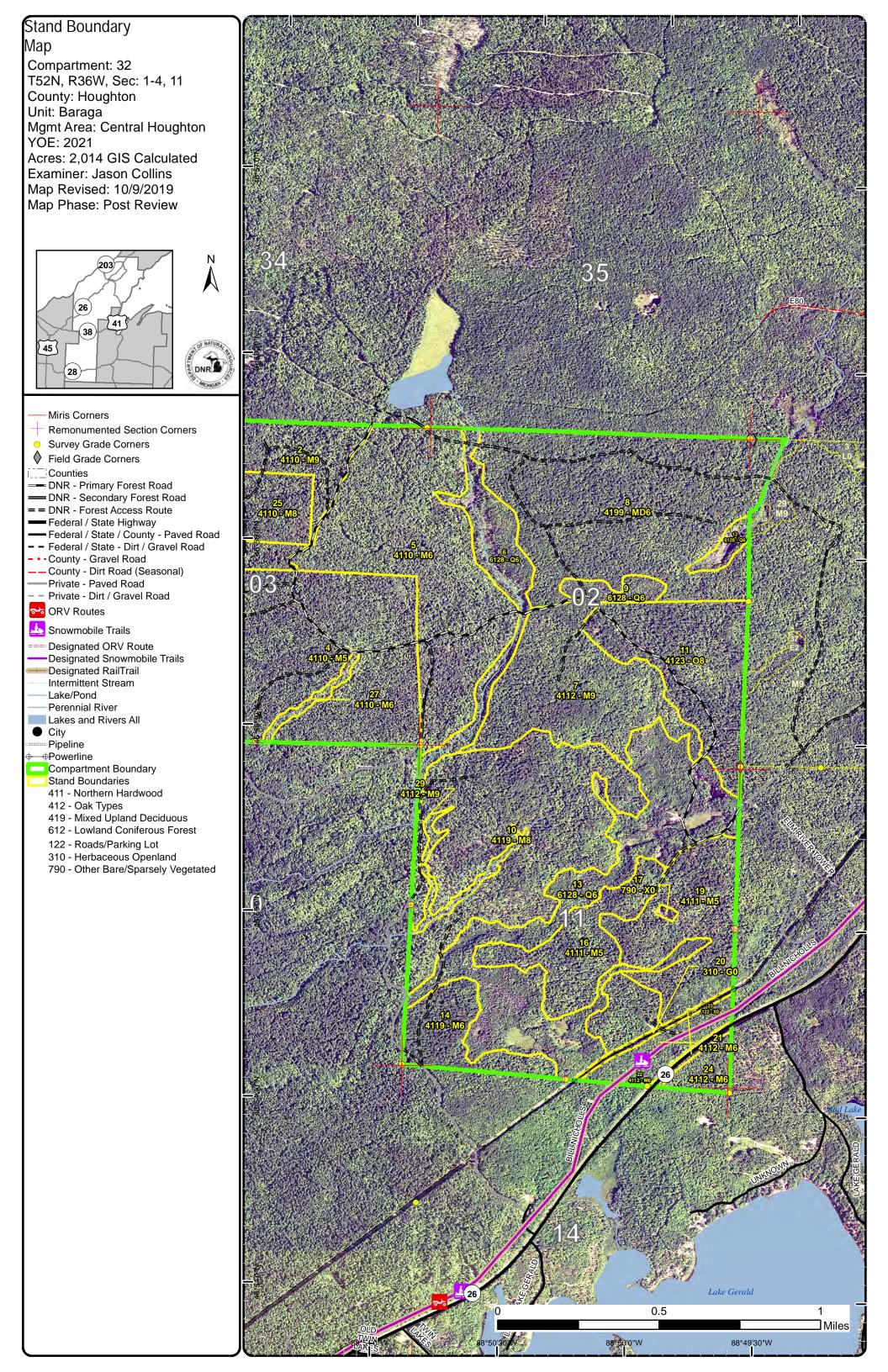
Details on the road access system

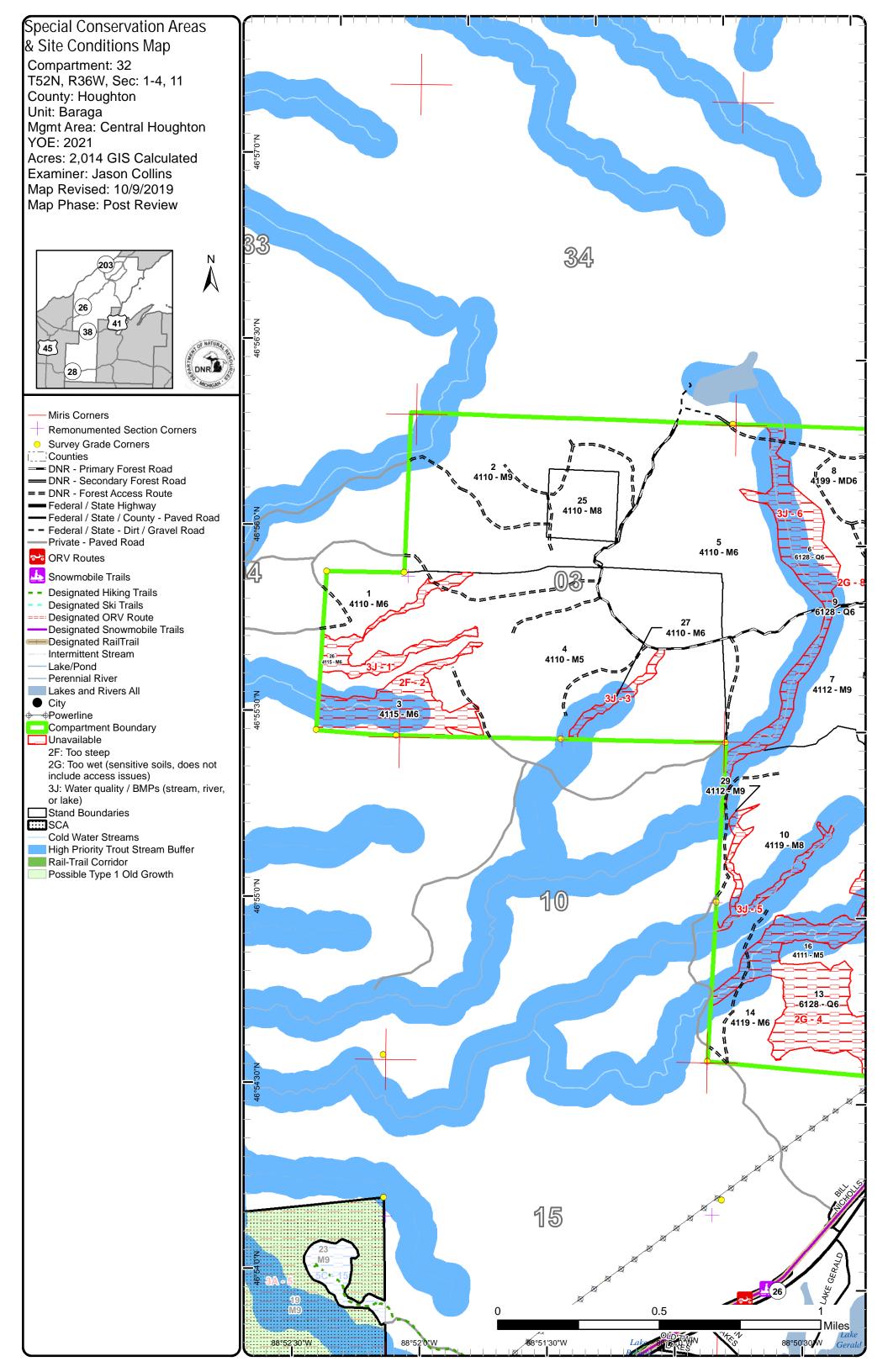


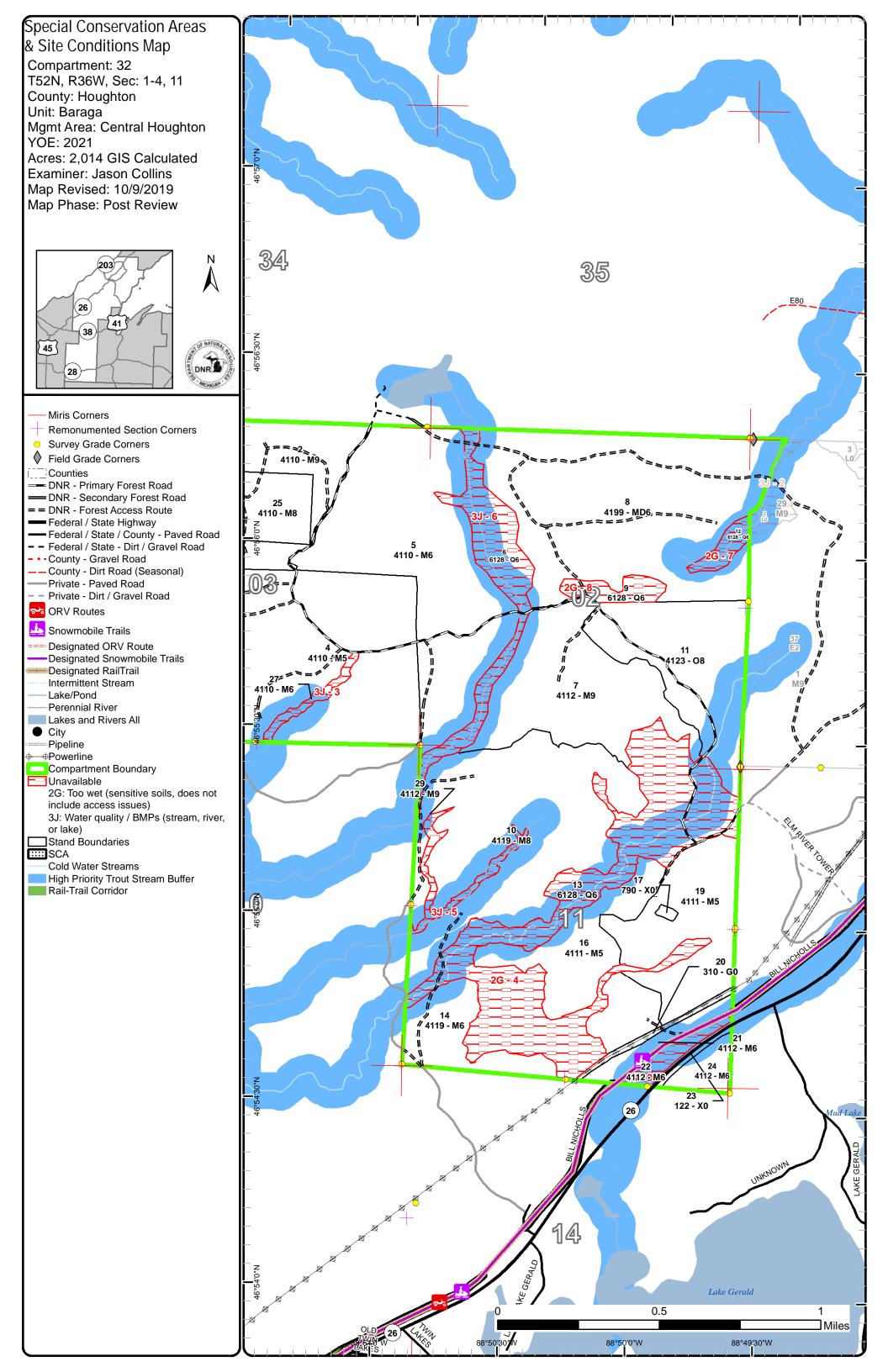












Compartment 32 Year of Entry 2021

Jason Collins: Examiner

Age Class

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		40° 5.	s ³ / s	%/		ያ /	18 / 18 ·	နှ / ့	\$ \\	^^ /s		8/	,8°/.	[®] /.	, R	,8°/.	X X	St Jugar	* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	. /
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Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	, I
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	i
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	248	248	i
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239	239	i
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1415	1415	i
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	99	ì
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	ì
Total	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2001	2013	İ
Total	12	U	U	U	U	U	U	U U	U	U	U	L ^U	U	L ^U	U	_ '	U	2001	2013	ii



Report 2 – Treatment Summary

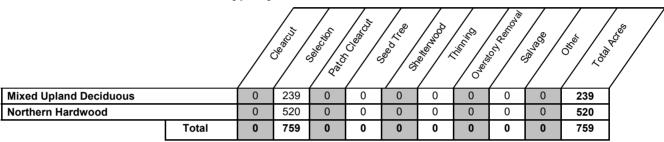
Baraga Mgt. Unit Year of Entry: 2021

Acres of Harvest

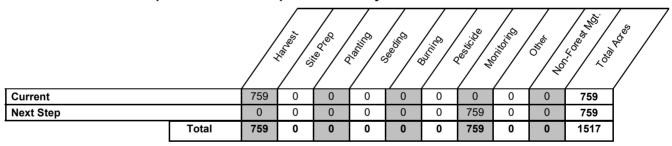
Compartment 32
Total Compartment Acres: 2,013

Commercial Harvest - 759 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Compartment: 32 Year of Entry: 2021

a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	11032002-Cut	188.3	4110 - Sugar Maple Association	Sawtimber Well	87	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be Specs: released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Other Retention: 3-10% BA will be the retention for this stand.

Comment:

Proposed Start Date: 10/1 /2020

11032005-Cut 199.1 4110 - Sugar Maple Poletimber 411 - Northern Draft Field 111-Harvest Single Tree Uneven-Association Well 140 Selection Hardwood Aged Boundary

