

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12169 Entry Year 2020 Acreage: 1,520

County Iron

Management Area: Peavy Moraine

Revision Date: 2018-08-17

Stand Examiner: Scott Sebero

Legal Description:

T42N-R31W Sections 23, 24, 26, 28, 33 & 34.

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:

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:

Peavy Pond and Gages Creek.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Gages Creek is a Type 1 Trout Stream and is located within this compartment. A 300' buffer for those areas susceptible to Aspen regeneration is recommended. For areas not susceptible to Aspen regeneration, a 100' plus 5' per 1% increase in slope is recommended. There is also an unnamed Type 1 trout stream that flows into Gages Creek, although from areal photos this looks dried up. There is also some drainage area in the northwestern portion that flows into Peavey Pond.

Wildlife Habitat Considerations:

This compartment contains part of the historic Lake Mary Deeryard that provides shelter and forage for deer in south Iron County. Featured species in this Management Area (Peavey End Moraine MA) include; eastern bluebird, black bear, woodcock, deer and wood duck. Moose, eagles, osprey,turkeys, sandhill cranes and wolves all have been documented in this compartment. Management for deer functional winter cover, including transition zones, movement corridors and conifer component, particularly hemlock, throughout the forage stands is critical in this compartment. Aspen age and stand size diversity are important management goals for deer, bear, grouse, woodcock and goshawks. 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. It also provides critical nesting and perching habitat for bald eagle and osprey. Oak in the compartment provides mast important for most of the featured species identified for this MA and is particularly important for black bear and deer. 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

Active sand/gravel pits are located three miles to the north and east, and there appears to be some sand & gravel potential within the compartment. Abandoned iron mines are not located nearby, but there was some iron exploration and prospects three miles southeast of the compartment. There has been previous mineral leasing activity within the compartment, and there may still be some metallic mineral potential. There is no known potential for economic oil and gas production in the UP.

Vehicle Access:

Good access to most of compartment. Gate in section 33 needs to be removed.

Survey Needs:

6 corners in section 24, 2 corners in section 23, 4 corners in section 26 and 1 corner in section 28.

Recreational Facilities and Opportunities:

Fire Protection:

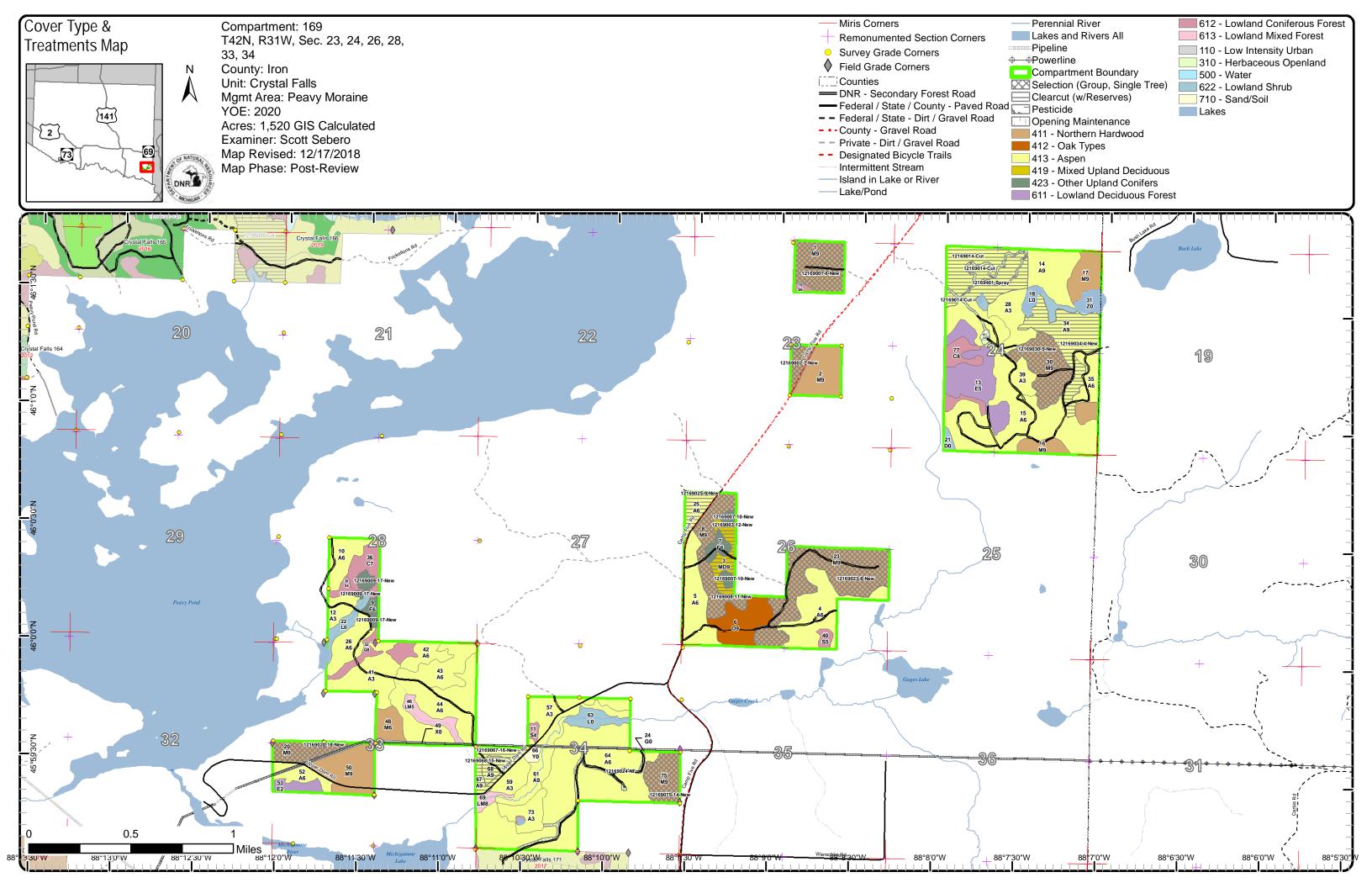
Additional Compartment Information:

