

# **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment 12160 Entry Year 2020 Acreage: 1,475

County Iron

Management Area: Panola Plains

Revision Date: 2018-08-17

Stand Examiner: Scott Sebero

**Legal Description:** 

T42N-R32W Sections 8, 9, 16, 17, 19, 20 and 21.

#### **Identified Planning Goals:**

Develop age class distribution in aspen type. Develop the quality while maintaining diversity in hardwood types. Maintain health of conifer types and increase acreage where possible. Develop buffers on streams. Maintain and improve road system.

### Soil and topography:

Karlin soils with inclusions of Petticoat and Sagola. Karlin soils are very deep, excessively drained to moderately well drained soils on outwash plains, stream terraces, ground moraines, and end moraines. These soils formed in loamy and sandy glacial till and outwash deposits. Slopes range from 0 to 35 percent.

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

State lands mixed with blocks company lands and small private parcels. Lands used mainly for hunting and fishing.

### **Unique Natural Features:**

Finn Lake and Tim Bowers Creek.

#### Archeological, Historical, and Cultural Features:

None.

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

#### **Watershed and Fisheries Considerations:**

Tim Bowers Creek (Cold Transitional) and Stager Creek (Type 1 Trout Stream). Tim Bowers Creek should have 100' buffer plus 5' per 1% slope increase. Stager Creek should have a 300' buffer for those areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a 100' plus 5' per 1% increase in slope is recommended.

#### Wildlife Habitat Considerations:

This compartment contains part of a DWC (deer wintering complex) that provides shelter and forage for deer in south Iron County. Featured species in this Management Area (Panola Plains MA) include; eastern bluebird, bear, grouse, woodcock and Kirtland warbler. Management for deer winter cover, including transition zones, movement corridors and conifer component throughout the forage stands is critical in this compartment. Aspen age and stand size diversity are important management goals for deer, bear, grouse, wood ducks. The mature mixed pine component provides both winter cover for deer, and provides ideal habitat for black bears especially as refuge trees for cub rearing. Oak in the compartment provides critical mast important for most of the featured species identified for this MA Bear travel for more than 25 miles to access oak mast in this compartment. Openings in the compartment are particularly important for open landscape species such as bluebirds, sandhill cranes, deer and black bear. Jack pine stands in the compartment provide potential habitat for Kirtland's warbler. This compartment also includes a series of intensely managed aspen stands of various age classes to provide grouse habitat.

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

Sand/gravel pits are not located in the area, but there may be some sand & gravel potential within the compartment in places where bedrock is not at or near the surface. Abandoned iron mines are located less than two miles to the northwest. There has been previous mineral leasing within the compartment but no known exploration activity. There may still be metallic mineral potential within the compartment. There is no known potential for economic oil and gas production in the UP.

#### Vehicle Access:

Access is fairly good to most of compartment, but much of it is from a state owned rail trail.

## **Survey Needs:**

6 corners in section 21 and 2 corners in section 20.

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

Fire Protection:

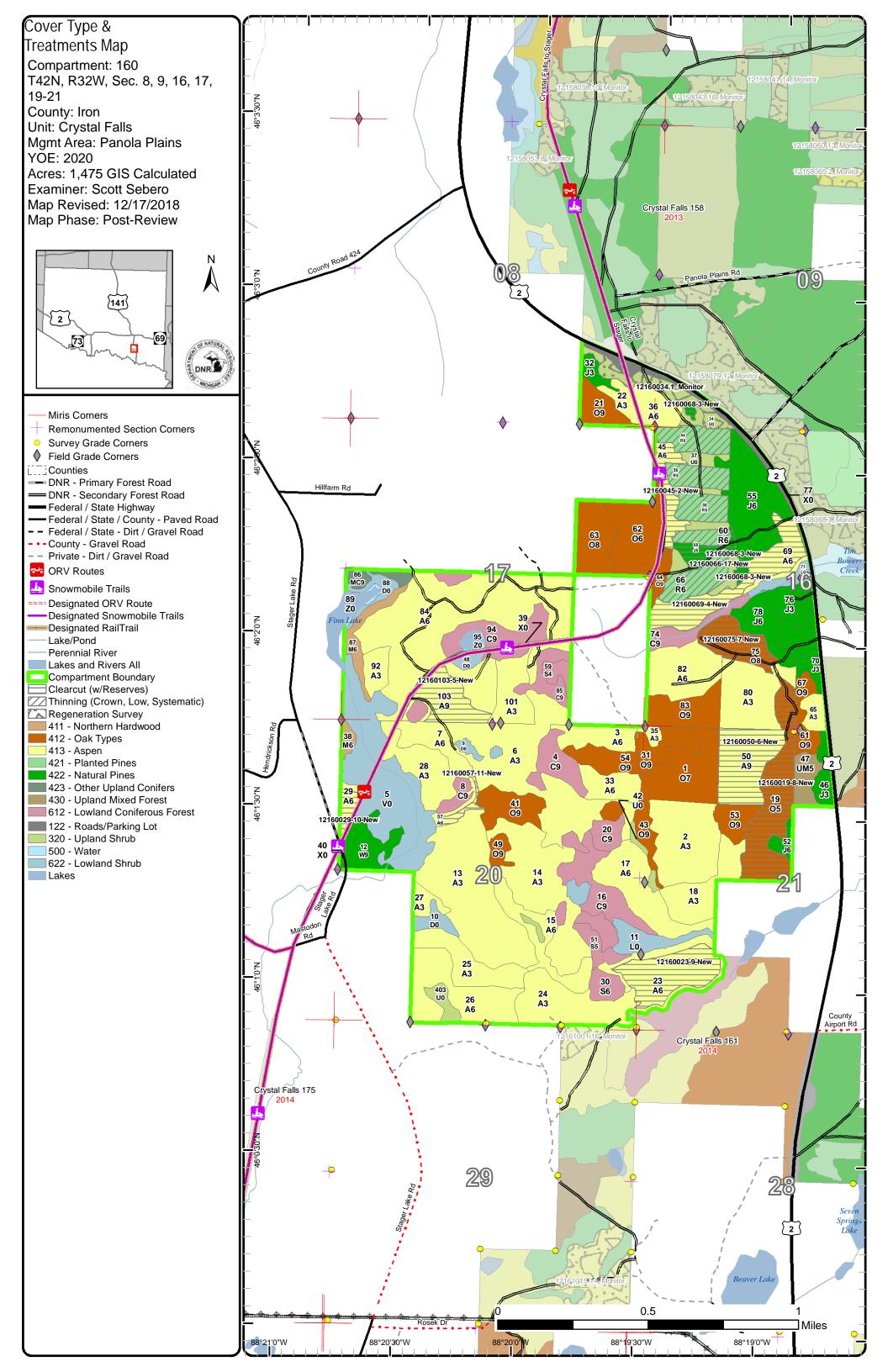
## **Additional Compartment Information:**

