

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12173 Entry Year 2018 Acreage: 1,959

County Iron

Management Area: Peavy Moraine

Revision Date: 2016-08-20

Stand Examiner: Scott Sebero

Legal Description:

T41N R32W sections 2-4, 8-12, 14,15 & 17

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. Maintain and improve road system.

Soil and topography:

Soils are sandy loam to loamy sand, rolling hills to wet lowlands.

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

Private and corporate lands scattered throughout compartment. Highly used for recreation.

Unique Natural Features:

Brule River and Paint River Pond.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is in the Peavy End Morraine Management Area which has the following featured species: American woodcock, black bear, wood duck, eastern bluebird, and white-tailed deer. This area is one of the most important oak areas in entire Crystal Falls Forest Area. This area provides excellent bear, deer and wood duck habitat due to the presence of mast producing oak trees. Maintaining and increasing this mast crop is the desired management. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this compartment. Lowland conifers and lowland hardwood types provide winter and summer cover and are essential for travel corridors for a many species of wildlife and provide essential habitat for riparian species, such as wood duck. Deer find critical winter cover in the lowland conifer stands and natural pine stands. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife. This also enables deer to access forage in the uplands during deep snow conditions. Mast production, such as oak, cherry and raspberry are encouraged to provide valuable forage for bear, deer, grouse and turkey.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Michigamme and Dunn Creek Formations and the Badwater Greenstone subcrops below the glacial drift. There is not a current

economic use for these rocks. Abandoned iron mines at Crystal Falls are located seven miles to the north. This Compartment was not previously leased for metallic exploration, but could have potential. A gravel pit is located in Section 9 and there is potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Very good throughout most of compartment. Some two tracks accessible by four wheel drive.

Survey Needs:

Recreational Facilities and Opportunities:

Hunting and fishing. A snowmobile trail runs through the west side of compartment.

Fire Protection:

Additional Compartment Information:

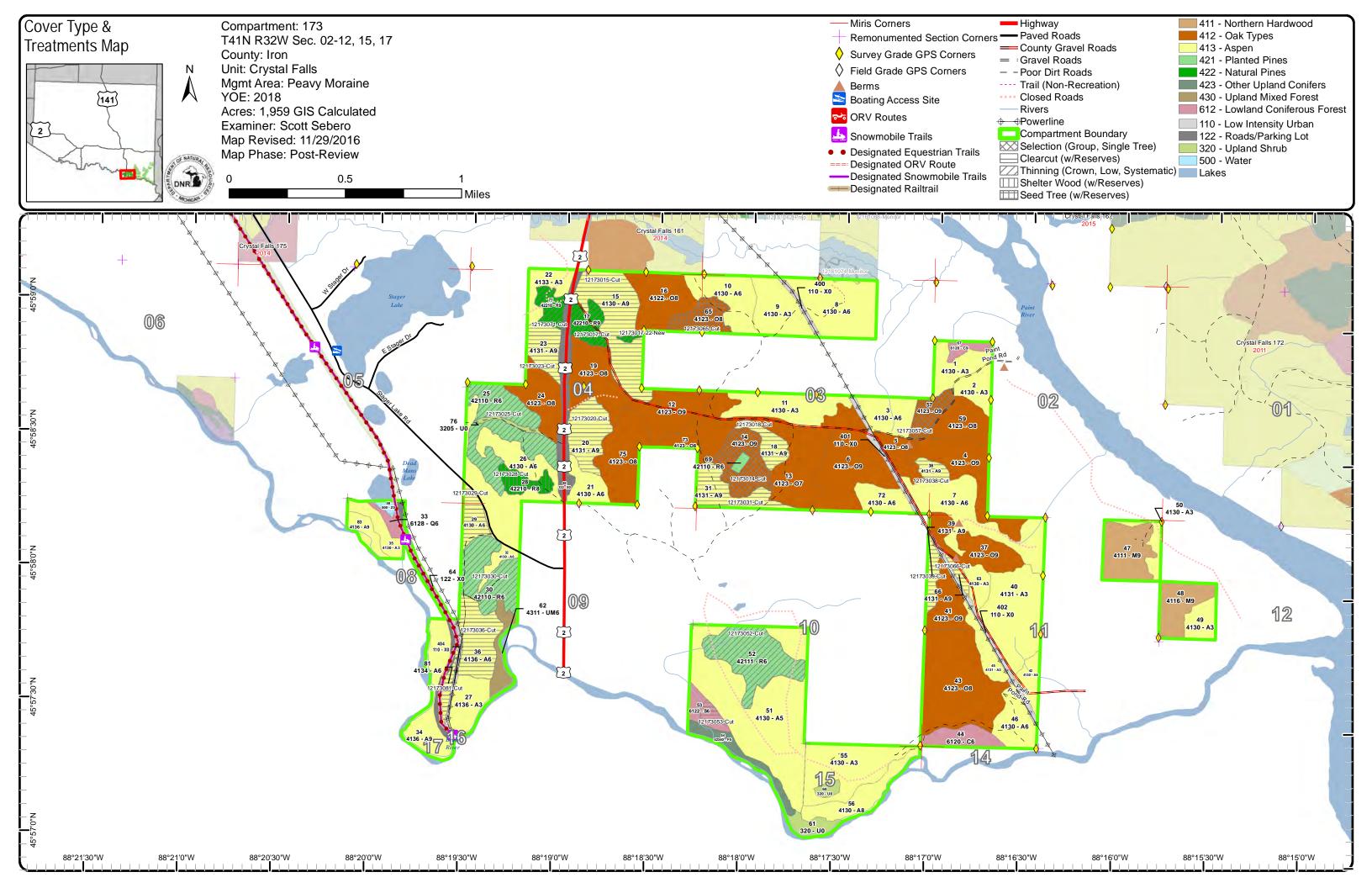
This compartment has had the presence of oak wilt confirmed and has had these areas treated. If other areas of oak wilt are detected, they will be treated.