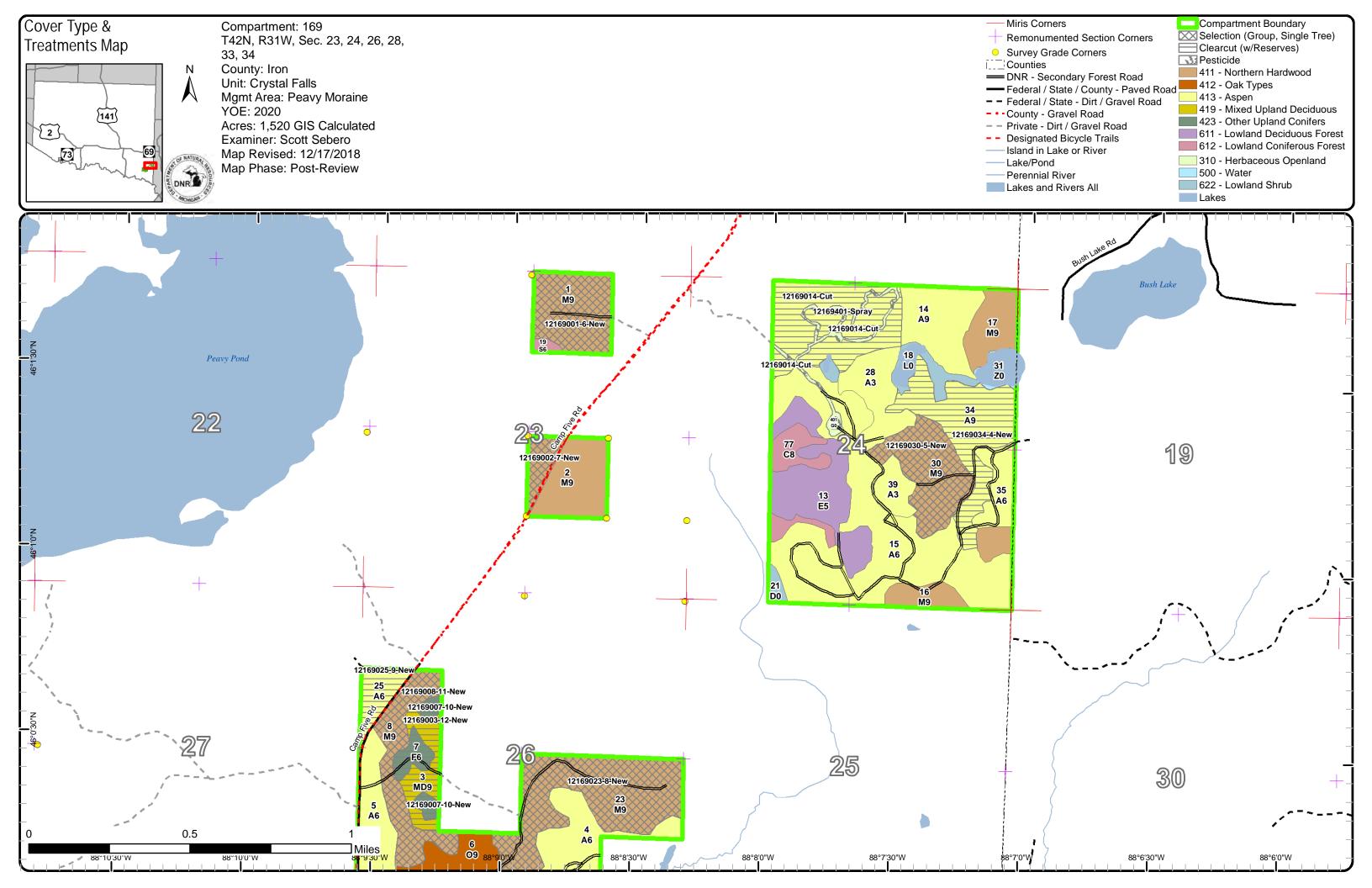
The following reports from the Inventory are attached:

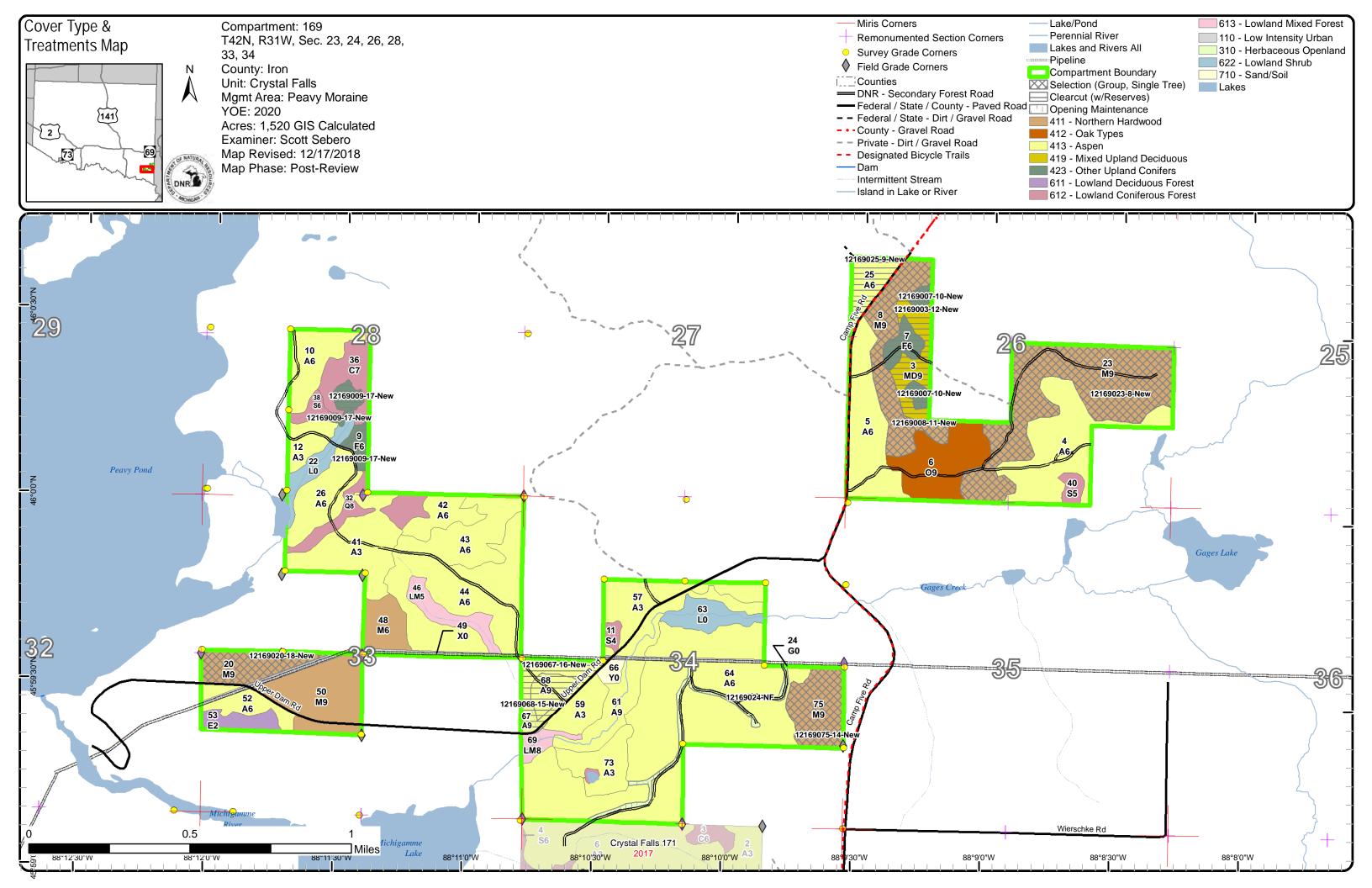
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