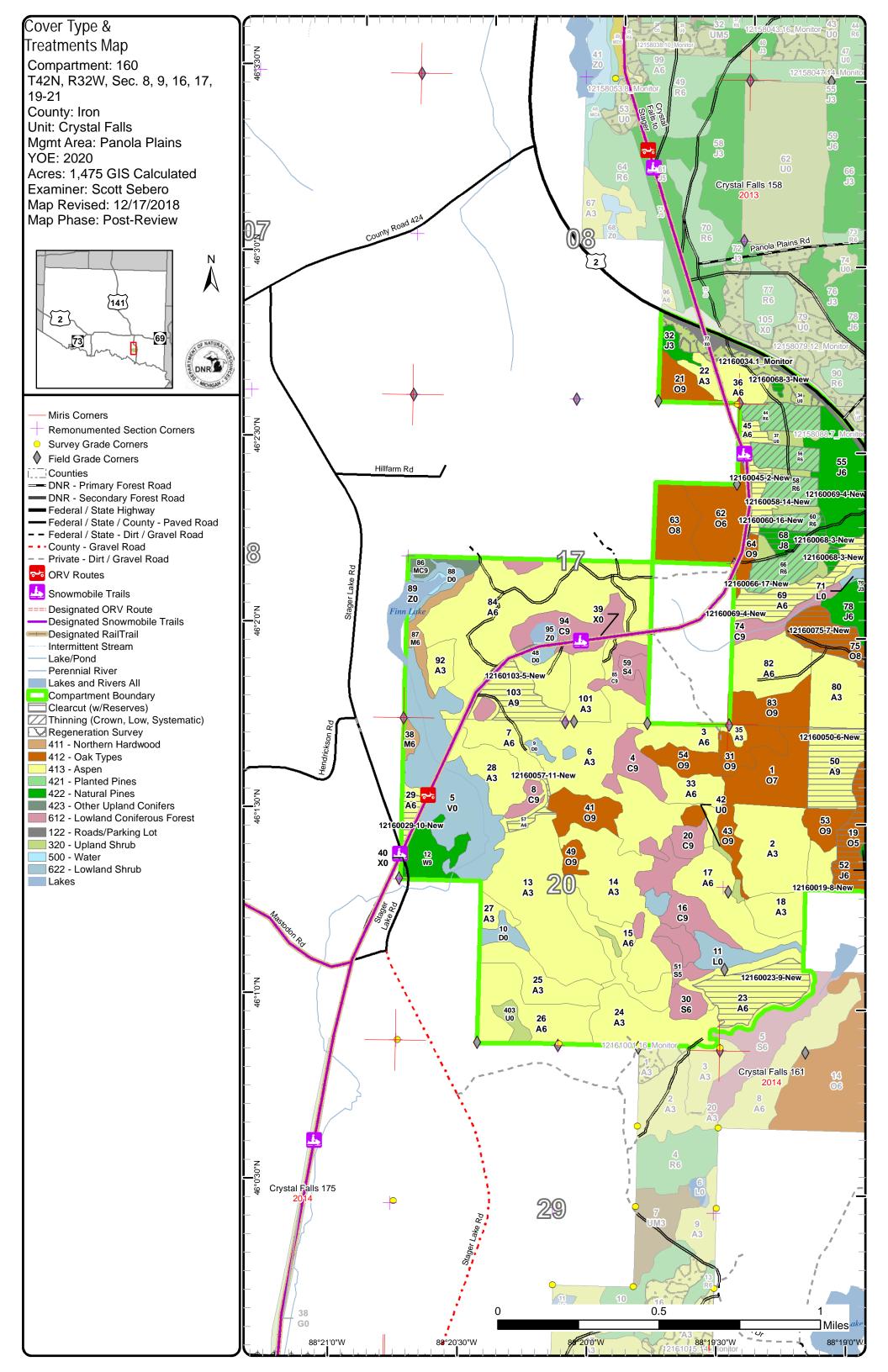
The following reports from the Inventory are attached:

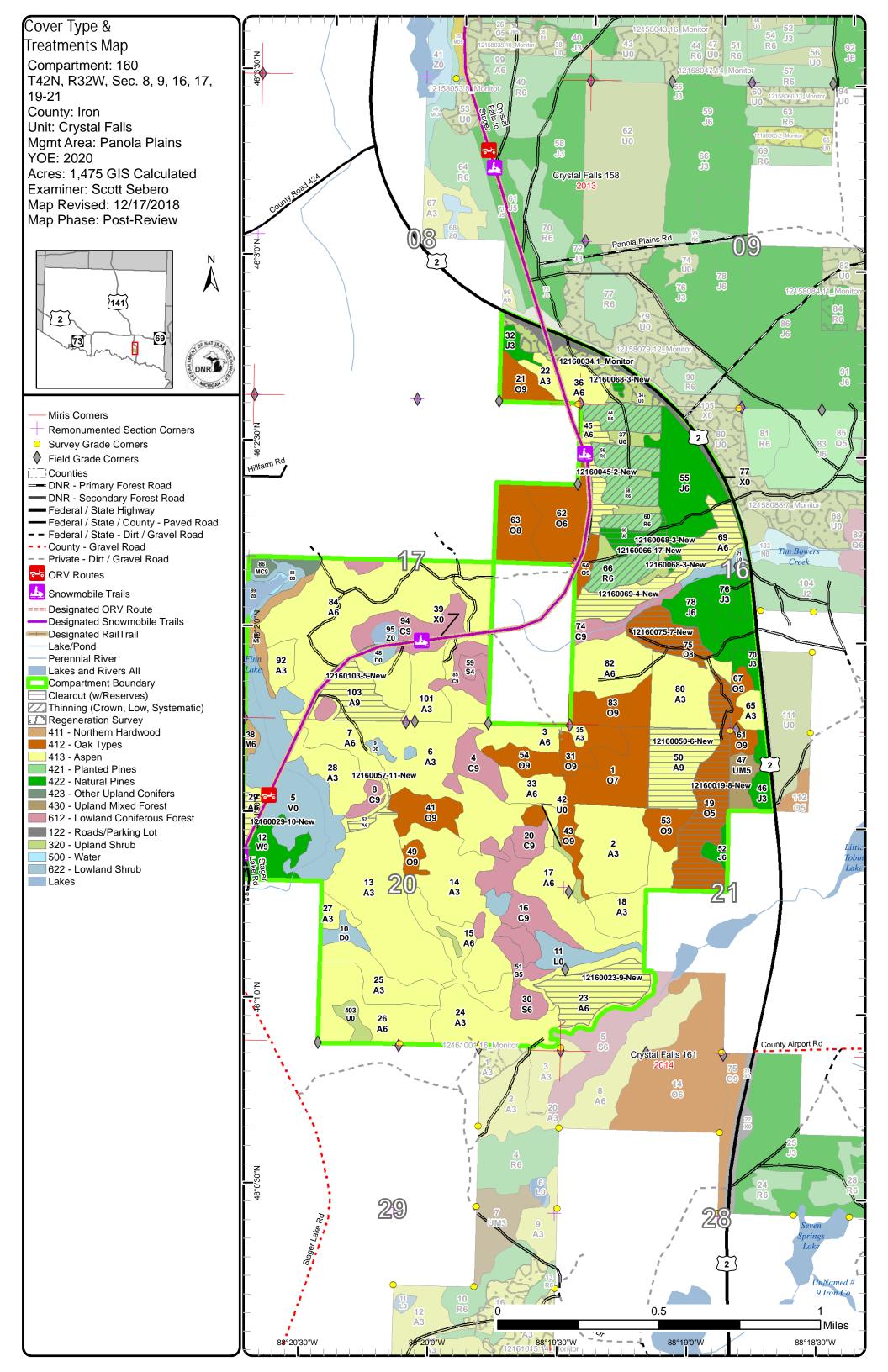
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