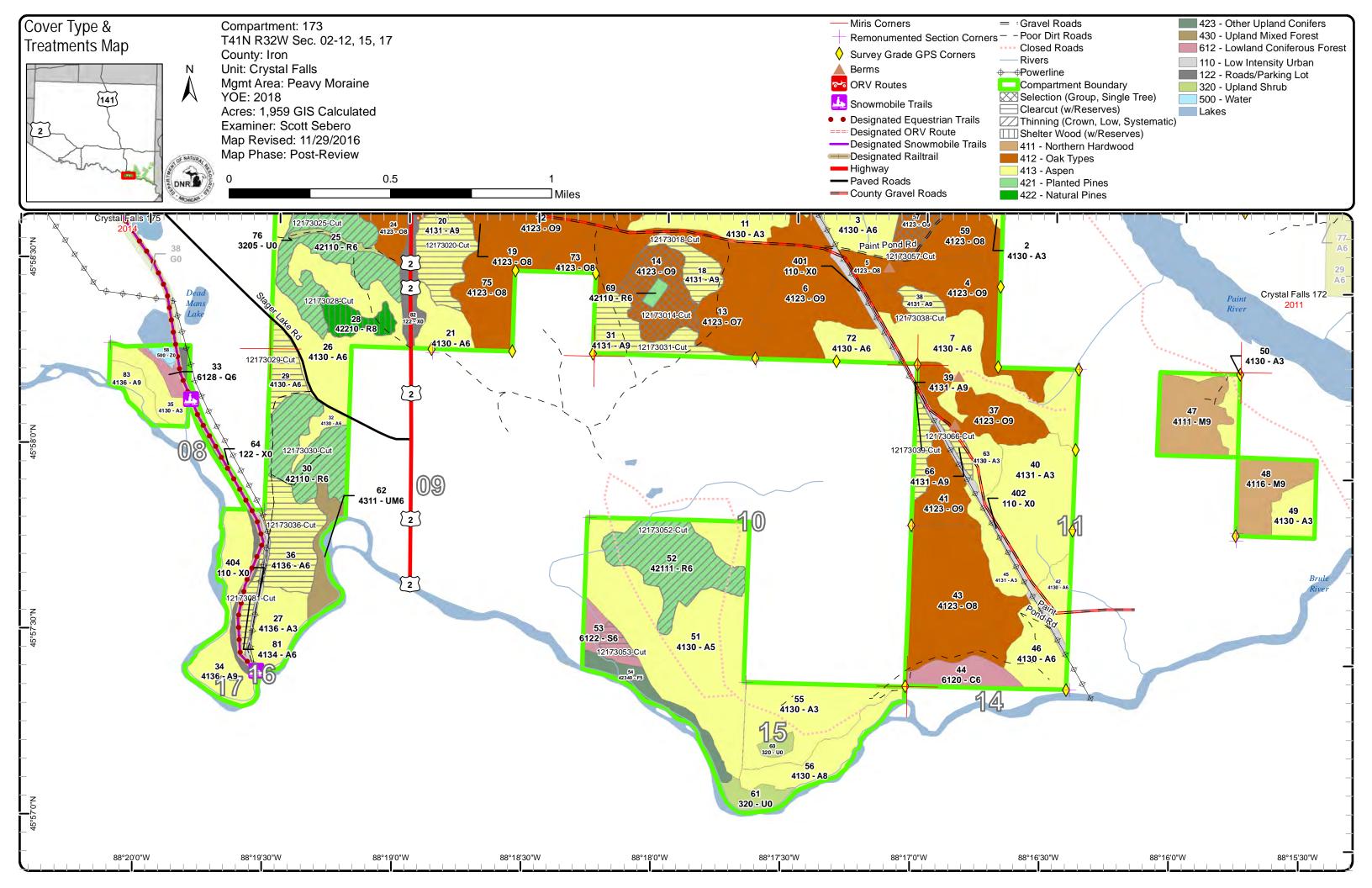
The following reports from the Inventory are attached:

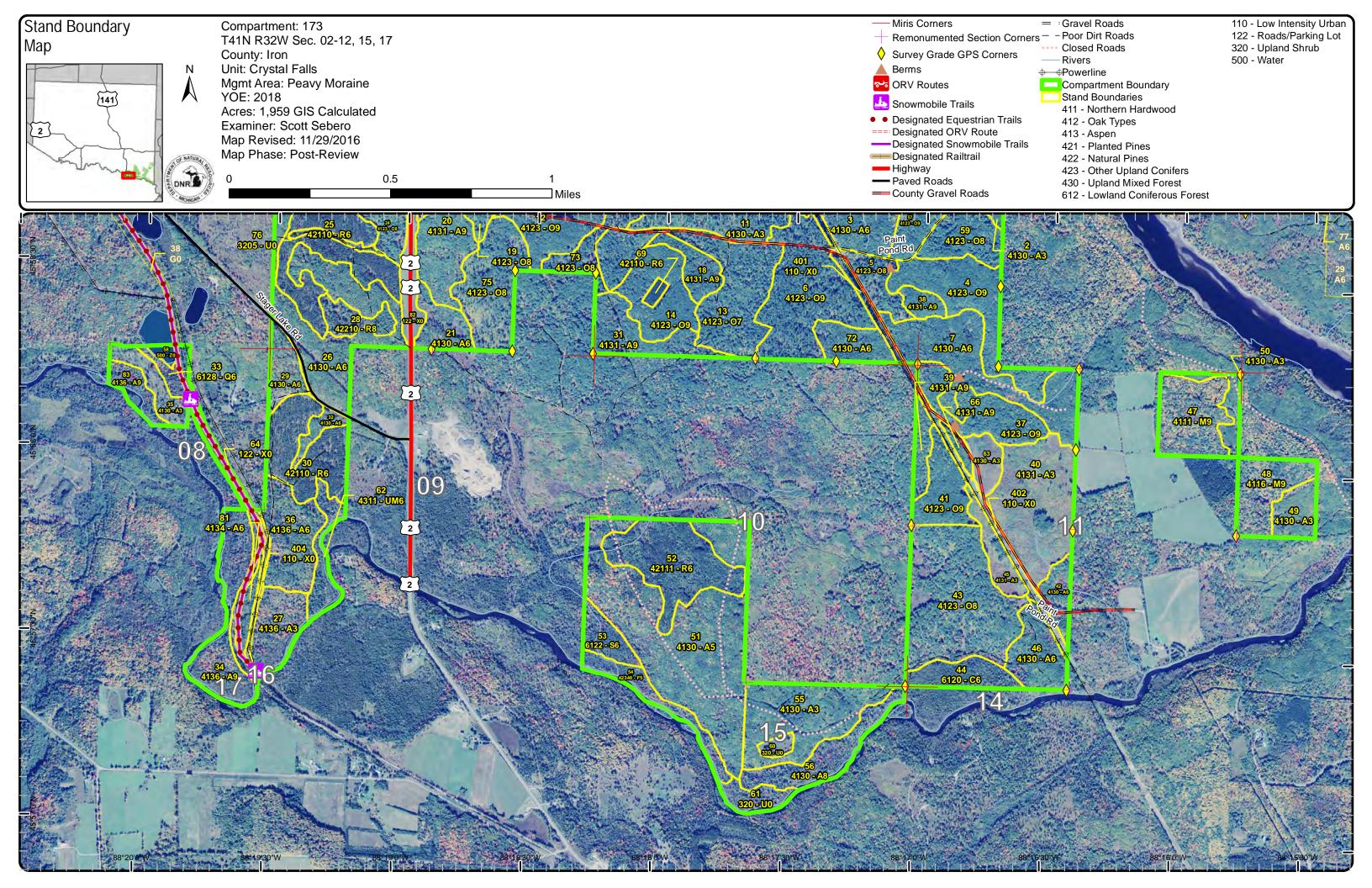
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