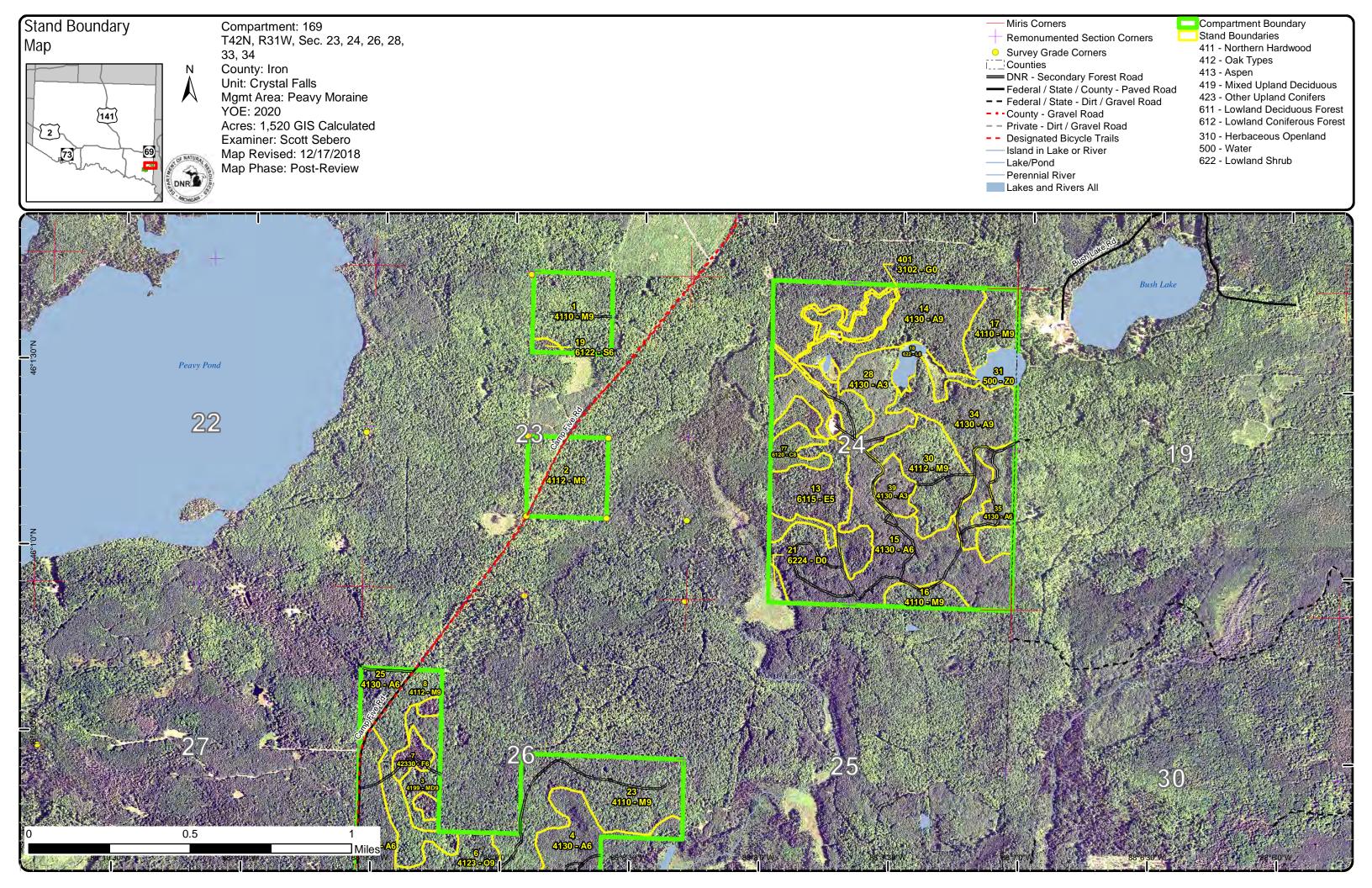
The following information is displayed, where pertinent, on the attached compartment maps:

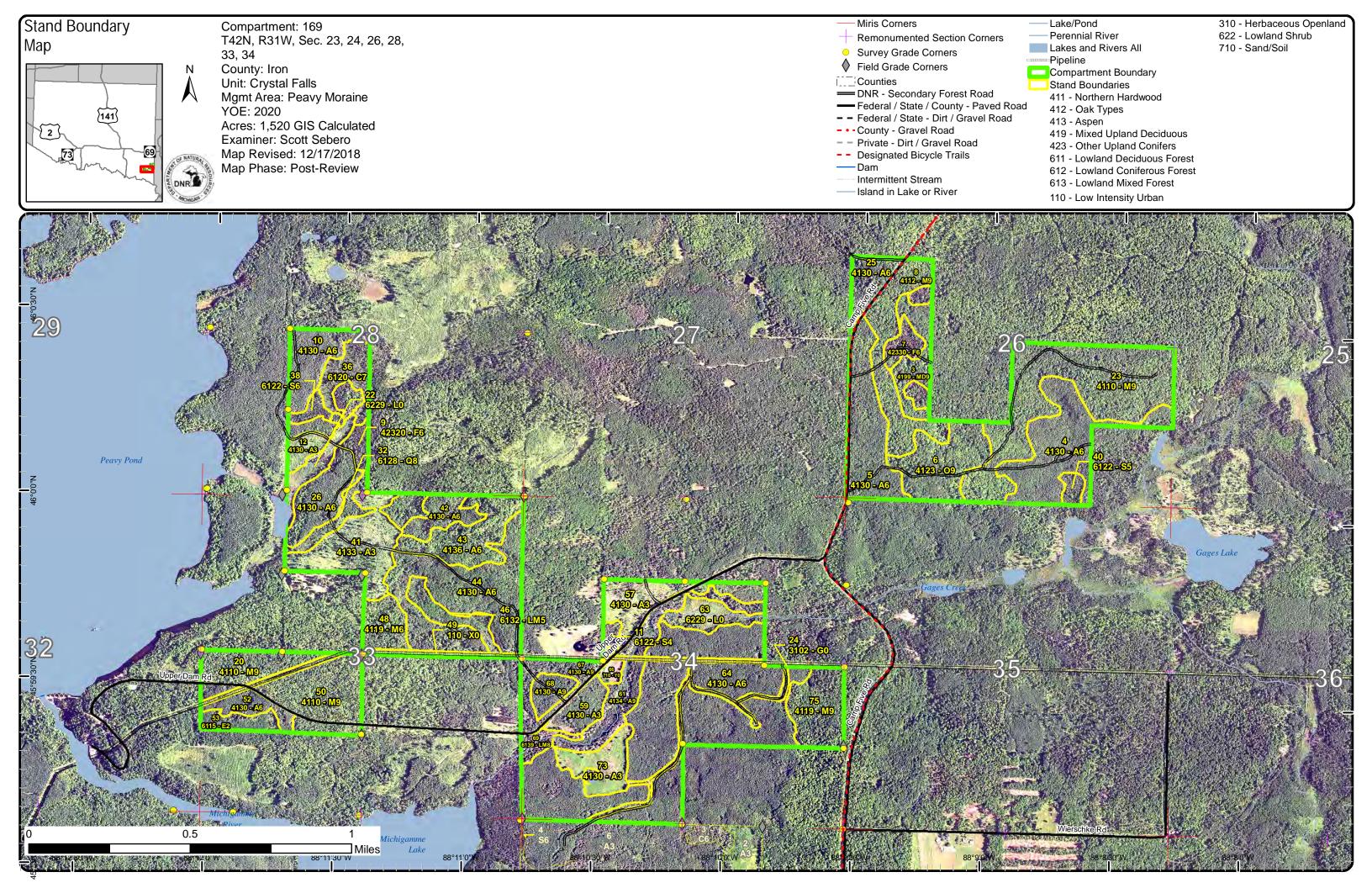
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