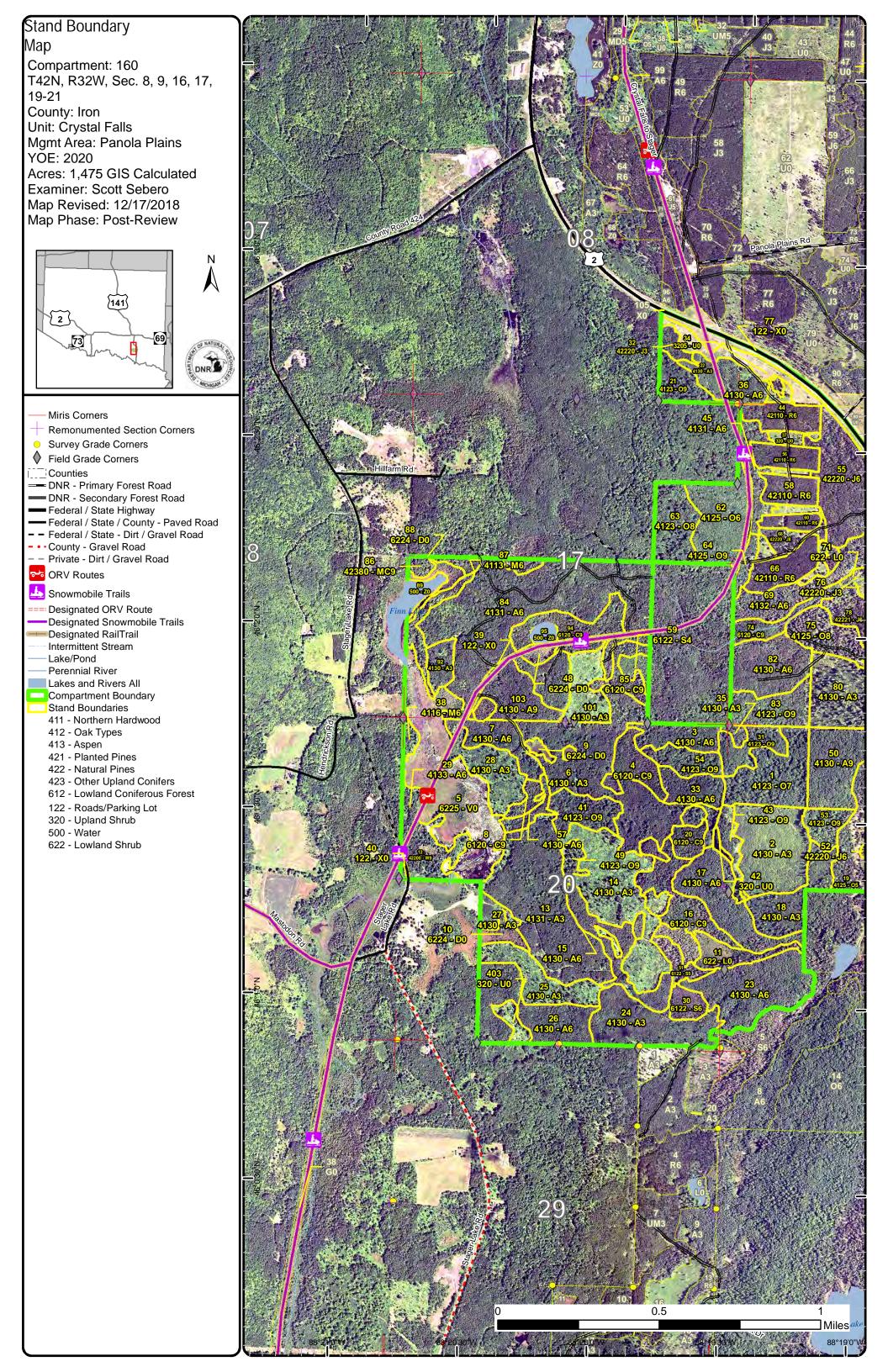
The following information is displayed, where pertinent, on the attached compartment maps:

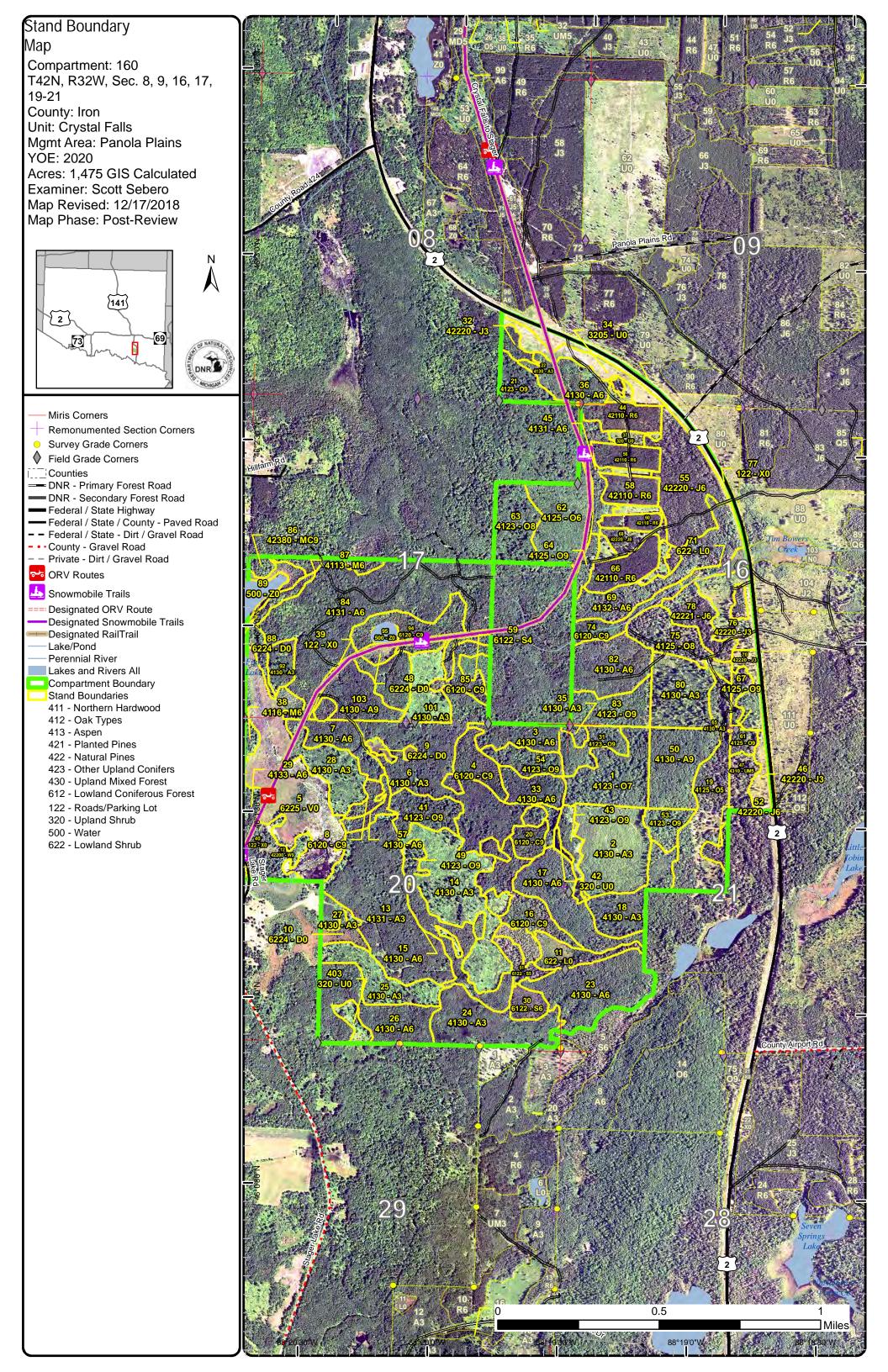
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