Site Condition: **Habitat Cut: No**

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be

released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker". Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Other Retention: 3-10% BA will be the retention for this stand.

Comment:

Proposed Start Date: 10/1 /2020

11032007-Cut 117.6 4112 - Maple. Sawtimber 111-Harvest Single Tree 411 - Northern Uneven-Draft Field Beech, Cherry Well 140 Selection Hardwood Aged Boundary Association

Habitat Cut: No Site Condition:

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker". Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Retention: 3-10% BA will be the retention for this stand. Other 1 4 1

Comment:

Proposed Start Date: 10/1 /2020

11032008-Cut 239.0 4199 - Other Mixed Poletimber Draft Field 85 111-Harvest Single Tree 4199 - Other Uneven-**Upland Deciduous** Well 140 Selection Mixed Upland Aged Boundary Deciduous

Habitat Cut: No Site Condition:

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be

released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker". Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Other Retention: 3-10% BA will be the retention for this stand.

Comment:

Proposed Start Date: 10/1 /2020

Report 3 -- Treatments

Compartment: 32 Year of Entry: 2021 DNR DNR

a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
24	11032024-Cut	14.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	80	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

<u>Prescription</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be <u>Specs:</u> released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Any combination of the original stand's over story species prior to harvest.

Regen:

S

Other Retention: 3-10% BA will be the retention for this stand.