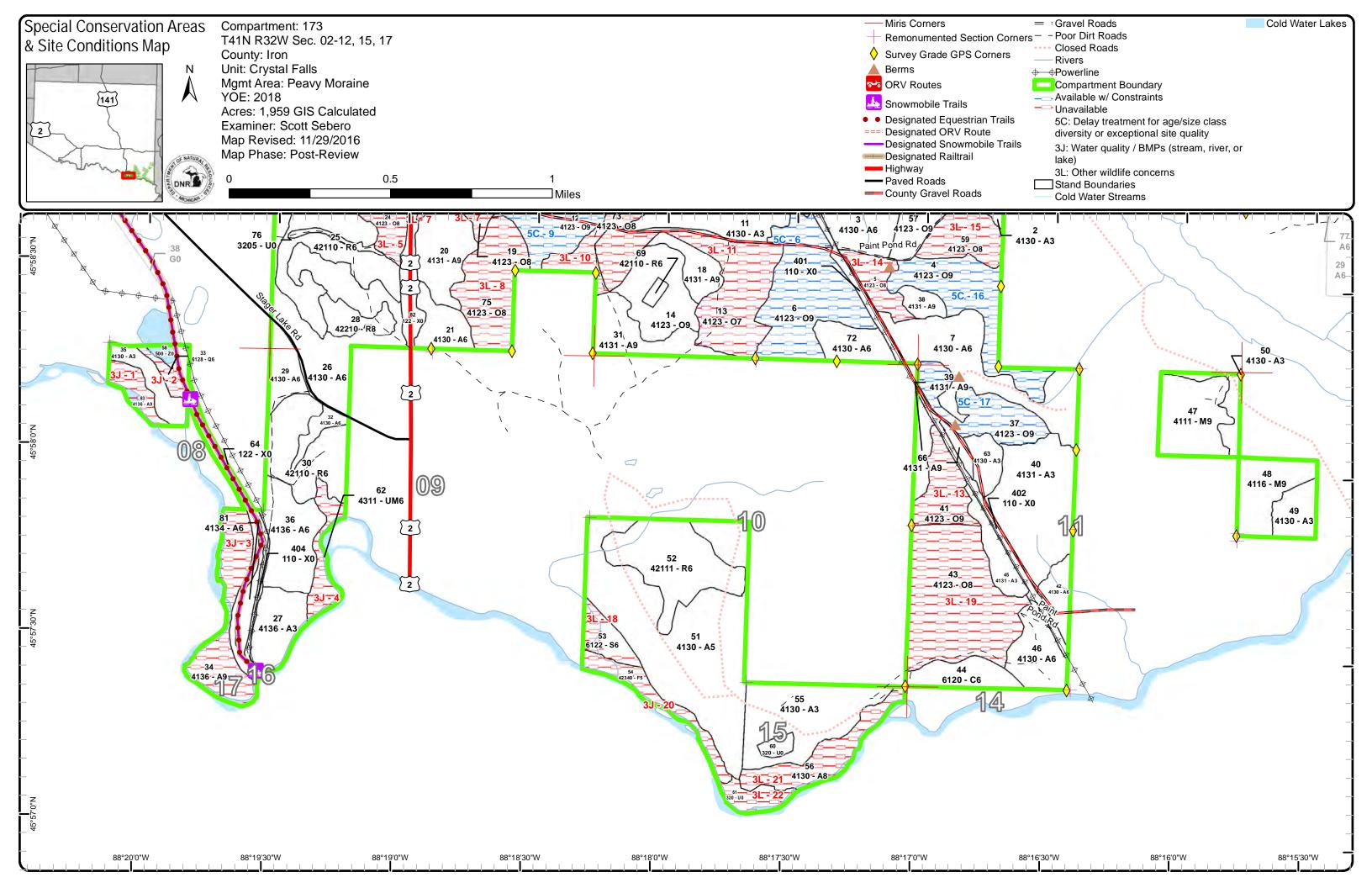
The following information is displayed, where pertinent, on the attached compartment maps:

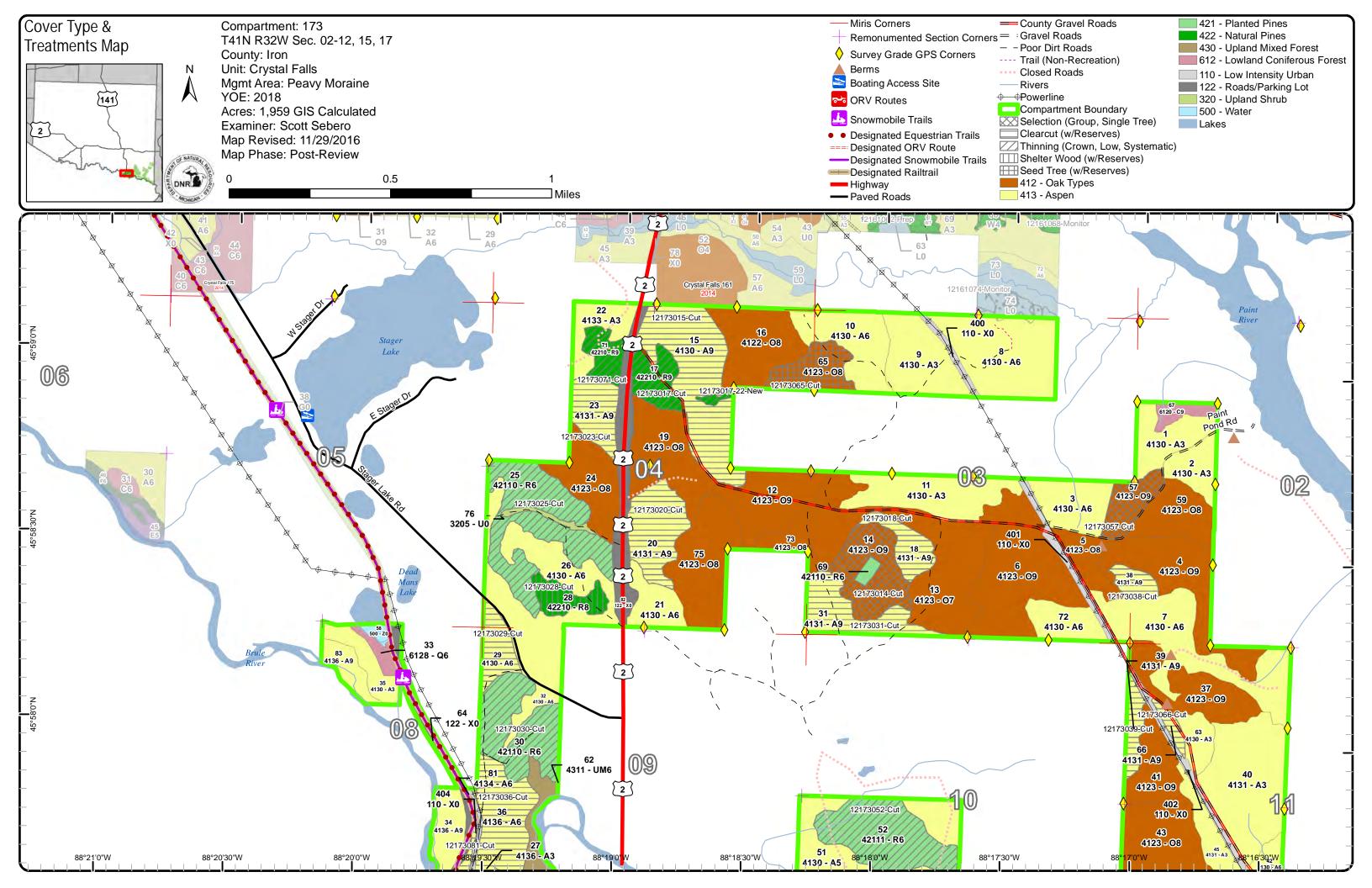
Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries