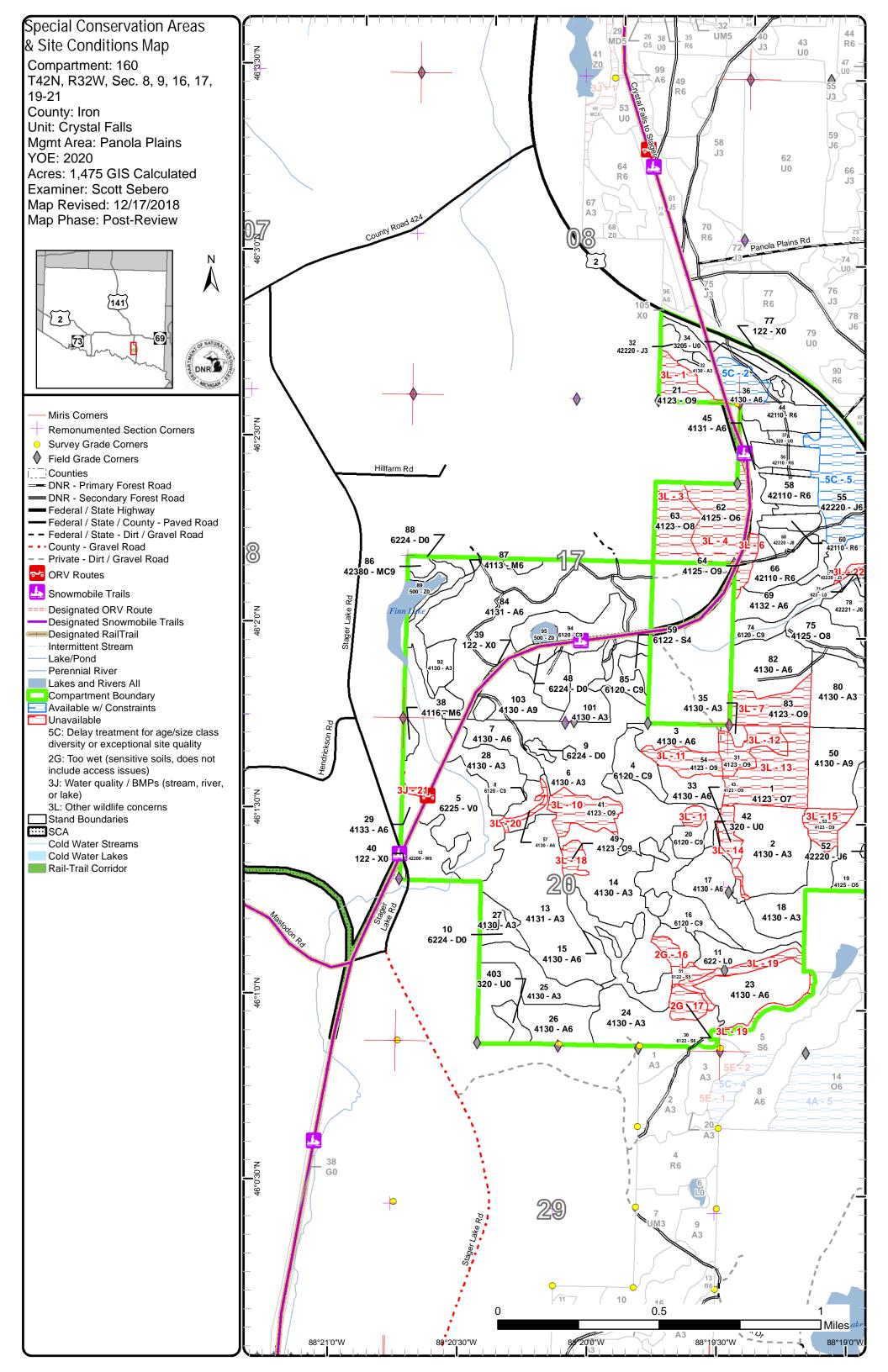


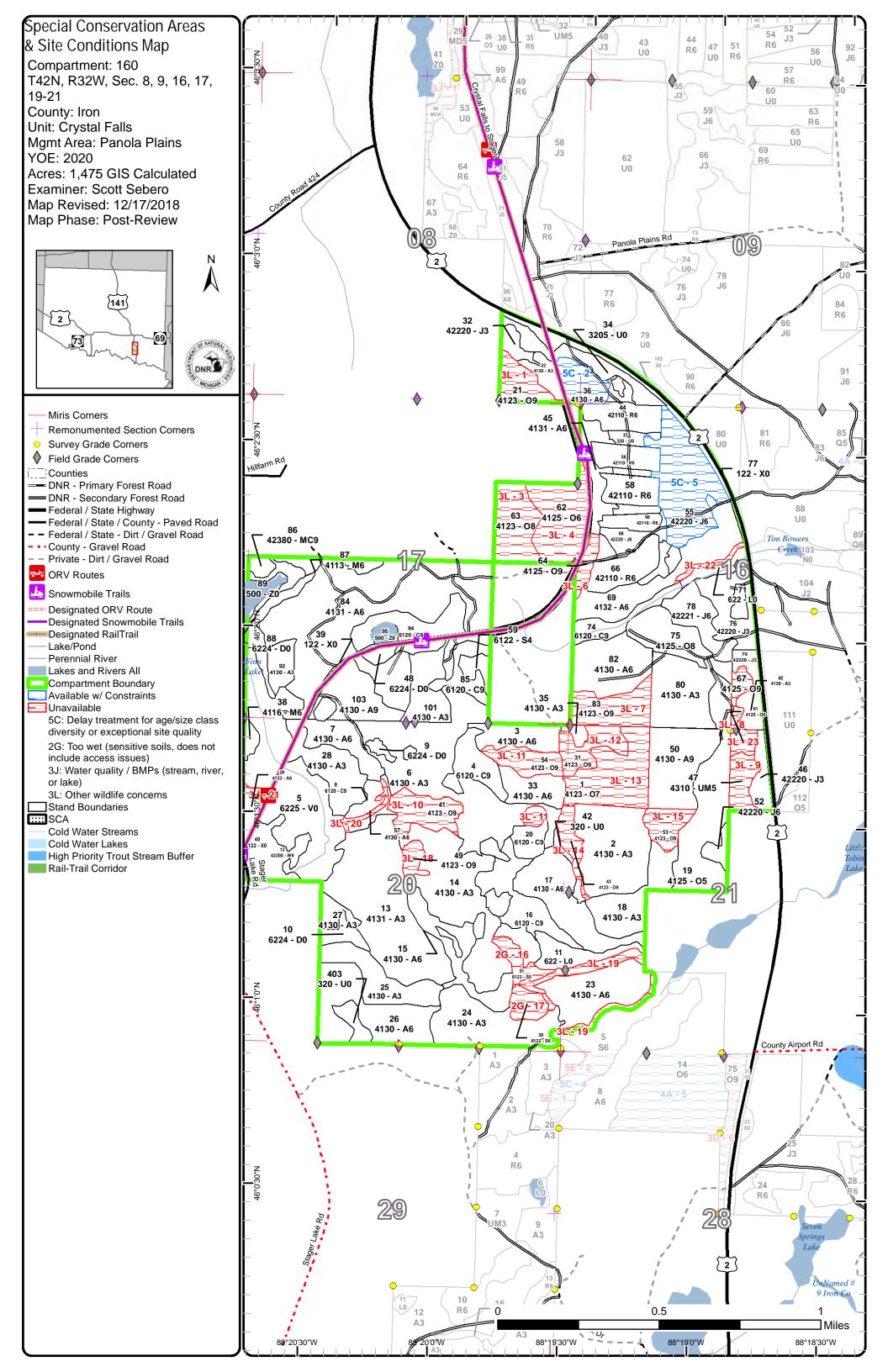












Compartment 160 Year of Entry 2020

Crystal Falls Mgt. Unit Scott Sebero : Examiner



## Age Class

	¥or	A STATE OF THE STA	3/2	\$ / %	, o o	\$ /\$	100 CO.	3/8	\$ / K	,	80.00	\$ /6/	20,00	\$ \ \	,	\$ P. 133	Lis Li	\$ July	No. No.
Aspen	0	175	65	148	58	223	76	0	0	28	0	0	0	0	0	0	0	0	773
Bog	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Cedar	0	0	0	0	0	0	0	0	19	74	0	0	0	0	0	0	0	0	93
Jack Pine	0	27	0	4	4	17	47	0	0	0	0	0	0	0	0	0	0	0	99
Lowland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Northern Hardwood	0	0	0	0	0	3	9	0	0	0	0	0	0	0	0	0	0	0	11
Oak	0	0	0	0	0	0	0	0	0	220	11	0	0	0	0	0	0	0	231
Red Pine	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	51
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	8
Upland Shrub	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Urban	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
<b>Total</b>	170	202	65	152	62	243	183	6	19	363	11	0	0	0	0	0	0	0	1473



# **Report 2 – Treatment Summary**

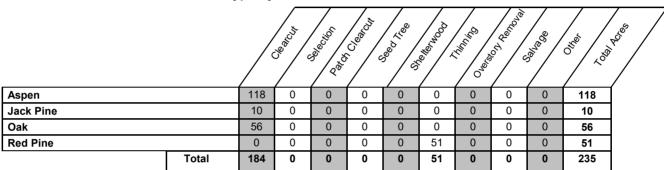
# Crystal Falls Mgt. Unit Year of Entry: 2020

#### **Acres of Harvest**

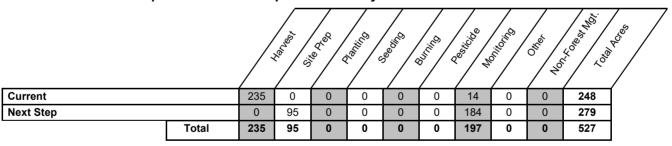
Compartment 160
Total Compartment Acres: 1,475

Commercial Harvest - 235 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



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



Boundary

Compartment: 160

Year of Entry: 2020

s t а

**Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** n Method Name CoverType Density Age Range Type Objective Structure **Status** d 19 12160019-8-39.5 4125 - Black, N. Pin Poletimber 51-80 Clearcut with 4122 - Oak, Pine Even-Aged Draft Field 80 Harvest

Retention

**Habitat Cut: No Site Condition:** 

Prescription Cut all aspen and mixed hardwood 2" DBH or greater, except oak. cut all spruce, balsam, tamarack and jack pine with one or more pulpwood stick, 4" DBH. Mark oak clumps to 60 BA. Favor Red oak and best crown pin oak. Red pine will be marked for operability. No white pine will Specs:

New

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

Medium

Treatments:

Acceptable Mix of oak and pine.