Comment:

Proposed Start Date: 10/1 /2020

Total Treatment Acreage Proposed:

758.6

Jason Collins: Examiner

Compartment: 32 Year of Entry: 2021

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Cond	ditions
Acres	Available	With Condition	Not Available		2F	2G	3J	
1	1	0	0	Bare/Sparsely Vegetated				l
6	6	0	0	Herbaceous Openland		0		
248	0	0	248	Lowland Conifers		196	53	
239	239	0	0	Mixed Upland Deciduous		0	0	
1415	1322	0	93	Northern Hardwood	43	0	50	
99	99	0	0	Oak		0		
5	5	0	0	Urban				
2,013	1,672		342	Total Forested Acres	43	196	103	
	83%		17%	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.

l (Unavailable	3J: Water quality / BMPs	19	2F. Too stoop			
		(stream, river, or lake)		2F: Too steep	Unspecified	Unspecified	Unspecified
Com	nments:						
! l	Unavailable	2F: Too steep	43	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Com	nments:						
3 L	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Com	nments:						

Report 4 – Site Conditions

Baraga Mgt. Unit

Jason Collins: Examiner

4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	175	3J: Water quality / BMPs (stream, river, or lake)	2F: Too steep	Unspecified	Unspecified
	Comments:						
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	2F: Too steep	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	53	2F: Too steep	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
	Comments:						
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						

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				

Baraga Mgt. Unit Compartment: 32
Year of Entry 2021



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	Туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen constocked trout populations and those of other coldwater fish speyear to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	cies (e.g., slimy sculpin) to persist from ese conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems 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 eff as aesthetics, habitat, bank stability, timber production, and the	ne unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well



Stand	d Level 4 C	over Type		Size Der	sity	Acres Stand Age	BA Range	Managed S	ite	General Comments
1	4110 - Sugar N	/laple Assoc	ciation	Poletimbe	er Well	31.6 77	81-110	N/A		Units 1 and 2 of T.P. Hardwoods 11-010-11
	Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size	
	Sugar Maple	80	Pole/Log	9	77	Sugar Maple	Full	Variable	Sapling	
	Red Maple	10	Pole/Log	8		Red Maple	Full	Variable	Pole	
						Yellow Birch	Low	Variable	Sapling	
						Hemlock	Low	>20 feet	Pole	
						White Ash	Low	>20 feet	Sapling	
						Ironwood	Low	>20 feet	Sapling	
2	4110 - Sugar N	/laple Assoc	ciation	Sawtimbe	r Well	188.3 87	111-140	N/A		Stand 25 was taken out of 2 for Walters research area.
	Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size	
	Sugar Maple	80	Log/Pole	12	87	Sugar Maple	Full	Variable	Sapling	
	Basswood	15	Log/Pole	11		Red Maple	Full	Variable	Sapling	
						Yellow Birch	High	Variable	Sapling	
						Basswood	High	Variable	Sapling	
						White Ash	Medium	Variable	Sapling	
						White Spruce	Medium	10 - 20 feet	Sapling	
						Ironwood	Medium	10 - 20 feet	Sapling	
3	4115 - Y.Biro	h, Hemlock	NH	Poletimbe	er Well	43.0 99	111-140	N/A		rugged
	Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size	
	Sugar Maple	30	Pole/Log	8	99	Sugar Maple	Full	Variable	Sapling	
	Red Maple	30 17	Pole/Log	8	99	Sugar Maple Red Maple	Full Full	Variable Variable	Sapling Sapling	
					99					
	Red Maple	17	Pole/Log	8	99	Red Maple	Full	Variable	Sapling	
	Red Maple Yellow Birch	17 20	Pole/Log Pole	8 7	99	Red Maple Yellow Birch	Full Medium	Variable Variable	Sapling Sapling	
4	Red Maple Yellow Birch Basswood	17 20 10 20	Pole/Log Pole Pole Log	8 7 8		Red Maple Yellow Birch Hemlock Ironwood	Full Medium Full	Variable Variable >20 feet	Sapling Sapling Pole	Harvest complete in in 2013, T. P. hardwoods 11-010-11. Observed
4	Red Maple Yellow Birch Basswood Hemlock	17 20 10 20 Maple Associ	Pole/Log Pole Pole Log	8 7 8 12	Medium	Red Maple Yellow Birch Hemlock Ironwood	Full Medium Full Low	Variable Variable >20 feet 10 - 20 feet	Sapling Sapling Pole	
4	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M	17 20 10 20 Maple Associ	Pole/Log Pole Pole Log	8 7 8 12 oletimber	Medium	Red Maple Yellow Birch Hemlock Ironwood	Full Medium Full Low 81-110	Variable Variable >20 feet 10 - 20 feet N/A	Sapling Sapling Pole Sapling	
4	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M	17 20 10 20 Maple Assoc	Pole/Log Pole Pole Log Ciation Po	8 7 8 12 oletimber	Medium Age	Red Maple Yellow Birch Hemlock Ironwood 311.2 94 Canopy Species	Full Medium Full Low 81-110 Density	Variable Variable >20 feet 10 - 20 feet N/A Avg. Height	Sapling Sapling Pole Sapling	