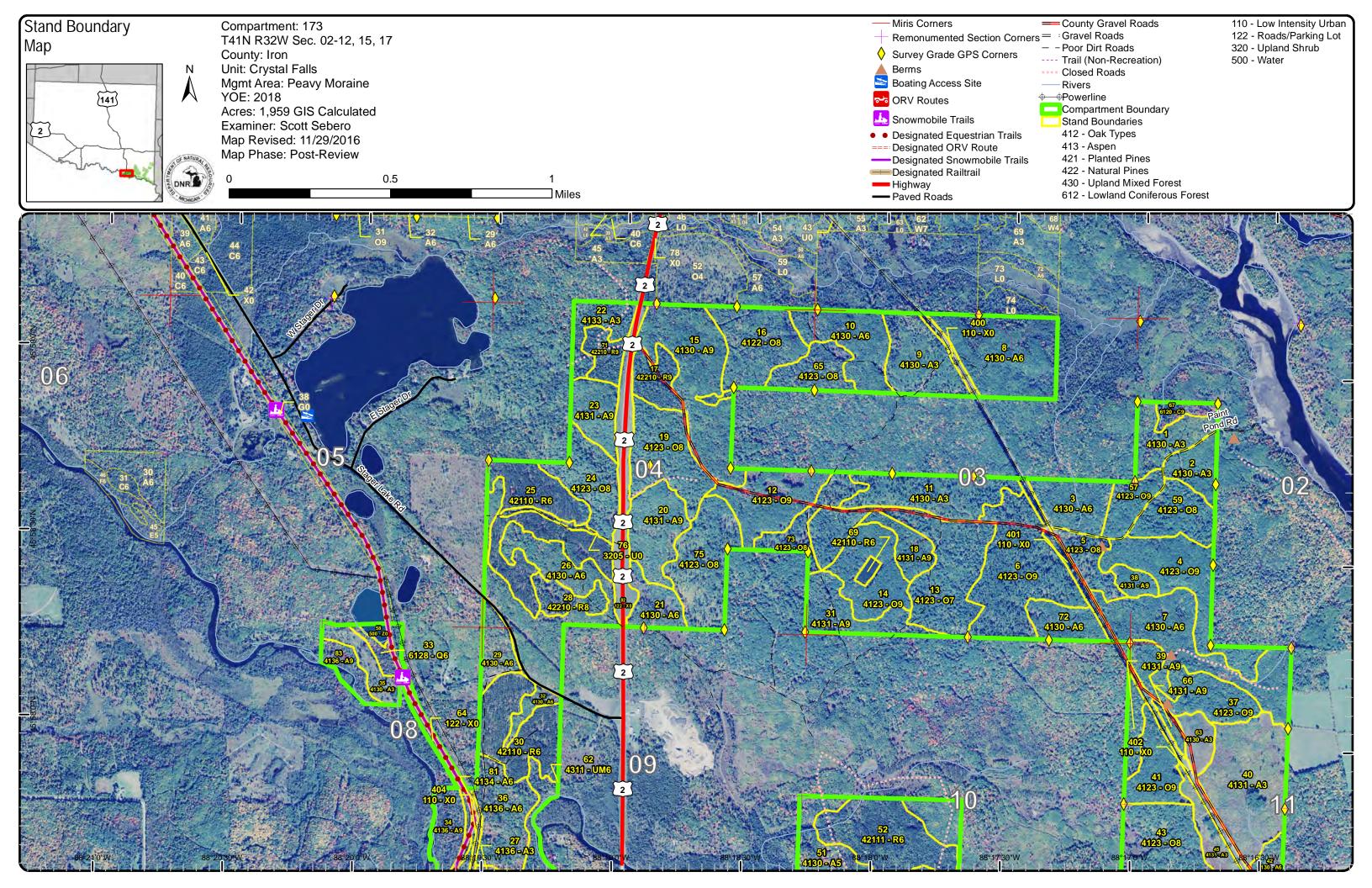


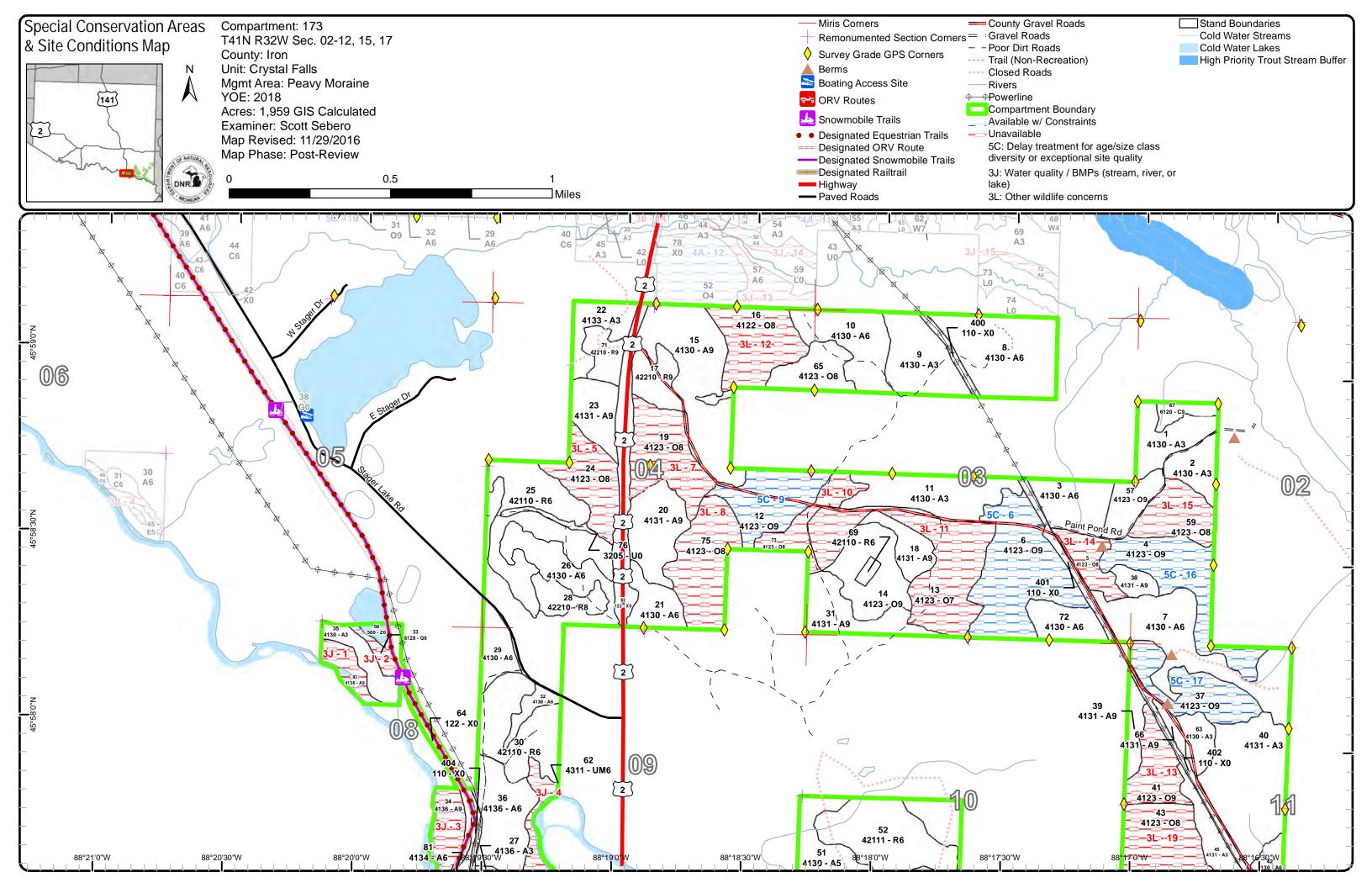












Crystal Falls Mgt. Unit Scott Sebero : Examiner

Age Class

	No.	La San Carrier		\$ \ \	\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\$ \\		, % /%					or I	81, /82,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	St.		Se S
Aspen	0	92	110	79	401	6	13	39	0	0	228	0	0	0	0	0	0	20	988
Cedar	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	23
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	57	0	0	0	0	0	0	0	56
Oak	0	0	0	0	0	0	0	0	0	0	578	0	0	0	0	0	0	0	578
Red Pine	0	0	0	0	2	0	137	0	0	0	27	0	0	0	0	0	0	11	177
Upland Mixed Forest	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	14
Upland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Urban	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	92	92	110	79	403	6	150	53	0	0	947	0	0	0	0	0	0	31	1962



Report 2 – Treatment Summary

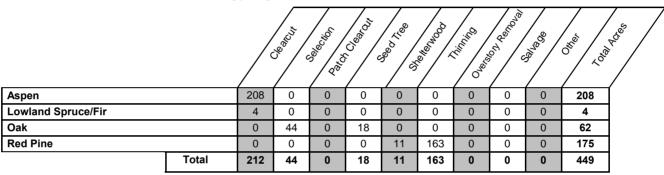
Crystal Falls Mgt. Unit Year of Entry: 2018

Acres of Harvest

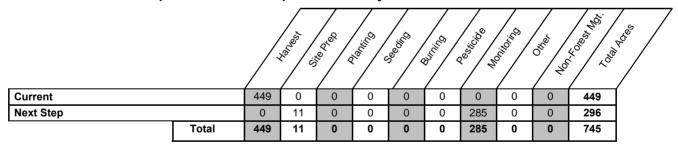
Compartment 173
Total Compartment Acres: 1,959

Commercial Harvest - 448 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



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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
14	12173014-Cut	30.0	4123 - Red Oak	Sawtimber Well	90	141- 170	Harvest	Group Selection	4121 - Oak, Aspen	Even-Aged	Draft Field Boundary	

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2" or greater DBH. Cut all spruce and balsam with one or more pulpwood stick. No oak or red or white pine will be cut. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, red maple and oak.