Regen:

Other Scarify after harvest. Wait for good acorn crop.

Comment:

**Proposed Start Date:** 10/1 /2019

12160023-9-26.4 4130 - Aspen Poletimber 46 81-110 Harvest Clearcut with 4134 - Aspen, Even-Aged **Draft Field** Well Retention Spruce/Fir Boundary New

**Habitat Cut: No** Site Condition:

Prescription Cut all aspen and mixed hardwood 2" DBH or greater, except oak. Cut all spruce, balsam, tamarack and lack pine with one or more pulpwood

Specs: stick, 4" DBH. No red or white pine, cedar, hemlock or oak will be cut.

Monitoring, Natural Regen (Re-Inventory) Next Step

**Treatments:** 

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other Protect oak and white pine regeneration.

Comment:

**Proposed Start Date:** 10/1 /2019

12160029-10-4.2 4133 - Aspen, Poletimber 50 81-110 Harvest Clearcut with 4136 - Aspen, Even-Aged Draft Field Mixed Pine Well Retention Mixed Conifer Boundary New

**Habitat Cut: No** Site Condition:

Prescription Cut all aspen and mixed hardwood 2" DBH or greater, except yellow birch and oak. Cut all spruce, balsam, tamarack and jack pine with one or Specs:

more pulpwood stick, 4" DBH. No red or white pine, cedar, hemlock, yellow birch or oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, pine, spruce and balsam.

Regen:

Other 100 foot buffer on open water.

Comment:

**Proposed Start Date:** 10/1 /2019

12160034.1 M 13.7 3205 - Mixed Nonstocked 0 Unspec Monitoring Artificial 4211 - Planted Even-Aged Draft Field Upland Shrub ified Red Pine Boundary onitor Regen(1yr)

**Habitat Cut: No Site Condition:** 

**Prescription** Specs:

Next Step Treatments:

Acceptable Red pine

Regen:

Other Percent to Treat = 100%

Comment:

**Proposed Start Date:** 1 /13/2017

Treatments:

Comment:

**Proposed Start Date:** 10/1 /2019

12160056-13-9.6 42110 - Planted Poletimber 57 141-Harvest Crown Thinning 42110 - Planted Even-Aged Draft Field Red Pine Well 170 Red Pine Boundary New

**Habitat Cut: No Site Condition:** 

Prescription Mark to 120 BA.

Specs:

Next Step Treatments:

Acceptable Regen:

Other Comment:

**Proposed Start Date:** 10/1 /2019

Crystal Falls Mgt. Unit Report 3 -- Treatments Compartment: 160 s Year of Entry: 2020 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type Approval** Age n Method Objective Name CoverType Density Age Range Type Structure **Status** d 12160057-11-57 2.7 4130 - Aspen Poletimber 51-80 Clearcut with 4134 - Aspen, Even-Aged Draft Field 40 Harvest New Well Retention Spruce/Fir Boundary **Habitat Cut: No Site Condition:** Prescription Cut all aspen and mixed hardwood 2" DBH or greater, except oak. Cut all spruce, balsam, tamarack and jack pine with one or more pulpwood stick, 4" DBH. No red or white pine, cedar, hemlock or oak will be cut. Specs: Monitoring, Natural Regen (Re-Inventory) Next Step Treatments: Acceptable Mix of aspen, spruce and balsam. Regen: Other Leave 1 chain buffer on stands 5 and 8. Comment: Proposed Start Date: 10/1 /2019 Crown Thinning 42110 - Planted 12160058-14-10.0 42110 - Planted Poletimber 141-Harvest Even-Aged Draft Field Red Pine Well 170 Red Pine Boundary New **Habitat Cut: No Site Condition:** Prescription Mark to 120 BA. Specs: Next Step **Treatments:** Acceptable Regen: Other Comment: **Proposed Start Date:** 10/1 /2019 12160060-16-Crown Thinning 42110 - Planted 42110 - Planted Poletimber 57 Draft Field 5.6 141-Harvest Even-Aged Red Pine Well 170 Red Pine New Boundary **Habitat Cut: No Site Condition:** Prescription Mark to 120 BA. Specs: Next Step Treatments: <u>Acceptable</u> Regen: Other Comment: **Proposed Start Date:** 10/1 /2019 12160066-17-42110 - Planted 13.7 Poletimber 57 141-Harvest Crown Thinning 42110 - Planted Even-Aged Draft Field Red Pine Well 170 Red Pine Boundary New **Habitat Cut: No Site Condition:** 

<u>Site Condition</u>

Prescription Mark to 120 BA.

Specs:

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

Compartment: 160

Year of Entry: 2020

t 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
68	12160068-3- New	9.6	42220 - Natural Jack Pine	Sawtimber Medium	59	51-80	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary

Site Condition: **Habitat Cut: No** 

Prescription Cut all aspen and mixed hardwood 2" DBH or greater, except oak. Cut all spruce, balsam and jack pine with one or more pulpwood sticks, 4" Specs: DBH. Red pine will be marked to allow space for operability. No white pine or oak will be cut.

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

**Treatments:** 

S

Acceptable Mix of jack pine, red pine, aspen and oak.

Regen: Other Comment:

Proposed Start Date: 10/1 /2019

12160069-4-29.4 4132 - Aspen, Jack Poletimber 81-110 Harvest Clearcut with 4133 - Aspen. Even-Aged Draft Field Pine Well Retention Mixed Pine Boundary New

**Habitat Cut:** No **Site Condition:** 

Prescription Cut all aspen and mixed hardwood 2" DBH or greater, except oak. Cut all spruce, balsam, tamarack and jack pine with one or more pulpwood

stick, 4" DBH. No red or white pine, cedar, hemlock or oak will be cut. Specs:

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

**Treatments:** 

Acceptable Mix of aspen, pine and oak.

Regen:

Other Scarify areas of jack pine. Protect advanced red and white pine regen on west side of stand.

Southern border of treatment will be along the red pine next to stand 74. One chain buffer along stand 71. Comment:

**Proposed Start Date:** 10/1 /2019

16.7 4125 - Black, N. Pin Sawtimber 12160075-7-84 51-80 Clearcut with 4122 - Oak, Pine Even-Aged Draft Field Harvest New Oak Medium Retention Boundary

**Habitat Cut: No Site Condition:** 

Prescription Cut all aspen and mixed hardwood 2" DBH or greater, except oak. cut all spruce, balsam, tamarack and jack pine with one or more pulpwood

stick, 4" DBH. Mark oak clumps to 60 BA. Favor Red oak and best crown pin oak. Red pine will be marked for operability. No white pine will be Specs:

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

Treatments:

Acceptable Mix of oak, pine and aspen.