4	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M Canopy Species Sugar Maple	17 20 10 20 Maple Assoc % Cover 72	Pole/Log Pole Pole Log Ciation Pole Size Class Log/Pole	8 7 8 12 oletimber DBH	Medium Age	Red Maple Yellow Birch Hemlock Ironwood 311.2 94 Canopy Species Sugar Maple	Full Medium Full Low 81-110 Density Full	Variable Variable >20 feet 10 - 20 feet N/A Avg. Height Variable	Sapling Sapling Pole Sapling Size Sapling	
4	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M Canopy Species Sugar Maple Red Maple	17 20 10 20 Maple Associated 72 10	Pole/Log Pole Pole Log Size Class Log/Pole Pole/Log	8 7 8 12 oletimber DBH 14 9	Medium Age	Red Maple Yellow Birch Hemlock Ironwood 311.2 94 Canopy Species Sugar Maple Red Maple	Full Medium Full Low 81-110 Density Full Full	Variable Variable >20 feet 10 - 20 feet N/A Avg. Height Variable Variable	Sapling Sapling Pole Sapling Size Sapling Sapling	
4	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M Canopy Species Sugar Maple Red Maple	17 20 10 20 Maple Associated 72 10	Pole/Log Pole Pole Log Size Class Log/Pole Pole/Log	8 7 8 12 oletimber DBH 14 9	Medium Age	Red Maple Yellow Birch Hemlock Ironwood 311.2 94 Canopy Species Sugar Maple Red Maple Balsam Fir	Full Medium Full Low 81-110 Density Full Full Low	Variable Variable >20 feet 10 - 20 feet N/A Avg. Height Variable Variable 10 - 20 feet	Sapling Sapling Pole Sapling Size Sapling Sapling Sapling Sapling	
4	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M Canopy Species Sugar Maple Red Maple	17 20 10 20 Maple Assoc % Cover 72 10 10	Pole/Log Pole Log Size Class Log/Pole Pole/Log Log/Pole	8 7 8 12 oletimber DBH 14 9	Medium Age 94	Red Maple Yellow Birch Hemlock Ironwood 311.2 94 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock	Full Medium Full Low 81-110 Density Full Full Low Low	Variable Variable >20 feet 10 - 20 feet N/A Avg. Height Variable Variable 10 - 20 feet Variable	Sapling Sapling Pole Sapling Size Sapling Sapling Sapling Pole	
	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M Canopy Species Sugar Maple Red Maple Basswood	17 20 10 20 Maple Associated Asso	Pole/Log Pole Log Size Class Log/Pole Pole/Log Log/Pole	8 7 8 12 oletimber DBH 14 9 10	Medium Age 94	Red Maple Yellow Birch Hemlock Ironwood 311.2 94 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock Ironwood	Full Medium Full Low 81-110 Density Full Full Low Low Full	Variable Variable >20 feet 10 - 20 feet N/A Avg. Height Variable Variable 10 - 20 feet Variable 10 - 20 feet	Sapling Sapling Pole Sapling Size Sapling Sapling Sapling Pole	some top dieback and blown down timber likely from wind event in 2016
	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M Canopy Species Sugar Maple Red Maple Basswood 4110 - Sugar M	17 20 10 20 Maple Associated Asso	Pole/Log Pole Pole Log Size Class Log/Pole Pole/Log Log/Pole	8 7 8 12 oletimber DBH 14 9 10	Medium Age 94	Red Maple Yellow Birch Hemlock Ironwood 311.2 94 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock Ironwood 199.1 89	Full Medium Full Low 81-110 Density Full Full Low Low Full 111-140	Variable Variable >20 feet 10 - 20 feet N/A Avg. Height Variable 10 - 20 feet Variable 10 - 20 feet N/A	Sapling Sapling Pole Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling	some top dieback and blown down timber likely from wind event in 2016.
	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M Canopy Species Sugar Maple Red Maple Basswood 4110 - Sugar M Canopy Species	17 20 10 20 Maple Associated Asso	Pole/Log Pole Pole Log Size Class Log/Pole Pole/Log Log/Pole	8 7 8 12 oletimber DBH 14 9 10 Poletimbe	Medium Age 94 er Well Age	Red Maple Yellow Birch Hemlock Ironwood 311.2 94 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock Ironwood 199.1 89 Canopy Species	Full Medium Full Low 81-110 Density Full Full Low Low Full 111-140 Density	Variable Variable >20 feet 10 - 20 feet N/A Avg. Height Variable 10 - 20 feet Variable 10 - 20 feet N/A Avg. Height	Sapling Sapling Pole Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	some top dieback and blown down timber likely from wind event in 2016.
	Red Maple Yellow Birch Basswood Hemlock 4110 - Sugar M Canopy Species Sugar Maple Red Maple Basswood 4110 - Sugar M Canopy Species Sugar Maple	17 20 10 20 Maple Assoc 72 10 10 10 Maple Assoc % Cover 70 70	Pole/Log Pole Pole Log Size Class Log/Pole Pole/Log Log/Pole Size Class Log/Pole Log/Pole	8	Medium Age 94 er Well Age	Red Maple Yellow Birch Hemlock Ironwood 311.2 94 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock Ironwood 199.1 89 Canopy Species Sugar Maple	Full Medium Full Low 81-110 Density Full Low Low Full 111-140 Density Full	Variable Variable >20 feet 10 - 20 feet N/A Avg. Height Variable 10 - 20 feet Variable 10 - 20 feet Variable 10 - 40 feet Variable 10 - 40 feet Variable Variable 10 - 40 feet Variable Variable	Sapling Sapling Pole Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	some top dieback and blown down timber likely from wind event in 2016.