Regen:

Other WLD: Featured Species: Bear, Deer, Wood duck, Mast production, such as oak, hazel, cherry and raspberry should be maintained and Comment: enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak

mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump

retained where present as this compartment provides winter cover for deer.

10/01/2017 Proposed Start Date:

12173015-Cut 56.8 4130 - Aspen Sawtimber 141-Harvest Clearcut with 4131 - Aspen, Even-Aged Draft Field Well 170 Retention Oak Boundary

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2"or more DBH. Cut all spruce, balsam, jack pine and paper birch with one or more pulpwood sticks. In north half of Specs: stand, cut all oak with one or more pulpwood sticks, except leave oak in a strip 100 feet wide along Paint Pond Road and leave 3 1/2 acre

clumps in heavier areas of oak.. In south half of stand, no oak will be cut, except scattered oak in heavy aspen areas will be cut. No red or white

pine will be cut in all of stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, oak and pine.

Regen:

WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and Other enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak Comment:

mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this compartment provides winter cover for deer. Balancing the age classes of aspen to provide early successional

habitat through mature aspen forest is a goal in this compartment.

Proposed Start Date: 10/01/2017

12173017-22-42210 - Natural Sawtimber 141-Crown Thinning 42210 - Natural Draft Field 1.5 Harvest Even-Aged Red Pine Red Pine Well 170 New Boundary

Habitat Cut: No Site Condition:

Prescription Mark red pine to reduce to 120 BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Comment:

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Treatment Stand BA **Treatment Treatment Cover Type Approval** Acres Stand Size Age Method Objective Name CoverType Density Age Range Type Structure Status d 42210 - Natural 12173017-Cut 14.3 Sawtimber 141-Harvest Crown Thinning 42210 - Natural Even-Aged Draft Field 17 Red Pine Well 170 Red Pine Boundary

Habitat Cut: No Site Condition:

Prescription Mark red pine to reduce to 120 BA.

Specs:

Next Step **Treatments:**

Acceptable Regen:

Other Comment: WLD: Featured Species: Bear, Deer, Wood duck, Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump

retained where present as this compartment provides winter cover for deer.

Proposed Start Date: 10/01/2017

12173018-Cut 12.3 4131 - Aspen, Oak Sawtimber 141-Harvest Clearcut with 4131 - Aspen, Even-Aged Draft Field Oak 170 Well Retention Boundary

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2" or greater DBH. Cut all spruce, balsam and oak with one or more pulpwood sticks, except leave 3, 1/2 acre pockets Specs:

in heavier oak areas. No red or white pine will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen and oak.

Regen:

Other Comment: WLD: Featured Species: Bear, Deer, Wood duck, Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this compartment provides winter cover for deer. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this compartment.

Proposed Start Date: 10/01/2017

4131 - Aspen, 12173020-Cut 27.0 4131 - Aspen, Oak Sawtimber 90 141-Harvest Clearcut with Even-Aged Draft Field 170 Retention Oak Well Boundary

Habitat Cut: No **Site Condition:**

Prescription Cut all aspen and maple 2" or greater DBH. Cut all spruce, balsam and oak with one or more pulpwood sticks, except leave 4, 1/2 acre to 1 acre patches in heavy oak areas. No red or white pine will be cut.

Specs:

Monitoring, Natural Regen (Re-Inventory)

Next Step **Treatments:**

Regen:

Acceptable Mix of aspen and oak.

Other Comment:

WLD: Featured Species: Bear, Deer, Wood duck, Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this compartment provides winter cover for deer. Balancing the age classes of aspen to provide early successional

habitat through mature aspen forest is a goal in this compartment.

10/01/2017 **Proposed Start Date:**

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Compartment: 173

Year of Entry: 2018

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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	12173023-Cut	17.3	4131 - Aspen, Oak	Sawtimber Well	90	141- 170	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2" or greater DBH. Cut all spruce, balsam and jack pine with one or more pulpwood stick. Cut oak with one or more pulpwood sticks, except leave 5, 1/2 acre pockets in areas heavier to oak. No red or white pine will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen and oak.

Regen:

Other WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump

retained where present as this compartment provides winter cover for deer. Balancing the age classes of aspen to provide early successional

habitat through mature aspen forest is a goal in this compartment.

Proposed Start Date: 10/01/2017

42110 - Planted 12173025-Cut 52.0 Poletimber 53 Crown Thinning 4211 - Planted Even-Aged Draft Field 141-Harvest Red Pine Well 170 Red Pine Boundary

Habitat Cut: No Site Condition:

Prescription Mark red pine down to 120 BA. Open up around large topped oaks.

Specs:

Next Step Treatments:

Acceptable Regen:

Other Comment:

WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this compartment provides winter cover for deer.

Proposed Start Date: 10/01/2017

28 12173028-Cut 11.2 42210 - Natural Sawtimber 90 81-110 Harvest Shelterwood with 42290 - Natural Even-Aged Draft Field Red Pine Medium Retention Mixed Pine Boundary

Habitat Cut: No Site Condition:

<u>Prescription</u> Mark large crown healthy red and white pine leave trees to 50 BA. Cut all other trees 2" or greater DBH. Leave all oak. Favor white pine. Specs:

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

Treatments:

Acceptable Mix of red and white pine.

Regen:
Other

Comment:

Regen:

WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump

retained where present as this compartment provides winter cover for deer.

Compartment: 173

Year of Entry: 2018

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a n d	Treatment Name	Acres	Stand CoverType		Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
29	12173029-Cut	13.3	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

<u>Prescription</u> Cut all aspen and maple 2" or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce, balsam and pine.

Regen:

Other Retention will be red and white pine and oak.WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30

miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this compartment provides winter cover for deer. Balancing the age classes of aspen to provide

early successional habitat through mature aspen forest is a goal in this compartment.

Proposed Start Date: 10/01/2017

42110 - Planted 12173030-Cut 37 4 Poletimber 52 Crown Thinning 4211 - Planted Draft Field 111-Harvest Even-Aged Red Pine Well 140 Red Pine Boundary

Habitat Cut: No Site Condition:

Prescription Mark red pine to reduce BA to 120.

Specs:

Next Step Treatments:

Acceptable Regen:

Other Comment:

WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump

retained where present as this compartment provides winter cover for deer.

Proposed Start Date: 10/01/2017

 31
 12173031-Cut
 23.8
 4131 - Aspen, Oak
 Sawtimber
 90
 141- Harvest
 Clearcut with Retention
 4131 - Aspen, Oak
 Even-Aged Boundary

Habitat Cut: No Site Condition:

<u>Prescription</u> Cut all aspen and maple 2" or greater DBH. Cut all spruce, balsam and oak with one or more pulpwood sticks, except leave 3, 1/2 acre to 1 acre <u>Specs:</u> clumps in areas heavier to oak. No red or white pine will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen and oak.