Regen:

**Other** Scarify after harvest. Wait for good acorn crop.

Treatment boundary will be along red pine next to stand 74. Comment:

**Proposed Start Date:** 10/1 /2019

103 12160103-5-16.5 4130 - Aspen Sawtimber 57 81-110 Harvest Clearcut with 4134 - Aspen, Even-Aged Draft Field Well Retention Spruce/Fir Boundary New

**Site Condition: Habitat Cut: No** 

Prescription Cut all aspen and mixed hardwood 2" DBH or greater, except oak. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood

stick, 6" DBH. No red or white pine, cedar, hemlock or oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

Specs:

One chain buffer on stand 8. Mark out any wet areas.

**Other** Comment:

**Proposed Start Date:** 10/1 /2019

**Total Treatment** Acreage Proposed:

248.4

Crystal Falls Mgt. Unit

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Total	Acres	Acres Avail	Acres		D!	-4 0:4		al:4: a .a
TOTAL	Acres	Acres Avail	Acres		Domina	nt Sit	e Con	aition
Acres	Available	With Condition	Not Available		5C	2G	3J	3L
773	746	10	17	Aspen	10		1	15
65	65	0	0	Bog				
94	94	0	0	Cedar				
99	62	37	0	Jack Pine	37			
18	18	0	0	Lowland Shrub				
17	4	0	13	Lowland Spruce/Fir		13		
11	11	0	0	Northern Hardwood				
230	56	0	174	Oak				174
51	51	0	0	Red Pine				
15	15	0	0	Treed Bog				
6	6	0	0	Upland Conifers				
9	0	0	9	Upland Mixed Forest				9
37	37	0	0	Upland Shrub				
28	28	0	0	Urban				
7	7	0	0	Water				
16	16	0	0	White Pine				
1,475	1,216	47	212	Total Forested Acres	47	13	1	198
	82%	3%	14%	Relative Percent				

<sup>\*</sup>Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

1 Unavailable 3L: Other wildlife concerns age/size class diversity or exceptional site quality  Comments:
Comments:
Mast production.

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2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	3L: Other wildlife concerns	20	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Mast production.						
4	Unavailable	3L: Other wildlife concerns	26	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Mast production.						
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	3L: Other wildlife concerns	5	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Mast production.						

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7	Unavailable	Unavailable 3L: Other wildlife 17 concerns		5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Mast production.						
8	Unavailable	3L: Other wildlife concerns	5	1D: Interest Group / Neighbor	Unspecified	Unspecified	Unspecified
	Comments: Undivided interest.	Mast production.					
9	Unavailable	3L: Other wildlife concerns	9	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> undivided interest.	Mast production.					
10	Unavailable	3L: Other wildlife concerns	14	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Mast production.						
11	Unavailable	3L: Other wildlife concerns	13	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Mast production.						

Crystal Falls Mgt. Unit

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12	concerns age/size class div		5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified	
	Comments: Mast production.						
13	Unavailable	3L: Other wildlife concerns	29	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Mast production.						
14	Unavailable	3L: Other wildlife concerns	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Mast production.						
15	Unavailable	3L: Other wildlife concerns	9	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Mast production.						
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
18	Unavailable	3L: Other wildlife concerns	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Mast production.						
19	Unavailable	3L: Other wildlife concerns	11	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Movement corridor.						
20	Unavailable	3L: Other wildlife concerns	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Movement corridor.						
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
22	Unavailable	3L: Other wildlife concerns	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Movement corridor.						

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23	Unavailable	3L: Other wildlife concerns	4	1D: Interest Group / Neighbor	Unspecified	Unspecified	Unspecified
	<b>omments:</b> last production. Ur	ndivided interest.					

12/17/2018 2:19:29 PM - Page 6 of 6 SWARTZN3

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				

Crystal Falls Mgt. Unit Compartment: 160
Year of Entry 2020



# **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	HCVA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxy stocked trout populations and those of other coldwat conditions for coldwater fishes may occur in Michiga groundwater inflows, or are located in colder (northe Director's action and designated as trout resources in	ter fish species to persist from year to year. Suitable in lakes if they are relatively deep, have substantial ern) areas of the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved of stocked trout populations and those of other coldward year to year. Coldwater streams in Michigan typically contributions of groundwater to their stream flows. Since designated as trout resources by Fisheries Order 21	ter fish species (e.g., slimy sculpin) to persist from y provide these conditions due to substantial such streams are established by Director's action and

s t	Crystal Falls	Mgt. Unit		Report 7	- Forested Star	Ompartment: 160 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4123 - Red Oak	Sawtimber Poor	28.7	80	51-80	A3 with oak logs and poles.
2	4130 - Aspen	Sapling Well	36.5	6	Immature	Oak is mostly stump sprouts.
3	4130 - Aspen	Poletimber Well	12.8	35	51-80	Oak is mostly stump sprouts.
4	6120 - Lowland Cedar	Sawtimber Well	12.9	78	111-140	
6	4130 - Aspen	Sapling Well	79.7	25	Immature	A3 with scattered oak and red pine poles and small logs.
7	4130 - Aspen	Poletimber Well	14.4	40	51-80	
8	6120 - Lowland Cedar	Sawtimber Well	6.5	78	111-140	
12	42200 - Natural White Pine	Sawtimber Well	15.9	80	81-110	Aspen cut out of stand in 2001.
13	4131 - Aspen, Oak	Sapling Well	66.0	26	Immature	
14	4130 - Aspen	Sapling Well	46.3	6	Immature	Oak regen from stump sprouts.
15	4130 - Aspen	Poletimber Well	18.5	42	51-80	
16	6120 - Lowland Cedar	Sawtimber Well	19.8	83	81-110	
17	4130 - Aspen	Poletimber Well	28.5	42	51-80	
18	4130 - Aspen	Sapling Well	21.0	16	Immature	
19	4125 - Black, N. Pin Oak	Poletimber Medium	39.5	80	51-80	Pin oak dying and being cut by firewood cutters.
20	6120 - Lowland Cedar	Sawtimber Well	15.4	83	141-170	
21	4123 - Red Oak	Sawtimber Well	10.8	97	81-110	
22	4130 - Aspen	Sapling Well	5.9	15	Immature	
23	4130 - Aspen	Poletimber Well	37.2	46	81-110	Scattered oak logs and poles.