Stand	d Level 4 Co	over Type		Size Der		Acres	Stand Age	DA Runge	Managed S	ile	General Comments
6	6128 - Lowland (Dec	Coniferous, iduous	, Mixed	Poletimbe	er Well	52.8	91	81-110	N/A		Stand is variable. South is closer to a Northern Hardwoods type and the North is a Q type.
	Canopy Species	% Cover	Size Class	DBH	Age	Cano	py Species	Density	Avg. Height	Size	
	Red Maple	17	Pole	7		Re	d Maple	High	Variable	Sapling	
	White Ash	20	Pole	7		Bal	lsam Fir	High	Variable	Sapling	
	Balsam Fir	19	Pole	7			Alder	High	10 - 20 feet	Tall Shrub	
	White Spruce	21	Pole	7	91						
	Hemlock	20	Pole	7							
7	4112 - Maple, Asso	Beech, Ch ociation	nerry	Sawtimbe	r Well	117.6	95	111-140	N/A		Pinnacle hdwd 11-005-01, cut in 2002.
	Canopy Species	% Cover	Size Class	DBH	Age	Cano	py Species	Density	Avg. Height	Size	
	Sugar Maple	72	Log/Pole	13	95	Sug	ar Maple	Full	Variable	Sapling	
	Red Maple	20	Log/Pole	10		Re	d Maple	Full	Variable	Sapling	
					_	Yell	ow Birch	High	Variable	Sapling	
						Wh	nite Ash	Full	10 - 20 feet	Sapling	
								N.A Illiano	10 00 ft	Caplina	
						Bal	lsam Fir	Medium	10 - 20 feet	Sapling	
8	4199 - Other Mixe	d Upland D	eciduous	Poletimbe		239.0	85	111-140	N/A	Sapiling	Stand last harvested in 2001 under Blind Window Hardwood, Little Bear
8	Canopy Species	% Cover	Size Class	DBH		239.0 Cano	85 py Species	111-140 Density	N/A Avg. Height	Size	Stand last harvested in 2001 under Blind Window Hardwood, Little Bear Hardwood, and Screen Door Hardwood.
8	Canopy Species Sugar Maple	% Cover 25	Size Class Log/Pole	DBH		239.0 Cano Sug	85 py Species par Maple	111-140 Density Full	N/A Avg. Height Variable	Size Sapling	•
8	Canopy Species Sugar Maple Red Maple	% Cover 25 15	Size Class Log/Pole Pole	DBH 11 8	Age	239.0 Cano Sug Re	85 py Species par Maple d Maple	111-140 Density Full Full	N/A Avg. Height Variable Variable	Size Sapling Sapling	•
8	Canopy Species Sugar Maple	% Cover 25	Size Class Log/Pole	DBH		239.0 Cano Sug Re	85 py Species par Maple d Maple ed Oak	111-140 Density Full Full Medium	N/A Avg. Height Variable Variable 5 - 10 feet	Size Sapling Sapling Sapling	•
8	Canopy Species Sugar Maple Red Maple	% Cover 25 15	Size Class Log/Pole Pole	DBH 11 8	Age	239.0 Cano Sug Re Re	85 py Species par Maple d Maple ed Oak lsam Fir	111-140 Density Full Full Medium Low	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling	•
8	Canopy Species Sugar Maple Red Maple	% Cover 25 15	Size Class Log/Pole Pole	DBH 11 8	Age	239.0 Cano Sug Re- Re Bal	85 py Species par Maple d Maple ed Oak Isam Fir emlock	Density Full Full Medium Low Medium	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling	•
8	Canopy Species Sugar Maple Red Maple	% Cover 25 15	Size Class Log/Pole Pole	DBH 11 8	Age	239.0 Cano Sug Re- Re- Bal He	85 py Species par Maple d Maple ed Oak Isam Fir emlock pnwood	Density Full Full Medium Low Medium Medium Medium	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	•
8	Canopy Species Sugar Maple Red Maple	% Cover 25 15	Size Class Log/Pole Pole	DBH 11 8	Age	239.0 Cano Sug Re- Re- Bal He	85 py Species par Maple d Maple ed Oak Isam Fir emlock	Density Full Full Medium Low Medium	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling	•
9	Canopy Species Sugar Maple Red Maple Red Oak 6128 - Lowland	% Cover 25 15 50	Size Class Log/Pole Pole Log	DBH 11 8	Age 85	239.0 Cano Sug Re- Re- Bal He	85 py Species par Maple d Maple ed Oak Isam Fir emlock pnwood	Density Full Full Medium Low Medium Medium Medium	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	•
	Canopy Species Sugar Maple Red Maple Red Oak 6128 - Lowland	% Cover 25 15 50 Coniferous, iduous	Size Class Log/Pole Pole Log	DBH 11 8 14 Poletimbe	85	239.0 Cano Sug Re Re Bal He Irc Yell	85 py Species par Maple d Maple ed Oak Isam Fir emlock pnwood low Birch	111-140 Density Full Full Medium Low Medium Medium Low Medium Low	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet 10 - 20 feet Variable	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	•
	Canopy Species Sugar Maple Red Maple Red Oak 6128 - Lowland o	% Cover 25 15 50 Coniferous, iduous	Size Class Log/Pole Pole Log	DBH 11 8 14 Poletimbe	85	239.0 Cano Sug Re Re Bal He Irc Yell 12.4 Cano	py Species par Maple d Maple ed Oak lsam Fir emlock onwood low Birch	111-140 Density Full Full Medium Low Medium Medium Low 51-80	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet Variable Variable N/A	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	•
9	Canopy Species Sugar Maple Red Maple Red Oak 6128 - Lowland Obeco	% Cover 25 15 50 Coniferous, iduous % Cover	Size Class Log/Pole Pole Log Mixed Size Class	DBH 11 8 14 14 Poletimbe	85	239.0 Cano Sug Re Re Bal He Irc Yell 12.4 Cano Sug	py Species par Maple d Maple ed Oak lsam Fir emlock onwood ow Birch 113 py Species	111-140 Density Full Full Medium Low Medium Medium Low Density	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet Variable N/A Avg. Height	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	•
9	Canopy Species Sugar Maple Red Maple Red Oak 6128 - Lowland Obeco Canopy Species Red Maple	% Cover 25 15 50 Coniferous, iduous % Cover 15	Size Class Log/Pole Pole Log Mixed Size Class Pole	DBH	85	239.0 Cano Sug Re Re Bal He Irc Yell 12.4 Cano Sug Re	py Species par Maple d Maple ed Oak lsam Fir emlock pnwood low Birch 113 py Species par Maple	111-140 Density Full Full Medium Low Medium Low S1-80 Density Full	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet Variable N/A Avg. Height Variable	Size Sapling	•
9	Canopy Species Sugar Maple Red Maple Red Oak 6128 - Lowland O Deci Canopy Species Red Maple orthern White Cedar	% Cover	Size Class Log/Pole Pole Log Mixed Size Class Pole Pole	DBH	85 er Well	239.0 Cano Sug Re Re Bal He Irc Yell 12.4 Cano Sug Re-	85 py Species lar Maple d Maple ed Oak Isam Fir emlock onwood low Birch 113 py Species lar Maple d Maple	111-140 Density Full Full Medium Low Medium Low 51-80 Density Full Full	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet Variable N/A Avg. Height Variable Variable	Size Sapling	•
9	Canopy Species Sugar Maple Red Maple Red Oak 6128 - Lowland O Deci Canopy Species Red Maple orthern White Cedar	% Cover	Size Class Log/Pole Pole Log Mixed Size Class Pole Pole	DBH	85 er Well	239.0 Cano Sug Re Re Bal He Irc Yell 12.4 Cano Sug Re Yell Bal	85 py Species lar Maple d Maple ed Oak Isam Fir emlock provided by Birch 113 py Species lar Maple d Maple d Maple low Birch	111-140 Density Full Full Medium Low Medium Low 51-80 Density Full Full High	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet Variable N/A Avg. Height Variable Variable Variable Variable	Size Sapling	•
9	Canopy Species Sugar Maple Red Maple Red Oak 6128 - Lowland O Deci Canopy Species Red Maple orthern White Cedar	% Cover	Size Class Log/Pole Pole Log Mixed Size Class Pole Pole	DBH	85 er Well	239.0 Cano Sug Re Re Bal He Irc Yell 12.4 Cano Sug Re Yell Bal Northern	85 py Species lar Maple d Maple ed Oak Isam Fir emlock onwood ow Birch 113 py Species lar Maple d Maple low Birch lsam Fir	111-140 Density Full Full Medium Low Medium Low 51-80 Density Full Full High	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet Variable N/A Avg. Height Variable Variable Variable Variable 10 - 20 feet	Size Sapling	•
9	Canopy Species Sugar Maple Red Maple Red Oak 6128 - Lowland O Deci Canopy Species Red Maple orthern White Cedar	% Cover	Size Class Log/Pole Pole Log Mixed Size Class Pole Pole	DBH	85 er Well	239.0 Cano Sug Re Re Bal He Irc Yell 12.4 Cano Sug Re Yell Bal Northern He Irc	py Species par Maple d Maple ed Oak lsam Fir emlock powood low Birch 113 py Species par Maple d Maple low Birch lsam Fir white Cedan	111-140 Density Full Full Medium Low Medium Low 51-80 Density Full Full High High Medium	N/A Avg. Height Variable Variable 5 - 10 feet 10 - 20 feet 10 - 20 feet Variable N/A Avg. Height Variable Variable Variable Variable 10 - 20 feet 10 - 20 feet	Size Sapling	Hardwood, and Screen Door Hardwood.