Regen:

Comment:

Other WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, cherry and raspberry are encouraged to provide valuable forage

for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this

compartment provides winter cover for deer. Balancing the age classes of aspen to provide early successional habitat through mature aspen

forest is a goal in this compartment.

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Treatment Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age Approval Method Objective d Name CoverType Density Age Range Type Structure Status 12173036-Cut 31.7 4136 - Aspen, Poletimber 65 81-110 Harvest Clearcut with 4134 - Aspen, Even-Aged Draft Field 36 Mixed Conifer Well Retention Spruce/Fir Boundary

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2" or greater DBH. Cut all spruce, balsam, tamarack and jack pine with one or more pulpwood stick. No red or white Specs: pine or oak will be cut. Protect sub merchantable cherry. Widen Rec. Trail, one boom length on each side along entire length of compartment.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry should be maintained and enhanced to provide Comment: valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this compartment provides winter cover for deer. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this compartment.

Proposed Start Date:

10/01/2017

12173038-Cut 6.5 4131 - Aspen, Oak Sawtimber 90 141-Clearcut with 4131 - Aspen, Draft Field Harvest Even-Aged Well 170 Retention Oak Boundary

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2" or greater DBH. Cut all spruce and balsam with one or more pulpwood stick. No red or white pine or oak will be cut. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen and oak.

Regen:

Other Comment:

10/01/2017 **Proposed Start Date:**

7.9 4131 - Aspen, Oak Sawtimber Draft Field 12173039-Cut 90 141-Harvest Clearcut with 4131 - Aspen, Even-Aged 170 Retention Oak Boundary

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2" or greater DBH. Cut all spruce and balsam with one or more pulpwood stick. No red or white pine or oak will be cut. Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Mix of aspen, maple and oak.

Regen: **Other**

WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak Comment:

mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this compartment provides winter cover for deer. Balancing the age classes of aspen to provide early successional

habitat through mature aspen forest is a goal in this compartment.



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
52	12173052-Cut	47.3	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	53	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Cut every third row of red pine. Cut all aspen, maple, spruce, balsam and jack pine with one or more pulpwood stick. No oak or white pine will be cut. protect sub merchantable cherry. Specs:

Next Step Treatments:

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<u>Acceptable</u> Regen:

Other Comment: WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump

retained where present as this compartment provides winter cover for deer.

10/01/2017 **Proposed Start Date:**

12173053-Cut 4.3 6122 - Black Spruce Poletimber 111-Harvest Clearcut with 612 - Lowland Even-Aged **Draft Field** 140 Retention Coniferous Boundary Forest

Habitat Cut: No Site Condition:

Prescription Cut all trees with one or more pulpwood sticks, except cedar and red and white pine. Leave some black spruce in surround area for seed Specs: source.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of black spruce, balsam and ash.

Regen:

Other Wet ground. Will need to be cut in winter or dry summer.

Comment:

WLD: Featured species: Woodcock, Deer, Bear. Maintain stand as black spruce as deer wintering cover along this river system, black bear

summer habitat, Riparian habitat for a variety of species. Large diameter cavity trees provide wood duck nesting habitat.

10/01/2017 Proposed Start Date:

12173057-Cut 14 1 4123 - Red Oak Sawtimber 141-4121 - Oak, Even-Aged Draft Field Harvest **Group Selection** 170 Well Aspen Boundary

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2" or greater DBH. Cut all spruce and balsam with one or more pulpwood stick. No red or white pine or oak will be cut. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, maple and oak.

Regen:

WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and <u>Other</u> enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak Comment: mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump

retained where present as this compartment provides winter cover for deer.

Compartment: 173

Year of Entry: 2018

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Treatment Stand BA **Treatment Treatment Cover Type** Acres Stand Size Age Approval n Method Objective Name CoverType Density Age Range Type Structure **Status** d 12173065-Cut 18.1 4123 - Red Oak Sawtimber 90 81-110 Harvest Seed Tree with 4122 - Oak, Pine Even-Aged Draft Field 65 Medium Retention Boundary

Habitat Cut: No Site Condition:

Prescription Cut all trees with one or more pulpwood sticks except marked leave trees and red and white pine. Mark any good quality, large crown red oak Specs:

trees to leave. Mark up to 5 healthy pin oak trees per acre to leave.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of oak and pine.

Regen:

Other Oak in stand are dying.

Comment: WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and

enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump

retained where present as this compartment provides winter cover for deer.

Proposed Start Date: 10/01/2017

12173066-Cut 3.6 4131 - Aspen, Oak Sawtimber 90 Harvest Clearcut with 413 - Aspen Draft Field 141-Even-Aged Well 170 Retention Boundary

Habitat Cut: No Site Condition:

Prescription Cut all trees 2" DBH or larger except red or white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, mixed hardwood and pine.

Regen:

Stand across road previously treated for oak wilt. Other

WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and Comment:

enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this compartment provides winter cover for deer. Balancing the age classes of aspen to provide early successional

habitat through mature aspen forest is a goal in this compartment.

10/01/2017 **Proposed Start Date:**

12173071-Cut 10.8 42210 - Natural Sawtimber 141-Harvest Crown Thinning 42290 - Natural Even-Aged **Draft Field** Red Pine Well 170 Mixed Pine Boundary

Habitat Cut: No Site Condition:

Prescription Mark to reduce BA to 120.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak Comment:

mast in this compartment. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump

retained where present as this compartment provides winter cover for deer.

Crystal Falls Mgt. Unit

Report 3 -- Treatments

Compartment: 173 Year of Entry: 2018



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
81	12173081-Cut	7.3	4134 - Aspen, Spruce/Fir	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

<u>Prescription</u> Specs: Cut all aspen and maple 2" or greater DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine or oak will be cut. Protect sub merchantable cherry.

will be cut. Protect sub merchantable cherry.

Monitoring, Natural Regen (Re-Inventory)

Next Step Treatments:

rrodimonio.

<u>Acceptable</u> Mix of aspen, spruce and balsam. <u>Regen:</u>

s

Other Cut out Rec. trail, one boom width on each side, the full length of the trail.

Comment:

WLD: Featured Species: Bear, Deer, Wood duck. Mast production, such as oak, hazel, cherry and raspberry should be maintained and enhanced to provide valuable forage for bear, deer, grouse and turkey. Bears are documented to travel more than 30 miles to access the oak mast in this compartment. Large diameter trees with cavities should be retained to provide nesting and denning habitat. Promoting mesic conifer within stand diversity is important: White pine, hemlock, cedar and spruce/fir 6" stump retained where present as this compartment provides winter cover for deer. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this

compartment.

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed:

448.5

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 173
Year of Entry: 2018

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Cond	ditions
Acres	Available	With Condition	Not Available		5C	3J	3L	
987	916	0	71	Aspen		45	26	
23	23	0	0	Cedar			0	
5	0	0	5	Lowland Conifers		5		
12	4	0	7	Lowland Spruce/Fir			7	
57	57	0	0	Northern Hardwood				
577	63	163	350	Oak	163		350	
177	177	0	0	Red Pine			0	
14	0	0	14	Upland Mixed Forest		14		
17	7	0	10	Upland Shrub			10	
17	0	0	17	Upland Spruce/Fir		17		
71	71	0	0	Urban				
3	3	0	0	Water				
1,959	1,321	163	475	Total Forested Acres	163	81	394	
	67%	8%	24%	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 Dominant Site No. Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1 Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
2 Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						

Report 4 – Site Conditions

Compartment: 173

Crystal Falls Mgt. Unit

Scott Sebero : Examiner Year of Entry: 2018

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	35	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	Unavailable	3L: Other wildlife concerns	27	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Wildlife Division pre	evented oak from being cut.					
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	60	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Aspen removed las	et entry. A few oak removed.					
7	Unavailable	3L: Other wildlife concerns	36	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Wildlife Division wo	ouldn't allow oak to be cut.					
8	Unavailable	3L: Other wildlife concerns	40	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:	n't allow oak to be cut.					