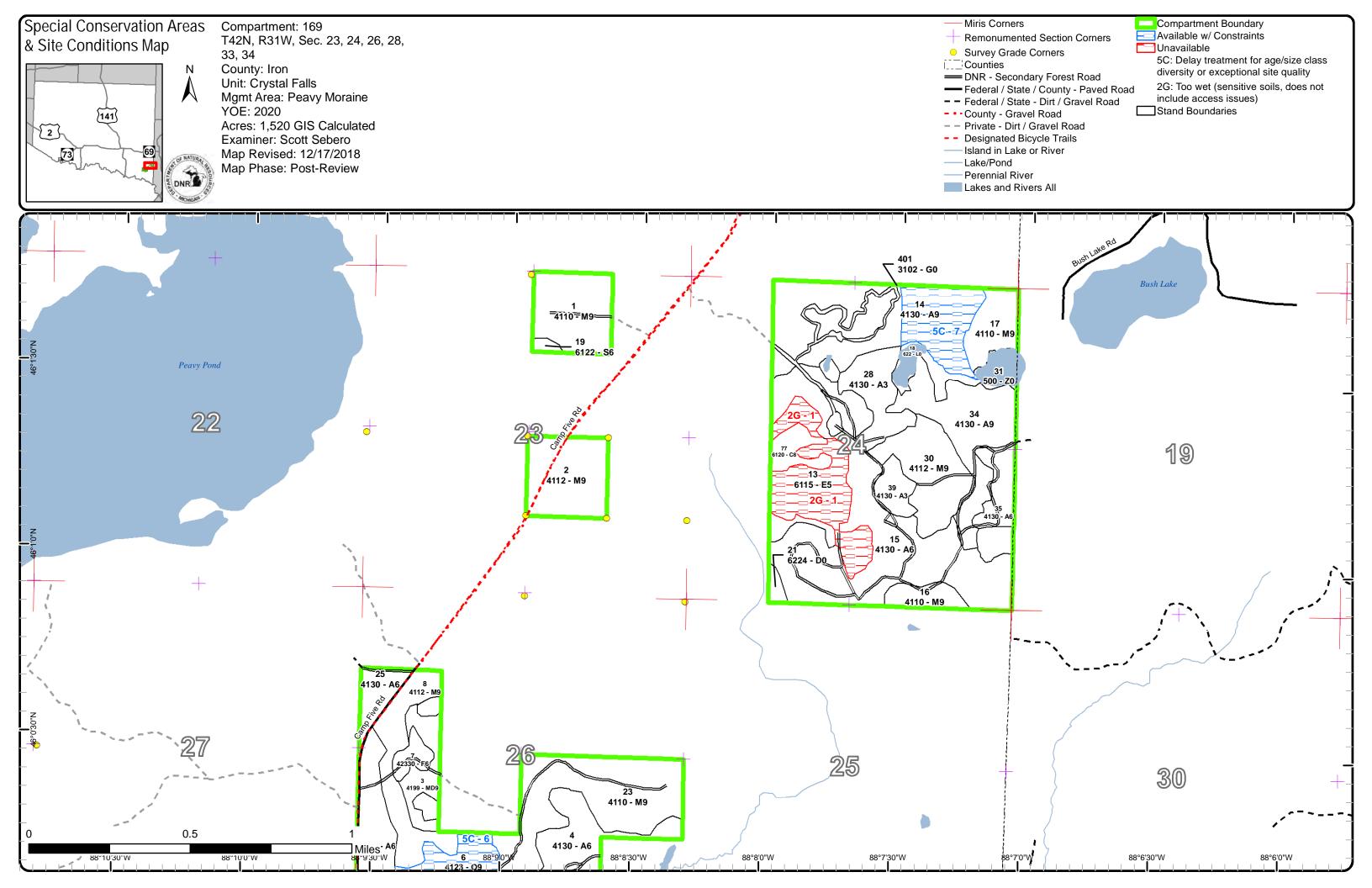


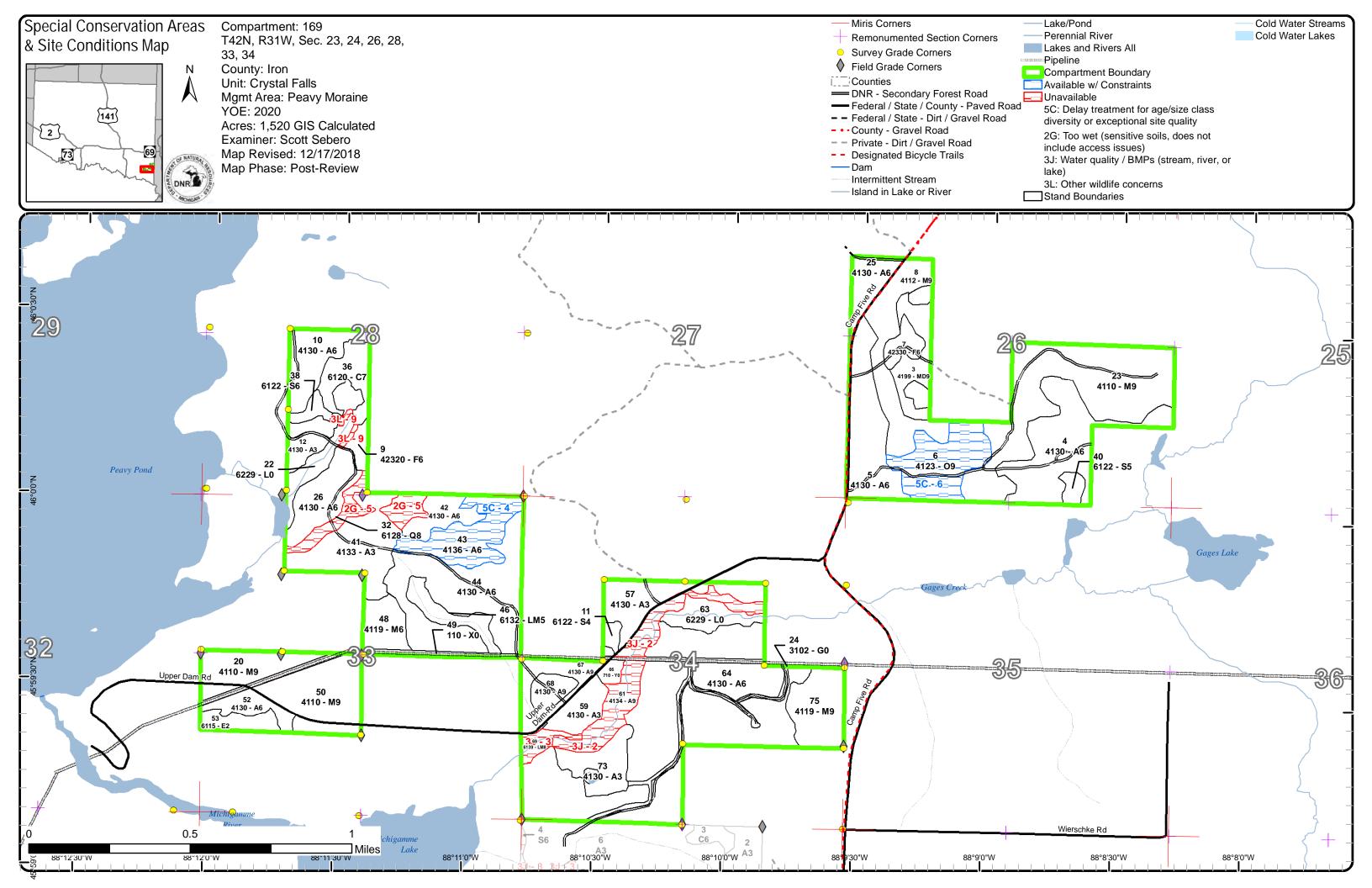












Crystal Falls Mgt. Unit

Compartment 169 Year of Entry 2020

Scott Sebero : Examiner



Age Class

		LA CONTRACTOR	/ s ³ /s			/ § /		, § /		/ ^? ~ §				, ,			Z LASS / E	/ §* / _3	O NO
	1			' / °	/ %	/ 🖟	/ %	/ %	^	′/ %	/ %	/ 1/2	, / ½	/ 🕉	/ 3		/ `	\	/~/
Aspen	0	78	53	0	473	50	174	16	0	31	0	0	0	0	0	0	0	0	875
Cedar	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	31
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	15
Lowland Deciduous	0	0	0	0	9	0	0	0	0	0	46	0	0	0	0	0	0	0	54
Lowland Mixed Forest	0	0	0	0	0	11	0	0	0	0	6	0	0	0	0	0	0	0	17
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	2	10
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Northern Hardwood	0	0	0	0	0	0	0	0	0	13	349	0	0	0	0	0	0	0	361
Oak	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Spruce/Fir	0	0	0	0	0	0	0	12	0	0	10	0	0	0	0	0	0	0	22
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	82	78	53	0	482	61	174	28	0	44	513	0	0	0	0	0	0	2	1515