Report 7 - Stands



Stanc	Level 4 C	over Type		Size Dens	sity	Acres Stand Age B	BA Range	Managed S	Site	General Comments	MICHIGAN
10	4119 - Mixed No	orthern Har	dwoods Sa	wtimber M	ledium	201.1 87	51-80	N/A		Cut in 2014-2015 under Elm River Hardwoods 11-012-11.	
	Canopy Species	% Cover	Size Class	DBH A	Age	Canopy Species	Density	Avg. Height	Size		
	Sugar Maple	45	Log	13	87	Sugar Maple	Full	Variable	Sapling		
	Red Maple	15	Log/Pole	11		Red Maple	Full	Variable	Sapling		
	Red Oak	30	Log/Pole/XLog	g 16		Yellow Birch	Medium	Variable	Sapling		
						Red Oak	Low	10 - 20 feet	Sapling		
						Hemlock	Low	10 - 20 feet	Sapling		
						Ironwood	Medium	10 - 20 feet	Sapling		
11	4123 -	Red Oak	Sa	wtimber M	1edium	98.9 90	51-80	N/A		Harvested under B.O.B. (big Oak Block) 11-011-11.	
	Canopy Species	% Cover	Size Class	DBH A	\ge	Canopy Species	Density	Avg. Height	Size		
	Sugar Maple	15	Pole/Log	9		Sugar Maple	Full	Variable	Sapling		
	Red Maple	10	Pole/Log	8		Red Maple	Full	Variable	Sapling		
	Red Oak	62	Log	16	90	Yellow Birch	Full	Variable	Sapling		
						Balsam Fir	Low	10 - 20 feet	Sapling		
						Ironwood	Full	10 - 20 feet	Sapling		
12	6128 - Lowland	Coniferous	, Mixed P	oletimber	Well	8.6 113	51-80	N/A			
12	Dec	iduous								1	
12	Dec Canopy Species	% Cover	Size Class	DBH A	\ge	Canopy Species	Density	Avg. Height	Size		
	Canopy Species Red Maple	% Cover 15	Pole	7	Age	Sugar Maple	Full	Variable	Sapling		
	Canopy Species Red Maple orthern White Cedar	% Cover 15 20	Pole Pole	7 7		Sugar Maple Red Maple	Full Full	Variable Variable	Sapling Sapling		
	Canopy Species Red Maple	% Cover 15	Pole	7 7	Age	Sugar Maple Red Maple Yellow Birch	Full Full High	Variable Variable Variable	Sapling Sapling Sapling		
	Canopy Species Red Maple orthern White Cedar	% Cover 15 20	Pole Pole	7 7		Sugar Maple Red Maple Yellow Birch Balsam Fir	Full Full High	Variable Variable Variable 10 - 20 feet	Sapling Sapling Sapling Sapling		
	Canopy Species Red Maple orthern White Cedar	% Cover 15 20	Pole Pole	7 7		Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar	Full Full High High Medium	Variable Variable Variable 10 - 20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling		
	Canopy Species Red Maple orthern White Cedar	% Cover 15 20	Pole Pole	7 7		Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock	Full Full High High Medium Full	Variable Variable Variable 10 - 20 feet Variable	Sapling Sapling Sapling Sapling Sapling Sapling Sapling		
	Canopy Species Red Maple orthern White Cedar	% Cover 15 20	Pole Pole	7 7		Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood	Full High High Medium Full High	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling		
	Canopy Species Red Maple orthern White Cedar	% Cover 15 20	Pole Pole	7 7		Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock	Full Full High High Medium Full	Variable Variable Variable 10 - 20 feet Variable	Sapling Sapling Sapling Sapling Sapling Sapling Sapling		
	Canopy Species Red Maple orthern White Cedar Hemlock	% Cover 15 20 50	Pole Pole Pole/Log	7 7	1113	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder	Full High High Medium Full High	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Stand is variable throughout.	
No	Canopy Species Red Maple orthern White Cedar Hemlock	% Cover 15 20 50 Coniferous iduous	Pole Pole Pole/Log	7 7 9 1	Well	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder	Full High High Medium Full High Medium	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling		
No	Canopy Species Red Maple orthern White Cedar Hemlock 6128 - Lowland	% Cover 15 20 50 Coniferous iduous	Pole Pole/Log Mixed P	7 7 9 1	Well	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder	Full Full High High Medium Full High Medium	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub		
No	Canopy Species Red Maple orthern White Cedar Hemlock 6128 - Lowland of Dec	% Cover 15 20 50 Coniferous iduous % Cover 10 11	Pole Pole/Log Mixed P	7 7 9 1	Well	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder 174.5 140 Canopy Species	Full High Medium Full High Medium 111-140 Pensity	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet Variable 10 - 20 feet N/A Avg. Height	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub		
No	Canopy Species Red Maple orthern White Cedar Hemlock 6128 - Lowland Opec Canopy Species Sugar Maple	% Cover 15 20 50 Coniferous iduous % Cover 10	Pole Pole/Log Mixed Pole Size Class Pole	7 7 9 1	Well	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder 174.5 140 Canopy Species Sugar Maple	Full High High Medium Full High Medium Tull High Medium 111-140 Density Medium	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet Variable 10 - 10 feet N/A Avg. Height Variable	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub		
No	Canopy Species Red Maple orthern White Cedar Hemlock 6128 - Lowland of Dec Canopy Species Sugar Maple Red Maple	% Cover 15 20 50 Coniferous iduous % Cover 10 11	Pole Pole/Log Mixed Pole Size Class Pole Pole	7 7 9 1 Poletimber DBH A 7 8	Well	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder 174.5 140 Canopy Species Sugar Maple Red Maple	Full High High Medium Full High Medium 111-140 Pensity Medium Full	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet 5 - 10 feet N/A Avg. Height Variable Variable	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub		
Na 13	Canopy Species Red Maple orthern White Cedar Hemlock 6128 - Lowland of Dec Canopy Species Sugar Maple Red Maple Balsam Fir	% Cover	Pole Pole/Log Mixed Pole Size Class Pole Pole Pole	7 7 9 1 Poletimber DBH A 7 8 6	Well	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder 174.5 140 Canopy Species Sugar Maple Red Maple White Ash	Full High High Medium Full High Medium 111-140 Pensity Medium Full Low	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub Size Sapling Sapling Sapling		
Na 13	Canopy Species Red Maple orthern White Cedar Hemlock 6128 - Lowland Dec Canopy Species Sugar Maple Red Maple Balsam Fir White Spruce	% Cover	Pole Pole Pole/Log Mixed Pole Pole Pole Pole Pole Pole	7 7 9 1 Poletimber DBH A 6 8 6 8 6	Well	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder 174.5 140 Canopy Species Sugar Maple Red Maple White Ash Balsam Fir	Full Full High High Medium Full High Medium 111-140 Pensity Medium Full Low Full	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet 5 - 10 feet N/A Avg. Height Variable Variable Variable Variable Variable	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling		
Na 13	Canopy Species Red Maple orthern White Cedar Hemlock 6128 - Lowland Dec Canopy Species Sugar Maple Red Maple Balsam Fir White Spruce orthern White Cedar	% Cover	Pole Pole Pole/Log Mixed Pole Size Class Pole Pole Pole Pole Pole Pole	7 7 9 1 Poletimber DBH A 6 8 6 8 6	Well	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder 174.5 140 Canopy Species Sugar Maple Red Maple White Ash Balsam Fir White Spruce	Full High High Medium Full High Medium 111-140 Pensity Medium Full Low Full Medium	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet 5 - 10 feet N/A Avg. Height Variable Variable Variable Variable 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling		
Na 13	Canopy Species Red Maple orthern White Cedar Hemlock 6128 - Lowland Dec Canopy Species Sugar Maple Red Maple Balsam Fir White Spruce orthern White Cedar	% Cover	Pole Pole Pole/Log Mixed Pole Size Class Pole Pole Pole Pole Pole Pole	7 7 9 1 Poletimber DBH A 6 8 6 8 6	Well	Sugar Maple Red Maple Yellow Birch Balsam Fir Northern White Cedar Hemlock Ironwood Alder 174.5 140 Canopy Species Sugar Maple Red Maple White Ash Balsam Fir White Spruce Northern White Cedar	Full High High Medium Full High Medium 111-140 Pensity Medium Full Low Full Medium Medium Medium	Variable Variable Variable 10 - 20 feet 10 - 20 feet Variable 10 - 20 feet 5 - 10 feet N/A Avg. Height Variable Variable Variable Variable Variable 10 - 20 feet >20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrut Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Pole		