Report 4 - Site Conditions

Compartment: 173

Year of Entry: 2018 Scott Sebero: Examiner 9 Unspecified Unspecified Unspecified Unspecified **Available** 5C: Delay treatment for 32 age/size class diversity or exceptional site quality **Comments:** Unspecified Unspecified Unspecified Unspecified 10 Unavailable 3L: Other wildlife 17 concerns Comments: Wildlife Division wouldn't allow oak to be cut. 11 Unspecified Unspecified Unspecified Unspecified Unavailable 3L: Other wildlife 61 concerns Comments: Wildlife Division wouldn't allow oak to be cut. 12 Unspecified Unspecified Unspecified Unspecified 3L: Other wildlife 35 Unavailable concerns **Comments:** Wildlife Division wouldn't allow oak to be cut. Unspecified Unspecified Unspecified 13 Unavailable 3L: Other wildlife 21 Unspecified concerns **Comments:** Unspecified 14 Unavailable 3L: Other wildlife 14 Unspecified Unspecified Unspecified concerns Comments: Wildlife Division prevented cutting of oak.

Crystal Falls Mgt. Unit

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 173
Year of Entry: 2018

Unavailable	3L: Other wildlife concerns	22	Unspecified	Unspecified	Unspecified	Unspecified
	evented cutting of oak.					
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
	and no real loss of any other sp	oecies.				
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
	. Aspen cut out in 1978.					
Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	3L: Other wildlife concerns	79	Unspecified	Unspecified	Unspecified	Unspecified
	ouldn't allow oak to be cut.					
Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
	Comments: Wildlife Division pro Available Comments: Oak in good shape Available Comments: Oak in good shape Unavailable Comments: Unavailable Comments: Wildlife Division wo	Comments: Wildlife Division prevented cutting of oak. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape and no real loss of any other space of the space of th	Comments: Wildlife Division prevented cutting of oak. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape and no real loss of any other species. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape. Aspen cut out in 1978. Unavailable 3L: Other wildlife concerns Comments: Unavailable 3L: Other wildlife 79 concerns Comments: Wildlife Division wouldn't allow oak to be cut. Unavailable 3J: Water quality / BMPs (stream, river, or lake)	Comments: Wildlife Division prevented cutting of oak. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape and no real loss of any other species. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape. Aspen cut out in 1978. Unavailable 3L: Other wildlife concerns Comments: Unavailable 3L: Other wildlife 7 Unspecified Comments: Unavailable 3L: Other wildlife 79 Unspecified Comments: Wildlife Division wouldn't allow oak to be cut. Unavailable 3J: Water quality / BMPs 17 Unspecified (stream, river, or lake)	Comments: Wildlife Division prevented cutting of oak. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape and no real loss of any other species. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape. Aspen cut out in 1978. Unavailable 3L: Other wildlife 7 Unspecified Unspecified Comments: Unavailable 3L: Other wildlife 79 Unspecified Unspecified Comments: Wildlife Division wouldn't allow oak to be cut. Unavailable 3J: Water quality / BMPs (stream, river, or lake)	Comments: Wildlife Division prevented cutting of oak. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape and no real loss of any other species. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape and no real loss of any other species. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Oak in good shape. Aspen cut out in 1978. Unavailable 3L: Other wildlife 7 Unspecified Unspecified Unspecified Comments: Unavailable 3L: Other wildlife 79 Unspecified Unspecified Unspecified Comments: Wildlife Division wouldn't allow oak to be cut. Unavailable 3J: Water quality / BMPs (stream, river, or lake) 17 Unspecified

Report 4 – Site Conditions

Compartment: 173

Crystal Falls Mgt. Unit

Scott Sebero : Examiner Year of Entry: 2018

21	Unavailable	3L: Other wildlife concerns	26	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
R	Riparian habitat/mov	ement corridor/deer winterir	ng cover				
22	Unavailable	3L: Other wildlife concerns	10	Unspecified	Unspecified	Unspecified	Unspecified
С	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				

Crystal Falls Mgt. Unit Compartment: 173
Year of Entry 2018



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 = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen stocked trout populations and those of other coldwater ficonditions for coldwater fishes may occur in Michigan la groundwater inflows, or are located in colder (northern) a Director's action and designated as trout resources by F	ish species to persist from year to year. Suitable kes if they are relatively deep, have substantial areas of the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxyg stocked trout populations and those of other coldwater fi year to year. Coldwater streams in Michigan typically pro contributions of groundwater to their stream flows. Such designated as trout resources by Fisheries Order 210.	ish species (e.g., slimy sculpin) to persist from ovide these conditions due to substantial

S t				Report 7	Forested	Stands Compartment: 173 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Sapling Well	19.9	16	Immature	100 ft. wide strip of 30 year old aspen along west side of stand. Left because of old trespass.
2	4130 - Aspen	Sapling Well	14.0	24	Immature	
3	4130 - Aspen	Poletimber Well	22.2	37	51-80	
4	4123 - Red Oak	Sawtimber Well	41.2	90	141-170	
5	4123 - Red Oak	Sawtimber Medium	14.2	90	51-80	OPIC - FMD: Clearcut with 3-10% oak retention . Also cut no pine.(2006) Clearcut stand and cut 2 oak per acre with all other oak and pine to be left as reserve trees. (post review 2007) Clear cut in 2010 with residual oak and pine from 1928. (2010)
6	4123 - Red Oak	Sawtimber Well	60.4	90	81-110	OPIC - FMD: Shelterwood cut to 50' BA oak retention. Summer cut for scarification (after July 15). (2006) Shelterwood cut in 2010. Everything removed but oak and pine. (2010)
7	4130 - Aspen	Poletimber Well	55.1	38	51-80	
8	4130 - Aspen	Poletimber Well	50.5	39	81-110	
9	4130 - Aspen	Sapling Well	30.3	16	Immature	
10	4130 - Aspen	Poletimber Well	30.2	39	81-110	
11	4130 - Aspen	Sapling Well	35.4	14	Immature	
12	4123 - Red Oak	Sawtimber Well	31.8	90	111-140	
13	4123 - Red Oak	Sawtimber Poor	60.6	90	1-50	
14	4123 - Red Oak	Sawtimber Well	30.0	90	141-170	
15	4130 - Aspen	Sawtimber Well	56.9	90	141-170	Aspen starting to break up. Paper birch almost completely fallen out. Heavy white pine regen in NW portion of stand. Most of the oak in the stand is at the south side.
16	4122 - Oak, Pine	Sawtimber Medium	34.6	90	51-80	Oak is mostly poor formed pin oak.
17	42210 - Natural Red Pine	Sawtimber Well	15.9	90	141-170	