Report 2 – Treatment Summary

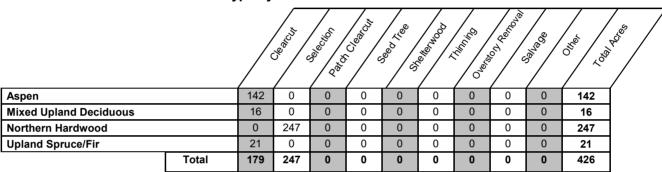
Crystal Falls Mgt. Unit Year of Entry: 2020

Acres of Harvest

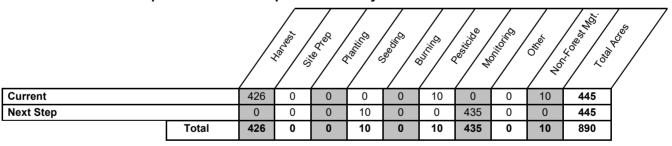
Compartment 169
Total Compartment Acres: 1,520

Commercial Harvest - 56 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 370

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



DEPARTME	DNR DNR
`	MICHIGAN

s	
t	
а	
n	

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	9
1	12169001-6- New	37.0 4	110 - Sugar Maple Association	Sawtimber Well	90	141- 170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary	

Habitat Cut: Yes Site Condition:

Prescription Mark to 80 BA, opening up around large oak and clean out canopy gaps where large crown trees are removed. Favor yellow birch.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of maple, oak and pine.

Regen:

Other Leave red and white pine, oak and hemlock.

Comment: Retain spruce and balsam two stick and smaller, 6" DBH. Protect vernal ponds.

Proposed Start Date: 10/1 /2019

12169002-7-4112 - Maple, Sawtimber 90 81-110 Single Tree 411 - Northern Draft Field 104 Harvest Uneven-Beech, Cherry Well Selection Hardwood Boundary New Aged

Association

<u>Habitat Cut:</u> Yes <u>Site Condition:</u> <u>Prescription</u> Mark to 80 BA. Favor yellow birch.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of maple, birch and pine.

Regen:

Other Leave red and white pine, oak and hemlock.

Comment: Retain spruce and balsam two stick and smaller, 6" DBH. Protect vernal ponds.

Proposed Start Date: 10/1 /2019

90 12169003-12-16.3 4199 - Other Mixed Sawtimber 81-110 Harvest Clearcut with 4121 - Oak. Two-Aged Draft Field **Upland Deciduous** Well Retention Boundary New Aspen

Habitat Cut: Yes Site Condition:

Prescription Cut all aspen and maple 2" DBH or greater. Cut all spruce, balsam and birch with one or more pulpwood stick, 4" DBH. No red or white pine,

Specs: cedar, hemlock or oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, hardwood and softwood.

Regen: Other

Leave a few large diameter yellow birch.

Comment:

Proposed Start Date: 10/1 /2019

7 12169007-10- 12.3 42330 - Upland Fir Poletimber 60 81-110 Harvest Clearcut with 4191 - Mixed Even-Aged Draft Field New Well Retention Upland Boundary

Deciduous with

Conifer

Habitat Cut: Yes Site Condition:

Prescription Cut all aspen and maple 2" DBH or larger. Cut all spruce, balsam and birch with one or more pulpwood stick, 4" DBH. No red or white pine,

Specs: cedar, hemlock or oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of fir, aspen and hardwood.

Regen:

Other Leave any legacy trees.

Comment:

Proposed Start Date: 10/1 /2019

DEPARTMEN	DNR	ESOURCES!
101	MICHIGAN .	9

a n d	Treatment Name	Acres	Stand CoverType	Size S Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
8	12169008-11- New	33.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: Yes Site Condition:

Prescription Mark to 80 BA. Open up around large oak and clean out canopy gaps where large crown trees are removed. Cut spruce and balsam 6" DBH or

greater. No red and white pine, cedar, hemlock or oak will be cut. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

S

Acceptable Mix of maple, oak and pine.

Regen: Other Comment:

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

Draft Field 42320 - Upland Poletimber 93 81-110 Clearcut with 4191 - Mixed 9 12169009-17-88 Harvest Even-Aged Spruce Well Retention Upland Boundary New Deciduous with

Conifer

Habitat Cut: Yes Site Condition:

Prescription Cut all aspen and maple 2" DBH or larger. Cut all spruce, balsam and birch 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)

Treatments:

Acceptable Mix of spruce, aspen and hardwood.

Regen:

Other Leave 1 chain buffer along both sides of wet drain, stand 22. Buffer 1 chain around broad wing nest in west side of south block.

Comment:

Proposed Start Date: 10/1 /2019

81-110 12169014-Cut 55.7 4130 - Aspen Sawtimber 52 Harvest Clearcut with 4134 - Aspen, Even-Aged **Draft Field** Well Retention Spruce/Fir Boundary

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2" DBH or larger. Cut all spruce, balsam and birch with one or more pulpwood stick, 4" DBH. No red or white pine or

Specs: oak will be cut.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Mix of aspen and fir.

Regen:

Other Red line out any ash pockets. Winter cut to avoid spread of wild parsnip. May adjust treatment area to retain areas heavier to hardwood and cut

areas with less hardwood. Acres of cut will not change significantly. Comment:

Proposed Start Date: 10/1 /2019

12169020-18-18.5 4110 - Sugar Maple Sawtimber 141-Draft Field Harvest Single Tree 411 - Northern Uneven-170 Association Well Selection Hardwood New Aged Boundary

Habitat Cut: Yes Site Condition:

Prescription Mark to 80 BA. Open up around large oak and clean out canopy gaps where large crown trees are removed. Cut spruce and balsam 6" DBH or Specs:

greater. Oak will not be cut except for health reasons. No red or white pine, cedar or hemlock will be cut.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Mix of maple, oak and ash.

Regen: **Other**

Protect black ash pockets and oak saps.