Stand	Level 4 Co	over Type		Size De		Acres Stand Age		Managed S	110	General Comments
14	4119 - Mixed No	orthern Hard	dwoods	Poletimb	er Well	43.1 91	81-110	N/A		Stand was harvested under Elm River Hardwoods 11-012-11 in the 201
	Canopy Species	% Cover	Size Class	DBH	l Age	Canopy Species	Density	Avg. Height	Size	Year of entry.
	Sugar Maple	60	Pole/Log	9	91	Sugar Maple	Full	Variable	Sapling	
	Red Maple	15	Pole	7		Red Maple	Full	Variable	Pole	
	Red Oak	8	Log	14		White Ash	Medium	10 - 20 feet	Sapling	
						Red Oak	Medium	5 - 10 feet	Sapling	
						Balsam Fir	Medium	10 - 20 feet	Sapling	
						Ironwood	Medium	10 - 20 feet	Sapling	
16	4111 - S.Maple, Ha	ard Mast As	ssociation Po	oletimbe	r Medium	82.2 91	51-80	N/A		Harvested as part of Shawmut Creek Hardwoods 11-013-11 in Year of
	Canopy Species	% Cover	Size Class	DBH	l Age	Canopy Species	Density	Avg. Height	Size	Entry 2011.
	Sugar Maple	55	Log/Pole	12	91	Sugar Maple	Medium	Variable	Sapling	
	Red Maple	20	Log/Pole	12		Red Maple	Medium	Variable	Pole	
	Red Oak	10	Log	16		White Ash	Medium	Variable	Sapling	
						Red Oak	Medium	10 - 20 feet	Sapling	
						Balsam Fir	Medium	10 - 20 feet	Sapling	
						Ironwood	High	10 - 20 feet	Sapling	
	790 - Other Bare/			Nonst		1.3	Unspecified	No	Sapling	Mine shaft and rock pile.
	4111 - S.Maple, Ha	ard Mast As	ssociation Po	oletimbe	r Medium	1.3 88.1 77	Unspecified 81-110	No N/A		Mine shaft and rock pile. Mine shafts within stand, rough ground. Harvested as part of Shawmut Creek Hardwoods 11-013-11 as part of 2011 Year of entry.
	4111 - S.Maple, Ha	ard Mast As	ssociation Po	oletimbe DBH	r Medium	1.3 88.1 77 Canopy Species	Unspecified 81-110 Density	No N/A Avg. Height	Size	Mine shafts within stand, rough ground. Harvested as part of Shawmut
	4111 - S.Maple, Ha Canopy Species Sugar Maple	ard Mast As % Cover	ssociation Po Size Class Pole/Log	oletimbe	r Medium	1.3 88.1 77 Canopy Species Sugar Maple	Unspecified 81-110	No N/A	Size Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut
	4111 - S.Maple, Ha	% Cover	ssociation Po Size Class Pole/Log Pole/Log	DBH 9	r Medium	1.3 88.1 77 Canopy Species	Unspecified 81-110 Density Full	No N/A Avg. Height Variable Variable	Size Sapling Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut
	4111 - S.Maple, Ha Canopy Species Sugar Maple Red Maple	ard Mast As % Cover	Size Class Pole/Log Pole/Log Log/Pole	oletimbe DBH	r Medium	1.3 88.1 77 Canopy Species Sugar Maple Red Maple	Unspecified 81-110 Density Full Full	No N/A Avg. Height Variable	Size Sapling Sapling Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut
17	4111 - S.Maple, Ha Canopy Species Sugar Maple Red Maple Basswood	### Assert Asser	ssociation Po Size Class Pole/Log Pole/Log	Dietimbe DBH 9 9 12	r Medium	1.3 88.1 77 Canopy Species Sugar Maple Red Maple Balsam Fir	Unspecified 81-110 Density Full Full Low	No N/A Avg. Height Variable Variable 10 - 20 feet	Size Sapling Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut
	4111 - S.Maple, Ha Canopy Species Sugar Maple Red Maple Basswood	% Cover 50 20 13 15	Size Class Pole/Log Pole/Log Log/Pole Log/Pole	Dietimbe DBH 9 9 12	r Medium	1.3 88.1 77 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock	Unspecified 81-110 Density Full Full Low Low	No N/A Avg. Height Variable Variable 10 - 20 feet >20 feet	Size Sapling Sapling Sapling Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut
19	4111 - S.Maple, Ha Canopy Species Sugar Maple Red Maple Basswood Red Oak 310 - Herback 4112 - Maple,	### Ast Ast Ast	Size Class Pole/Log Pole/Log Log/Pole Log/Pole	DBH 9 9 12 12	r Medium H Age 77	1.3 88.1 77 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock Ironwood	Unspecified 81-110 Density Full Full Low Low Full	No N/A Avg. Height Variable Variable 10 - 20 feet >20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut Creek Hardwoods 11-013-11 as part of 2011 Year of entry.
19	4111 - S.Maple, Ha Canopy Species Sugar Maple Red Maple Basswood Red Oak 310 - Herback 4112 - Maple,	ard Mast As Cover 50 20 13 15 eous Open Beech, Chociation	Size Class Pole/Log Pole/Log Log/Pole Log/Pole	Dietimbe DBH 9 9 12 12 Nonsta	r Medium H Age 77	1.3 88.1 77 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock Ironwood 5.7	Unspecified 81-110 Density Full Full Low Low Full Unspecified	No N/A Avg. Height Variable Variable 10 - 20 feet >20 feet 10 - 20 feet	Size Sapling Sapling Sapling Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut Creek Hardwoods 11-013-11 as part of 2011 Year of entry. Power line Last Harvested as part of Shawmut Creek Hardwoods 11-013-11 in the
19	4111 - S.Maple, Ha Canopy Species Sugar Maple Red Maple Basswood Red Oak 310 - Herbace 4112 - Maple, Asso	ard Mast As Cover 50 20 13 15 eous Open Beech, Chociation	Size Class Pole/Log Pole/Log Log/Pole Log/Pole	Dietimbe DBH 9 9 12 12 Nonsta	r Medium 1 Age 77 77 pocked	1.3 88.1 77 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock Ironwood 5.7	Unspecified 81-110 Density Full Low Low Full Unspecified 81-110	No N/A Avg. Height Variable Variable 10 - 20 feet >20 feet 10 - 20 feet No N/A	Size Sapling Sapling Sapling Sapling Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut Creek Hardwoods 11-013-11 as part of 2011 Year of entry. Power line Last Harvested as part of Shawmut Creek Hardwoods 11-013-11 in the
19	4111 - S.Maple, Ha Canopy Species Sugar Maple Red Maple Basswood Red Oak 310 - Herbace 4112 - Maple, Asso Canopy Species	ard Mast As Cover 50 20 13 15 eous Open Beech, Chociation Cover	Size Class Pole/Log Pole/Log Log/Pole Log/Pole	DIBH 9 9 12 12 Nonsta	r Medium 1 Age 77 00000000000000000000000000000000000	1.3 88.1 77 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock Ironwood 5.7 15.8 73 Canopy Species	Unspecified 81-110 Density Full Low Low Full Unspecified 81-110 Density	No N/A Avg. Height Variable Variable 10 - 20 feet >20 feet No N/A Avg. Height	Size Sapling Sapling Sapling Sapling Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut Creek Hardwoods 11-013-11 as part of 2011 Year of entry. Power line Last Harvested as part of Shawmut Creek Hardwoods 11-013-11 in the
19	4111 - S.Maple, Ha Canopy Species Sugar Maple Red Maple Basswood Red Oak 310 - Herbace 4112 - Maple, Asso Canopy Species Sugar Maple	ard Mast As Cover 50 20 13 15 eous Open Beech, Crociation Cover 50	Size Class Pole/Log Pole/Log Log/Pole Log/Pole land serry Size Class Pole	DIBHOLD POLETIME DBH ODBH O	r Medium 1 Age 77 00000000000000000000000000000000000	1.3 88.1 77 Canopy Species Sugar Maple Red Maple Balsam Fir Hemlock Ironwood 5.7 15.8 73 Canopy Species Sugar Maple	Unspecified 81-110 Density Full Low Low Full Unspecified 81-110 Density High	No N/A Avg. Height Variable 10 - 20 feet >20 feet No N/A Avg. Height Variable	Size Sapling Sapling Sapling Sapling Sapling Sapling	Mine shafts within stand, rough ground. Harvested as part of Shawmut Creek Hardwoods 11-013-11 as part of 2011 Year of entry. Power line Last Harvested as part of Shawmut Creek Hardwoods 11-013-11 in the