S t	Crystal Fall	s Mgt. Unit		Report 7	– Forested	Stands Compartment: 173 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4131 - Aspen, Oak	Sawtimber Well	12.3	90	141-170	
19	4123 - Red Oak	Sawtimber Medium	36.0	90	1-50	
20	4131 - Aspen, Oak	Sawtimber Well	27.0	90	141-170	
21	4130 - Aspen	Poletimber Well	14.7	38	51-80	
22	4133 - Aspen, Mixed Pine	Sapling Well	15.9	23	51-80	OPIC - FMD: R.&W.PINE SEEDS AND SAPS SCATTERED THROUGHOUT; ALSO OAKS LEFT R.PINE SEEDING IN ON TRAIL.(1996) Aspen removed in 1996. Red and white pine saps throughout sale. Large areas of dense pole and log trees, aspen saps less than 2". (2006)
23	4131 - Aspen, Oak	Sawtimber Well	17.3	90	141-170	
24	4123 - Red Oak	Sawtimber Medium	26.8	90	51-80	Stand is really a sap stand with log sized residual from 1993 harvest.
25	42110 - Planted Red Pine	Poletimber Well	52.1	53	141-170	
26	4130 - Aspen	Poletimber Well	59.3	39	81-110	
27	4136 - Aspen, Mixed Conifer	Sapling Well	21.6	15	1-50	Aspen was cut out and other species retained before state acquired parcel.
28	42210 - Natural Red Pine	Sawtimber Medium	11.2	90	81-110	
29	4130 - Aspen	Poletimber Well	13.3	56	81-110	Aspen starting to break up.
30	42110 - Planted Red Pine	Poletimber Well	37.4	52	111-140	
31	4131 - Aspen, Oak	Sawtimber Well	23.9	90	141-170	
32	4130 - Aspen	Poletimber Well	6.1	40	81-110	Scattered clumps of oak.
33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.2	90	81-110	INCLUDES OUTLET FROM DEADMANS LAKE. Also includes buffer along Deadman's Lake, which is mostly upland.
34	4136 - Aspen, Mixed Conifer	Sawtimber Well	35.3	91	111-140	Leave for buffer along Brule River.

s	Crystal Falls	Crystal Falls Mgt. Unit			- Forested \$	Stands Compartment: 173 Year of Entry: 2018
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4130 - Aspen	Sapling Well	12.7	4	Immature	Parking area for walk down to Brule River established in this stand
36	4136 - Aspen, Mixed Conifer	Poletimber Well	31.7	65	81-110	
37	4123 - Red Oak	Sawtimber Well	30.2	90	111-140	Portion of stand harvested 2013 where oak wilt was present (Now stands 57 & 63).OPIC - FMD: ASPEN CUT OUT IN 1976 (1996)
38	4131 - Aspen, Oak	Sawtimber Well	6.5	90	141-170	
39	4131 - Aspen, Oak	Sawtimber Well	8.6	90	141-170	
40	4131 - Aspen, Oak	Sapling Well	57.1	5	Immature	Pocket of log sized oak left in middle of stand. Some stump sprouted oak on NW side dead from oak wilt.
41	4123 - Red Oak	Sawtimber Well	21.1	90	141-170	
42	4130 - Aspen	Poletimber Well	10.7	38	51-80	
43	4123 - Red Oak	Sawtimber Medium	79.2	90	51-80	
44	6120 - Lowland Cedar	Poletimber Well	16.6	90	141-170	
45	4131 - Aspen, Oak	Sapling Well	12.5	5	Immature	Pocket of log sized oak left in center of stand next to road.
46	4130 - Aspen	Poletimber Well	21.7	38	81-110	
47	4111 - S.Maple, Hard Mast Association	Sawtimber Well	31.9	90	81-110	OPIC - FMD: Cut in 2001 as Brule River Timber Sale.(2006)
48	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	24.6	90	81-110	
49	4130 - Aspen	Sapling Well	13.3	15	Immature	
50	4130 - Aspen	Sapling Well	9.2	15	Immature	OPIC - FMD: Cut in 2001 as Brule River Timber Sale.(2006)
51	4130 - Aspen	Poletimber Medium	121.0	35	51-80	
52	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	47.3	53	141-170	

s t				Report 7	– Forested	Stands Compartment: 173 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	6122 - Black Spruce	Poletimber Well	11.8	90	111-140	Spruce falling apart. Most of the cedar is along the north side of the stand.
54	42340 - Upland Spruce/Fir	Poletimber Medium	16.7	90	51-80	Buffers Brule River. (2006) A few drains and hills. Most of balsam and a lot of the spruce are dead or dying.
55	4130 - Aspen	Sapling Well	49.0	27	Immature	
56	4130 - Aspen	Sawtimber Medium	25.9	90	51-80	Stand has a series of drains throughout stand. Leave 100 foot buffer for Brule River. Aspen has fallen out of some portions of stand and has heavy black ash regeneration.
57	4123 - Red Oak	Sawtimber Well	14.1	90	141-170	
59	4123 - Red Oak	Sawtimber Medium	22.4	90	51-80	OPIC - FMD: ASPEN HARVESTED(1992)
62	4311 - Pine, Aspen Mix	Poletimber Well	14.0	65	111-140	Buffer along Brule River and small drain to river.
63	4130 - Aspen	Sapling Well	9.9	3	Immature	Harvested 2013 due to Oak wilt.
65	4123 - Red Oak	Sawtimber Medium	18.1	90	81-110	Oak is dying. Almost all pin oak. Firewood cutters have been cutting trees as the dye.
66	4131 - Aspen, Oak	Sawtimber Well	3.6	90	141-170	
67	6120 - Lowland Cedar	Sawtimber Well	6.4	90	111-140	
69	42110 - Planted Red Pine	Poletimber Well	2.3	33	171-200	OPIC - FMD: Red pine plantation, part of old ELF study area. (2006)
71	42210 - Natural Red Pine	Sawtimber Well	10.8	90	141-170	
72	4130 - Aspen	Poletimber Well	15.4	38	51-80	
73	4123 - Red Oak	Sawtimber Medium	16.8	90	51-80	OPIC - FMD: ALSO W1 IN UNDERSTORY SOME PLACES(1996). Formerly a part of stand 12. Clear cut with oak, pine retention(2006) Clearcut stand and cut 2 oak per acre with all other oak and pine to be left as reserve trees. (post review 2007) 17 acres of this stand were cut as sale # 12-071-08- 01 in 2009. See sale specs. Stand is now basically an oak stand with aspen understory coming in.
75	4123 - Red Oak	Sawtimber Medium	39.6	90	51-80	OPIC - FMD: Clearcut retaining oak and pine. (2006) Clearcut stand and cut 2 oak per acre with all other oak and pine to be left as reserve trees. (post review 2007) Stand cut in 2009, sale # 12-071-08-01. See sale for specs.

s t	Crystal Falls		Report 7	- Forested Stands	Compartment: 173 Year of Entry: 2018	DNR DNR	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN
81	4134 - Aspen, Spruce/Fir	Poletimber Well	7.3	65	81-110	Spruce and balsam in poor condition.	
83	4136 - Aspen, Mixed Conifer	Sawtimber Well	10.1	90	111-140	Buffer for Brule River.	

Report 8 - Nonforested Stands

Compartment: 173 Year of Entry: 2018



Stand	Cover Type	Acres	Managed Site	General Comments:
58	500 - Water	2.7	No	Dead Man's Lake.
60	320 - Upland Shrub	3.7	No	
61	320 - Upland Shrub	10.0	No	OPIC - FMD: LEAVE FOR BUFFER(1996) Buffers Brule River. (2006)
64	122 - Road/Parking Lot	16.1	No	Iron County Rec. Trail
76	3205 - Mixed Upland Shrub	3.0	No	Fuel break in red pine plantation growing in with shrubs.
82	122 - Road/Parking Lot	26.9	No	US 2
400	110 - Low Intensity Urban	3.9	No	Power line
401	110 - Low Intensity Urban	8.0	No	Power line
402	110 - Low Intensity Urban	12.0	No	Power line
404	110 - Low Intensity Urban	4.6	No	Power line