Comment:

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

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
23	12169023-8- New	84.3 4	110 - Sugar Maple Association	Sawtimber Well	90	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: Yes **Site Condition:**

Prescription Mark to 80 BA. Open up around large oak and clean out canopy gaps where large crown trees are removed. Cut spruce and balsam 6" DBH or Specs:

larger. Favor Yellow birch. No oak, red or white pine, cedar or hemlock will be cut.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Mix of maple and oak.

Regen:

S

Other Leave some large diameter cavity trees for wildlife.

Comment:

Proposed Start Date: 10/1 /2019

12169024-NF 96 3102 - Grass 0 Unspec NonForestMqt Herbaceous/Crop 3102 - Grass Draft Field Nonstocked ified /Grass Planting Boundary

Habitat Cut: No Site Condition:

Prescription Hunter walking trail opening maintenance

Specs:

Next Step **Treatments:**

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2018

4130 - Aspen Poletimber Draft Field 12169025-9-12.6 48 81-110 Clearcut with 4133 - Aspen, Even-Aged Harvest Retention Mixed Pine New Well Boundary

Habitat Cut: Yes Site Condition:

Prescription Cut all aspen and maple 2" DBH or larger. Cut all spruce, balsam and birch 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)

Treatments:

Acceptable Mix of aspen and pine.

Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

12169030-5-4112 - Maple, 30 38.6 90 411 - Northern Draft Field Sawtimber 141-Harvest Single Tree Uneven-Beech, Cherry Well 170 Selection Hardwood Boundary New Aged

Association Site Condition:

Prescription Mark to 80 BA. Cut all aspen, spruce and balsam 6" DBH or greater. Leave all red and white pine, cedar, hemlock and oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Habitat Cut: Yes

Acceptable Mix of maple, aspen and pine.

Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

s	
t	
а	

a n d	Treatment Name	Acres	Stand CoverType		Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
34	12169034-4- New	49.5	4130 - Aspen	Sawtimber Well	52	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary

Habitat Cut: Yes Site Condition:

Prescription Cut all aspen and maple 2" DBH or larger. Cut all spruce, balsam and birch with one or more pulpwood stick, 4" DBH. No red or white pine,

Specs: cedar, hemlock or oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other Mark out ash drains and intermittent creek.

Comment:

Proposed Start Date: 10/1 /2019

12169067-16-15.7 4130 - Aspen 66 81-110 Clearcut with 4134 - Aspen, Even-Aged Draft Field Sawtimber Harvest Well Retention Spruce/Fir Boundary New

Habitat Cut: Yes Site Condition:

Prescription Cut all aspen and maple 2" DBH or larger. Cut all spruce, balsam and birch with one or more pulpwood stick, 4" DBH. No red or white pine or

Specs: oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen and fir.

Regen:

Other Retention will be in drain marked out in SW part of stand.

Comment:

Proposed Start Date: 10/1 /2019

12169068-15-Draft Field 8.0 4130 - Aspen Sawtimber 53 81-110 Harvest Clearcut with 4134 - Aspen, Even-Aged New Well Retention Spruce/Fir Boundary

Habitat Cut: Yes Site Condition:

Prescription Cut all aspen and maple 2" DBH or larger. Cut all spruce, balsam and birch with one or more pulpwood stick, 4" DBH. No red or white pine or

Specs: oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen and fir.

Regen:

Other Retention will be in drain, marked out in stand 67.

Comment:

Proposed Start Date: 10/1 /2019

12169075-14-111-24.4 4119 - Mixed Sawtimber 92 Harvest Single Tree 411 - Northern Draft Field Uneven-Northern Hardwoods 140 Hardwood Well Selection Aged Boundary New

Habitat Cut: Yes Site Condition:

Prescription Mark hardwood to 80BA. Open up around large crown oak trees. Favor yellow birch. Cut all aspen, spruce and balsam 6" DBH or greater.

Specs: Leave all red and white pine, cedar, hemlock and oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of maple, oak and aspen.

Regen:

Other Some slopes too steep to operate on may leave some aspen which will serve as soft snags for wildlife. Protect vernal ponds.

Comment:

Proposed Start Date: 10/1 /2019

Crystal Falls Mgt. Unit Report 3 -- Treatments Compartment: 169 s Year of Entry: 2020 t а **Treatment Cover Type Treatment** Acres Stand Size Stand BA **Treatment** Age **Approval** n Method Objective Status Density Structure d Name CoverType Age Range Type Pesticide 401 12169401-9.6 3102 - Grass Unspec Hand Application 3102 - Grass Draft Field Nonstocked ified Boundary Spray **Site Condition: Habitat Cut:** No Prescription Herbicide treatment for control of wild parsnip Specs: Next Step Seeding, Machine Seed; Monitoring, Invasive Species Treatments: <u>Acceptable</u> Regen:

Total Treatment 445.0 Acreage Proposed:

10/1 /2018

Other Comment:

Proposed Start Date:

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 169 Year of Entry: 2020

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Cond	ditions
Acres	Available	With Condition	Not Available		5C	2G	3J	3L
874	783	60	31	Aspen	60		31	
31	31	0	0	Cedar				
19	19	0	0	Herbaceous Openland				
15	0	0	15	Lowland Conifers		15		
55	8	0	46	Lowland Deciduous		46		
17	11	0	6	Lowland Mixed Forest			6	
36	36	0	0	Lowland Shrub				
14	14	0	0	Lowland Spruce/Fir				
16	16	0	0	Mixed Upland Deciduous				
362	362	0	0	Northern Hardwood				
32	0	32	0	Oak	32			
3	3	0	0	Sand, Soil				
3	3	0	0	Treed Bog				
23	21	0	2	Upland Spruce/Fir				2
13	13	0	0	Urban				
8	8	0	0	Water				
1,520	1,329	92	99	Total Forested Acres	92	61	36	2
	87%	6%	7%	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	2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Buffer for Gages Cr	eek.					

Report 4 – Site Conditions

Crystal Falls Mgt. Unit Scott Sebero : Examiner Compartment: 169
Year of Entry: 2020

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Buffer for Gages C	Creek.					
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
9	Unavailable	3L: Other wildlife concerns	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Movement corridor	7.					