S t	Crystal Falls Mgt. Unit			Report 7	- Forested	Stands Compartment: 160 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4130 - Aspen	Sapling Well	30.8	16	Immature	
25	4130 - Aspen	Sapling Well	19.6	6	Immature	
26	4130 - Aspen	Poletimber Well	33.7	39	51-80	
27	4130 - Aspen	Sapling Well	4.8	6	Immature	
28	4130 - Aspen	Sapling Well	18.9	6	Immature	
29	4133 - Aspen, Mixed Pine	Poletimber Well	5.4	50	81-110	
30	6122 - Black Spruce	Poletimber Well	6.4	83	81-110	
31	4123 - Red Oak	Sawtimber Well	11.8	83	81-110	
32	42220 - Natural Jack Pine	Sapling Well	4.2	25	Immature	
33	4130 - Aspen	Poletimber Well	11.6	37	51-80	Aspen stand with stump sprouted oak.
35	4130 - Aspen	Sapling Well	2.3	25	Immature	A3 with scattered oak poles and small logs.
36	4130 - Aspen	Poletimber Well	10.3	54	51-80	
38	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	2.9	40	81-110	Aspen has all but fallen out of this stand and it has converted to red maple.
41	4123 - Red Oak	Sawtimber Well	14.2	83	81-110	
43	4123 - Red Oak	Sawtimber Well	6.7	83	111-140	
44	42110 - Planted Red Pine	Poletimber Well	12.3	57	141-170	RED PINE PLANTATION THINNED IN 2002.
45	4131 - Aspen, Oak	Poletimber Well	10.7	54	81-110	
46	42220 - Natural Jack Pine	Sapling Well	6.6	5	Immature	State owns 1/4 undivided interest.
47	4310 - Pine, Oak Mix	Poletimber Medium	8.5	83	51-80	State owns 1/4 undivided interest.

s t	Crystal Falls Mgt. Unit			Report 7	- Forested Sta	rinds Compartment: 160 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4123 - Red Oak	Sawtimber Well	4.2	83	81-110	
50	4130 - Aspen	Sawtimber Well	27.8	80	141-170	
51	6122 - Black Spruce	Poletimber Medium	6.3	83	1-50	
52	42220 - Natural Jack Pine	Poletimber Well	3.8	35	51-80	
53	4123 - Red Oak	Sawtimber Well	8.6	83	51-80	
54	4123 - Red Oak	Sawtimber Well	12.9	83	81-110	
55	42220 - Natural Jack Pine	Poletimber Well	36.9	59	81-110	
56	42110 - Planted Red Pine	Poletimber Well	9.6	57	141-170	RED PINE PLANTATION THINNED IN 2002.
57	4130 - Aspen	Poletimber Well	5.0	40	51-80	
58	42110 - Planted Red Pine	Poletimber Well	10.0	57	141-170	RED PINE PLANTATION THINNED IN 2002.
59	6122 - Black Spruce	Poletimber Poor	4.4	89	1-50	
60	42110 - Planted Red Pine	Poletimber Well	5.6	57	141-170	RED PINE PLANTATION THINNED IN 2002.
61	4125 - Black, N. Pin Oak	Sawtimber Well	4.1	83	81-110	State owns 1/4 undivided interest.
62	4125 - Black, N. Pin Oak	Poletimber Well	26.1	89	111-140	Mostly pin oak with some scattered large pine.
63	4123 - Red Oak	Sawtimber Medium	19.6	89	51-80 S	tand was harvested in 2001. All species, other than oak were cut. Pockets of nice aspen regen.
64	4125 - Black, N. Pin Oak	Sawtimber Well	4.5	83	81-110	
65	4130 - Aspen	Sapling Well	5.2	5	Immature	Undivided 7/8 interest.
66	42110 - Planted Red Pine	Poletimber Well	13.7	57	141-170	RED PINE PLANTATION THINNED IN 2002.
67	4125 - Black, N. Pin Oak	Sawtimber Well	4.9	83	81-110	Undivided 7/8 interest.

s t	Crystal Falls		Report 7	- Forested \$	Stands Compartment: 160 Year of Entry: 2020	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	42220 - Natural Jack Pine	Sawtimber Medium	9.6	59	51-80	
69	4132 - Aspen, Jack Pine	Poletimber Well	31.7	54	81-110	
70	42220 - Natural Jack Pine	Sapling Well	4.0	5	Immature	Undivided 7/8 interest.
74	6120 - Lowland Cedar	Sawtimber Well	9.5	84	51-80	Small creek flows through stand.
<b>75</b>	4125 - Black, N. Pin Oak	Sawtimber Medium	16.7	84	51-80	
76	42220 - Natural Jack Pine	Sapling Well	16.5	5	Immature	
78	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	17.0	40	81-110	
80	4130 - Aspen	Sapling Well	28.1	5	Immature	
82	4130 - Aspen	Poletimber Well	24.8	43	51-80	
83	4123 - Red Oak	Sawtimber Well	17.1	84	81-110	All species, other than oak, were removed in 1975 cut.
84	4131 - Aspen, Oak	Poletimber Well	94.8	40	51-80	Scattered log sized oak and pockets of oak.
85	6120 - Lowland Cedar	Sawtimber Well	11.6	89	81-110	
86	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	5.6	60	81-110	
87	4113 - R.Maple, Conifer	Poletimber Well	8.5	50	51-80	Older birch falling out of stand. Younger red maple and balsam filling in. Buffer for Finn Lake.
92	4130 - Aspen	Sapling Well	7.2	17	Immature	
94	6120 - Lowland Cedar	Sawtimber Well	18.1	89	111-140	
101	4130 - Aspen	Sapling Well	15.3	6	Immature	
103	4130 - Aspen	Sawtimber Well	17.9	57	81-110	



Stand	Cover Type	Acres	Managed Site	General Comments:
5	6225 - Bog	64.6	No	Active beaver pond within stand. Beaver cutting aspen in surrounding stands.
9	6224 - Treed Bog	2.7	No	
10	6224 - Treed Bog	5.1	No	OPIC - FMD: OI Stand Year Origin was
11	622 - Lowland Shrub	13.5	No	OPIC - FMD: old beaver flooding.
34	3205 - Mixed Upland Shrub	13.7		Harvested 2014- Objective: Planted red pine. Oak and white pine were retained.
37	320 - Upland Shrub	14.6	No	
39	122 - Road/Parking Lot	11.4	No	Iron County Recreation Trail.
40	122 - Road/Parking Lot	0.4	No	Stager Lake Road.
42	320 - Upland Shrub	2.3	No	
48	6224 - Treed Bog	2.5	No	
71	622 - Lowland Shrub	4.9	No	
77	122 - Road/Parking Lot	15.8	No	HWY. U.S. 2
88	6224 - Treed Bog	5.1	No	OPIC - FMD: Small creek flows through stand.
89	500 - Water	4.8	No	FINN LAKE
95	500 - Water	2.6	No	POND
403	320 - Upland Shrub	5.9	No	