Report 7 - Stands



Stand	Level 4 Cover Type 4112 - Maple, Beech, Cherry Association			Size Density Poletimber Well		Acres	Acres Stand Age BA		A Range Managed Site		General Comments	
22						l 12.7	80	51-80	N/A		Misery river runs the length of the stand Trail (old RR grade) and highway. Wet creek bottom.	
	Canopy Species	% Cover	Size Class	DBI	H Age	Can	opy Species	Density	Avg. Height	Size		
	Sugar Maple	48	Pole	8	80	Su	gar Maple	High	Variable	Pole		
	Red Maple	40	Pole	8		R	ed Maple	High	Variable	Pole		
						В	alsam Fir	Low	5 - 10 feet	Sapling		
						I	ronwood	Low	< 5 feet	Sapling		
							Alder	Medium	10 - 20 feet	Tall Shrub		
23	122 - Road/Parking Lot			Nonstocked		4.9		Unspecified	No		M-26 hwy	
24	4112 - Maple, Beech, Cherry Association			Poletimber Well		I 14.6	80	111-140	N/A		cut in 2002	
	Canopy Species	% Cover	Size Class	DBI	H Age	Can	opy Species	Density	Avg. Height	Size		
	Sugar Maple	40	Pole	7		Su	gar Maple	Full	Variable	Sapling		
	Red Maple	55	Pole	7	80	R	ed Maple	Full	Variable	Sapling		
						Ye	llow Birch	Medium	10 - 20 feet	Sapling		
						F	Red Oak	High	Variable	Sapling		
								1 11911	Variable	Capiling		
							alsam Fir	Medium	10 - 20 feet	Sapling		
25	4110 - Sugar N	/laple Assoc	ciation S	awtimbe	r Mediu	В					2018: Lake Effect MWR, cut in winter 2017-18.	
25	4110 - Sugar M		ciation S		r Mediu	m 29.3	alsam Fir	Medium 51-80	10 - 20 feet		2018: Lake Effect MWR, cut in winter 2017-18.	
25						m 29.3 Can	alsam Fir 87	Medium 51-80	10 - 20 feet N/A	Sapling	2018: Lake Effect MWR, cut in winter 2017-18.	
25	Canopy Species	% Cover	Size Class	DBI	H Age	Im 29.3 Can	87 opy Species	Medium 51-80 Density	10 - 20 feet N/A Avg. Height	Sapling	2018: Lake Effect MWR, cut in winter 2017-18.	
25	Canopy Species Sugar Maple	% Cover	Size Class Log/Pole	DB I	H Age	m 29.3 Can Su	87 opy Species gar Maple	51-80 Density Full	10 - 20 feet N/A Avg. Height Variable	Sapling Size Sapling	2018: Lake Effect MWR, cut in winter 2017-18.	
25	Canopy Species Sugar Maple	% Cover	Size Class Log/Pole	DB I	H Age	Im 29.3 Can Su R Ye	87 Dpy Species gar Maple ed Maple	51-80 Density Full Full	N/A Avg. Height Variable Variable	Sapling Size Sapling Sapling Sapling Sapling Sapling	2018: Lake Effect MWR, cut in winter 2017-18.	
25	Canopy Species Sugar Maple	% Cover	Size Class Log/Pole	DB I	H Age	m 29.3 Can Su R Ye	87 ppy Species gar Maple ed Maple illow Birch	51-80 Density Full Full High	N/A Avg. Height Variable Variable Variable	Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling	2018: Lake Effect MWR, cut in winter 2017-18.	
25	Canopy Species Sugar Maple	% Cover	Size Class Log/Pole	DB I	H Age	m 29.3 Can Su R Ye	87 opy Species gar Maple ed Maple ellow Birch asswood	51-80 Density Full Full High High	N/A Avg. Height Variable Variable Variable Variable	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2018: Lake Effect MWR, cut in winter 2017-18.	
25	Canopy Species Sugar Maple	% Cover	Size Class Log/Pole	DB I	H Age	m 29.3 Can Su R Ye B W	87 opy Species gar Maple ed Maple elllow Birch asswood //hite Ash	51-80 Density Full Full High High Medium	N/A Avg. Height Variable Variable Variable Variable Variable Variable	Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling	2018: Lake Effect MWR, cut in winter 2017-18.	
25	Canopy Species Sugar Maple	% Cover 80 15	Size Class Log/Pole Log/Pole	DB I	87	Barran 29.3 Cannon Su R Ye B W Wh	87 Dpy Species gar Maple ed Maple ellow Birch asswood /hite Ash ite Spruce	51-80 Density Full Full High High Medium Medium	N/A Avg. Height Variable Variable Variable Variable Variable 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2018: Lake Effect MWR, cut in winter 2017-18.	
	Canopy Species Sugar Maple Basswood	% Cover 80 15	Size Class Log/Pole Log/Pole	DBI 8 8	87	Barrier 29.3 Cane Su R Yee B W Wh	87 DPY Species gar Maple ed Maple ellow Birch asswood //hite Ash ite Spruce ronwood	51-80 Density Full Full High High Medium Medium Medium Medium	N/A Avg. Height Variable Variable Variable Variable Variable 10 - 20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling		
	Canopy Species Sugar Maple Basswood 4115 - Y.Biro	% Cover 80 15	Size Class Log/Pole Log/Pole	DBI 8 8	87 87	Barrier 29.3 Cannot Su R Ye B W Wh II 19.4 Cannot Su Cannot Su R R Cannot Su R R R Ye Cannot Su R R R R R R R R R R R R R R R R R R R	87 ppy Species gar Maple ed Maple ellow Birch asswood //hite Ash hite Spruce ronwood	51-80 Density Full Full High High Medium Medium Medium 111-140	N/A Avg. Height Variable Variable Variable Variable Variable 10 - 20 feet 10 - 20 feet	Sapling		
	Canopy Species Sugar Maple Basswood 4115 - Y.Bird Canopy Species	% Cover 80 15 15 ch, Hemlock	Size Class Log/Pole Log/Pole	DBI 8 8 8	87 Ber Wel	Barrier 29.3 Cane Su R Ye B W Wr II 19.4 Cane Su	alsam Fir 87 ppy Species gar Maple ed Maple illow Birch asswood /hite Ash ite Spruce ronwood 99 ppy Species	51-80 Density Full Full High High Medium Medium Medium 111-140 Density	N/A Avg. Height Variable Variable Variable Variable Variable 10 - 20 feet 10 - 20 feet N/A Avg. Height	Sapling		
	Canopy Species Sugar Maple Basswood 4115 - Y.Birc Canopy Species Sugar Maple	% Cover 80 15 sh, Hemlock % Cover	Size Class Log/Pole Log/Pole C NH Size Class Pole	DBH 8 8	87 Ber Wel	But 29.3 Canim 29.3 Su R Ye B W Wr II 19.4 Canim Su	alsam Fir 87 ppy Species gar Maple ed Maple elllow Birch asswood /hite Ash ite Spruce ronwood 99 ppy Species gar Maple	51-80 Density Full Full High High Medium Medium Medium 111-140 Density Full	N/A Avg. Height Variable Variable Variable Variable Variable 10 - 20 feet 10 - 20 feet N/A Avg. Height Variable	Sapling		
	Canopy Species Sugar Maple Basswood 4115 - Y.Birc Canopy Species Sugar Maple Red Maple	% Cover 80 15 15 h, Hemlock % Cover 30 17	Size Class Log/Pole Log/Pole Size Class Pole Pole	DBH	87 Ber Wel	Barrell Barrel	alsam Fir 87 ppy Species gar Maple ed Maple ellow Birch asswood /hite Ash ite Spruce ronwood 99 ppy Species gar Maple ed Maple	51-80 Density Full Full High High Medium Medium Medium 111-140 Density Full Full Full	N/A Avg. Height Variable Variable Variable Variable Variable 10 - 20 feet 10 - 20 feet N/A Avg. Height Variable Variable	Sapling		

Report 7 - Stands



Stand	Level 4 Cover Type			Size Density		Acres Stand	Age BA Range	A Range Managed Site		General Comments	MICHIGAN .
27	4110 - Sugar Maple Association			Poletimber Well		6.5 94	81-110	N/A		Stand was created from stand 4.	
	Canopy Species	% Cover	Size Class	DBH	I Age	Canopy Spec	ies Density	Avg. Height	Size		
	Sugar Maple	76	Log/Pole	10	94	Sugar Maple	e High	10 - 20 feet	Sapling		
	Red Oak	10	Log/Pole	12		Red Maple	Medium	Variable	Sapling		
					<u> </u>	Balsam Fir	Low	Variable	Sapling		
						Ironwood	High	10 - 20 feet	Sapling		
29	4112 - Maple, Beech, Cherry Association			Sawtimber Well							
			erry	Sawtimb	er Well	11.7 87	81-110	N/A		Area taken out of larger hardwood stand.	
	Canopy Species		•		er Well	11.7 87 Canopy Spec		N/A Avg. Height	Size	Area taken out of larger hardwood stand.	
	Canopy Species Sugar Maple	ciation	•	DBH	I Age		eies Density		Size Sapling	Area taken out of larger hardwood stand.	
		ciation % Cover	Size Class	DBI	I Age	Canopy Spec	eies Density	Avg. Height		Area taken out of larger hardwood stand.	
	Sugar Maple	% Cover	Size Class Log/Pole	DBI	I Age	Canopy Spec Sugar Maple	Density Medium	Avg. Height 10 - 20 feet	Sapling	Area taken out of larger hardwood stand.	
	Sugar Maple	% Cover	Size Class Log/Pole	DBI	I Age	Canopy Spec Sugar Maple Red Oak	Density Medium Low	Avg. Height 10 - 20 feet Variable	Sapling Sapling	Area taken out of larger hardwood stand.	