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: 169
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.

Conservati Area	ion 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 constocked trout populations and those of other coldwater fish conditions for coldwater fishes may occur in Michigan lakes groundwater inflows, or are located in colder (northern) are Director's action and designated as trout resources by Fish	species to persist from year to year. Suitable s if they are relatively deep, have substantial eas of the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen stocked trout populations and those of other coldwater fish year to year. Coldwater streams in Michigan typically provide contributions of groundwater to their stream flows. Such stressing designated as trout resources by Fisheries Order 210.	species (e.g., slimy sculpin) to persist from de these conditions due to substantial

S t	Crystal Falls	Crystal Falls Mgt. Unit		Report 7	– Forested S		Compartment: 169 Year of Entry: 2020	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Gen Comm		MICHIGAN .
1	4110 - Sugar Maple Association	Sawtimber Well	37.0	90	141-170	Thinned i	n 2002.	
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	39.6	90	81-110	Stand thinned, east s	ide of road in 2012.	
3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	16.3	90	81-110			
4	4130 - Aspen	Poletimber Well	48.0	37	51-80			
5	4130 - Aspen	Poletimber Well	37.8	42	51-80			
6	4123 - Red Oak	Sawtimber Well	32.0	90	111-140	Should think about regenerat sprouted maple will be m	ing oak next entry. erchantable next er	Stump try.
7	42330 - Upland Fir	Poletimber Well	12.3	60	81-110			_
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	33.7	90	111-140			
9	42320 - Upland Spruce	Poletimber Well	10.4	93	81-110			
10	4130 - Aspen	Poletimber Well	24.9	33	51-80			
11	6122 - Black Spruce	Poletimber Poor	3.8	90	1-50			
12	4130 - Aspen	Sapling Well	6.5	5	Immature			
13	6115 - Lowland Ash	Poletimber Medium	46.0	90	51-80			
14	4130 - Aspen	Sawtimber Well	88.1	52	81-110	Spruce mainly in e	ast half of stand.	
15	4130 - Aspen	Poletimber Well	125.7	33	51-80			
16	4110 - Sugar Maple Association	Sawtimber Well	17.2	90	81-110			_
17	4110 - Sugar Maple Association	Sawtimber Well	19.2	90	81-110	OPIC - FMD:	cut in 2002	
19	6122 - Black Spruce	Poletimber Well	2.1	90	81-110			

S t	Crystal Falls	Crystal Falls Mgt. Unit			Forested	Stands Compartment: 169 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4110 - Sugar Maple Association	Sawtimber Well	18.5	90	141-170	Stand thinned in 2007 as Magnetic Hardwoods. Pocket of red oak in NW part of stand.
23	4110 - Sugar Maple Association	Sawtimber Well	84.3	90	111-140	Thinned in 2002.
25	4130 - Aspen	Poletimber Well	12.6	48	81-110	
26	4130 - Aspen	Poletimber Well	21.2	33	51-80	
28	4130 - Aspen	Sapling Well	24.1	16	Immature	
30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.6	90	141-170	THINNED IN 2002
32	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	15.0	90	51-80	
34	4130 - Aspen	Sawtimber Well	49.5	52	81-110	
35	4130 - Aspen	Poletimber Well	15.1	33	51-80	
36	6120 - Lowland Cedar	Sawtimber Poor	15.0	90	1-50	
38	6122 - Black Spruce	Poletimber Well	4.0	93	81-110	
39	4130 - Aspen	Sapling Well	10.5	16	51-80	
40	6122 - Black Spruce	Poletimber Medium	4.0	90	51-80	
41	4133 - Aspen, Mixed Pine	Sapling Well	35.4	5	Immature	
42	4130 - Aspen	Poletimber Well	12.2	33	51-80	
43	4136 - Aspen, Mixed Conifer	Poletimber Well	28.1	53	81-110	Most of stand on rocks. Pocket of red pine poles in south along road. Pocket of white pine logs in center of stand.
44	4130 - Aspen	Poletimber Well	64.0	33	51-80	
46	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	11.2	40	1-50	

s t	Crystal Falls Mgt. Unit			Report 7	- Forested Stand	Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4119 - Mixed Northern Hardwoods	Poletimber Well	13.2	88	51-80	Thinned 2013
50	4110 - Sugar Maple Association	Sawtimber Well	36.0	90	81-110	Stand thinned in 2007 as Magnetic Hardwoods.
52	4130 - Aspen	Poletimber Well	12.3	32	51-80	
53	6115 - Lowland Ash	Sapling Medium	8.5	32	Immature	
57	4130 - Aspen	Sapling Well	19.1	3	Immature	
59	4130 - Aspen	Sapling Well	18.5	12	Immature	
61	4134 - Aspen, Spruce/Fir	Sawtimber Well	30.8	88	51-80	
64	4130 - Aspen	Poletimber Well	149.4	33	51-80	
67	4130 - Aspen	Sawtimber Well	15.7	66	81-110	Spruce in poor shape, impacted by budworm.
68	4130 - Aspen	Sawtimber Well	8.0	53	81-110	
69	6139 - Mixed Lowland Forest	Sawtimber Medium	5.6	93	51-80	
73	4130 - Aspen	Sapling Well	16.9	3	Immature	
75	4119 - Mixed Northern Hardwoods	Sawtimber Well	24.4	92	111-140	Thinned in 2007 as Magnetic Hardwoods.
77	6120 - Lowland Cedar	Sawtimber Medium	15.9	90	51-80	



Stand	Cover Type	Acres	Managed Site	General Comments:
18	622 - Lowland Shrub	13.0	No	OPIC - FMD: OI Stand Year Origin was
21	6224 - Treed Bog	3.2	No	
22	6229 - Mixed lowland shrub	10.4	No	Beaver pond contained within stand.
24	3102 - Grass	9.6	Yes	Hunter Walking Trail
31	500 - Water	7.7	No	Small shallow pond. Cattails.
49	110 - Low Intensity Urban	13.1	No	power line
63	6229 - Mixed lowland shrub	12.6	No	
66	710 - Sand, Soil	2.9	No	gravel pit
401	3102 - Grass	9.6	Yes	Hunter walking trail.