

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12075 Entry Year 2019 Acreage: 846

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2017-08-18

Stand Examiner: Mike Brodeur

Legal Description:

T41N, R30W, Sections 9, 16, 17, 20, 21

Identified Planning Goals:

Improve Northern Hardwoods, Aspen, lowland types and grass openings.

Soil and topography:

Moderately well drained soils on rolling hills to poorly drained soils in lowlands.

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

State lands surrounded by private ownership's, residences.

Unique Natural Features:

Granite bluffs throughout the compartment.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Badwater Creek is within this compartment. 100 foot buffers needed. For all other riparian areas, including vernal pools and intermittent streams, BMPs should be followed to maintain canopy cover and prevent erosion into waterbodies.

Wildlife Habitat Considerations:

Featured species include American woodcock, black bear, northern goshawk, ruffed grouse, and white-tailed deer. The steep terrain creates many hills and valleys, supporting great habitat for black bear and deer. The compartment is made up of state game lands as well.

Mineral Resource and Development Concerns and/or Restrictions

A gravel pit is located one mile to the south and there may be some sand and gravel potential within the compartment. The former Groveland iron mine is located approximately four miles to the northeast. There does not appear to be any iron ore potential within the compartment. On the outer margins of the compartment, along fault zones, there may be potential for other metallic minerals. A portion of this compartment was leased more than 30 years ago. There is no economic oil and gas production in the UP.

Vehicle Access:

Good through State from the east and south and private from the north.

Survey Needs:

No survey needs required at this time, all corners along perimeter are installed.

Recreational Facilities and Opportunities:

Popular local hunting area.

Fire Protection:

Minimal fire risk due to large hardwood component in this compartment.

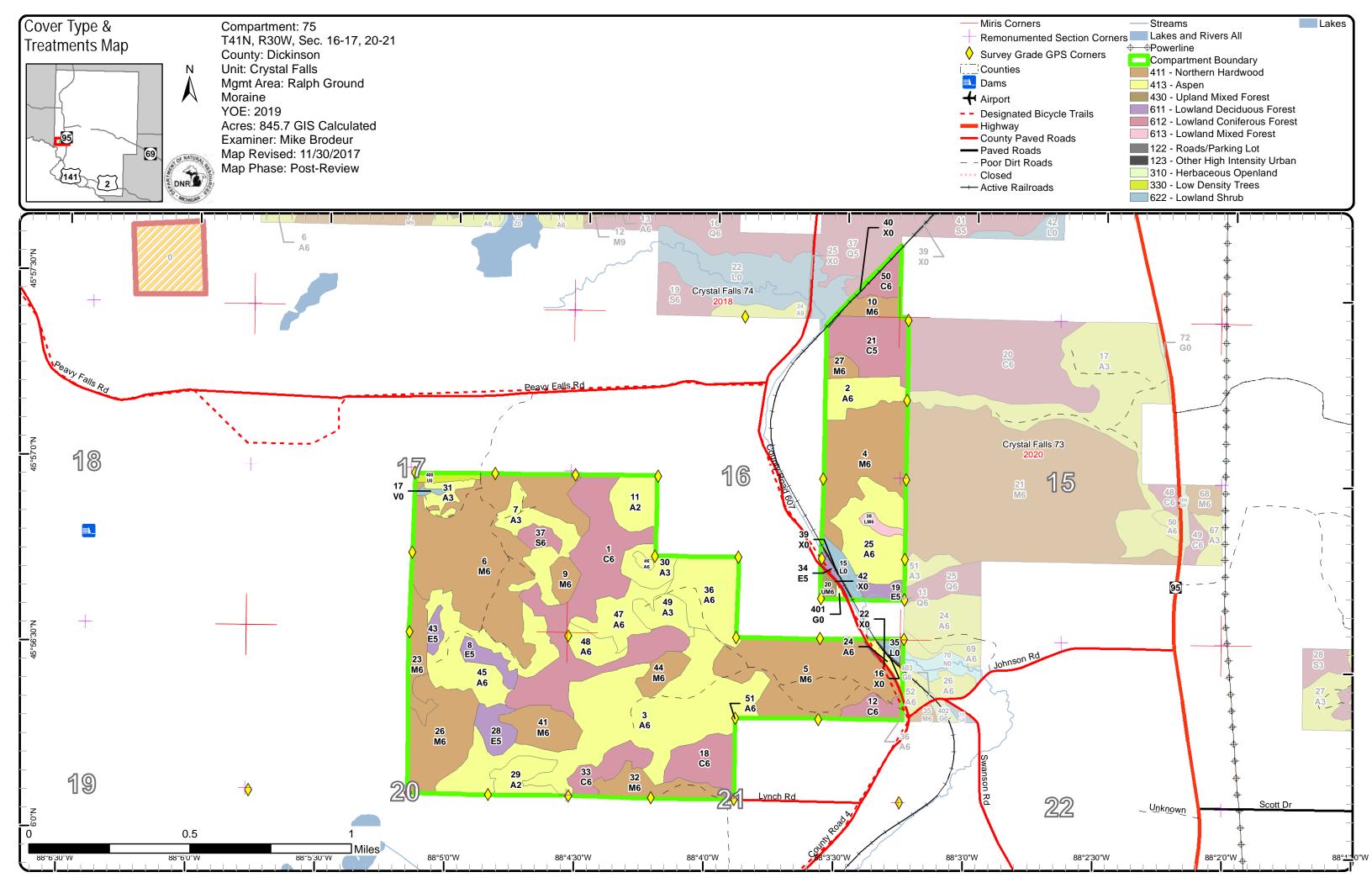
Additional Compartment Information:

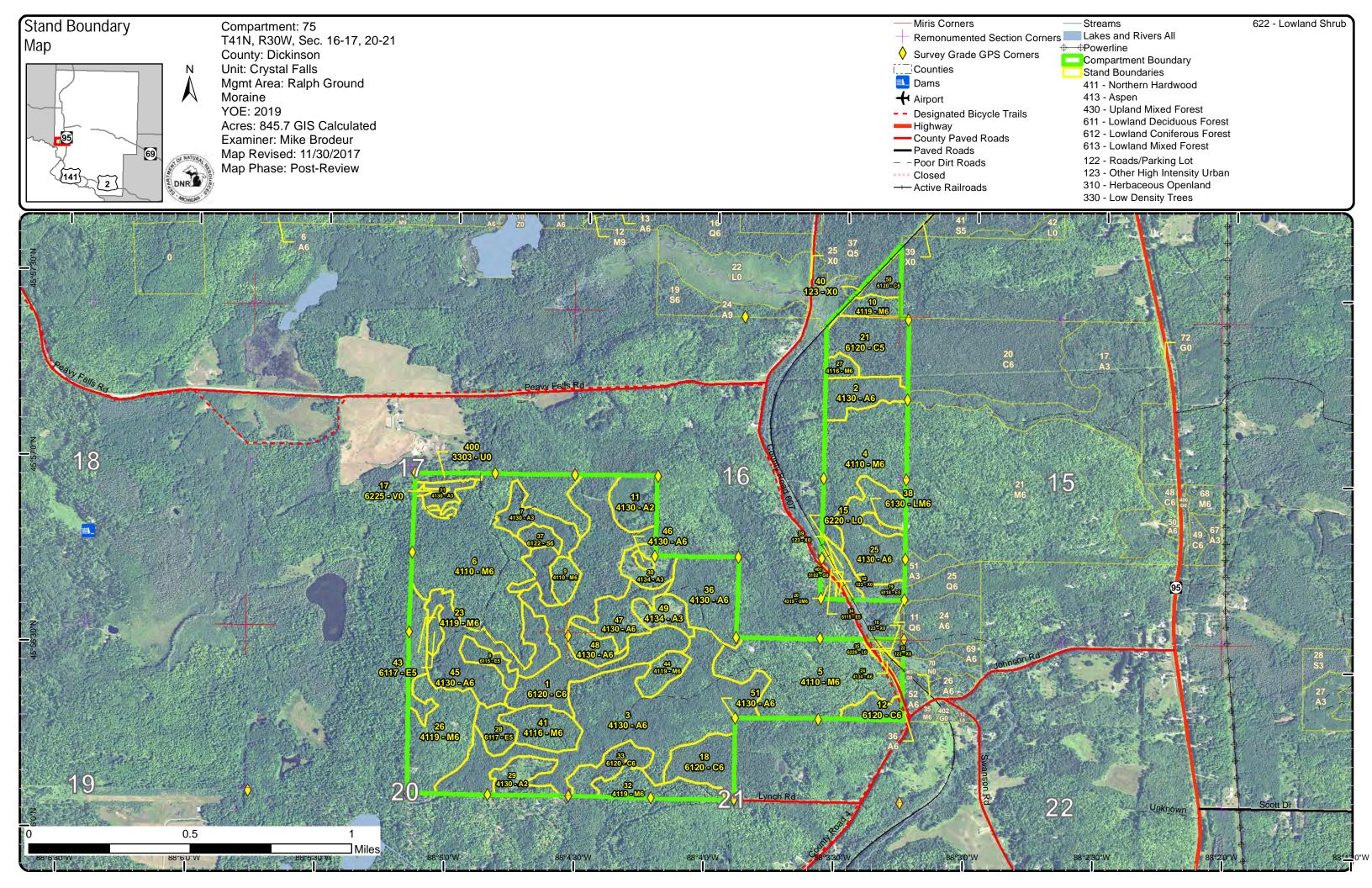
The following reports from the Inventory are attached:

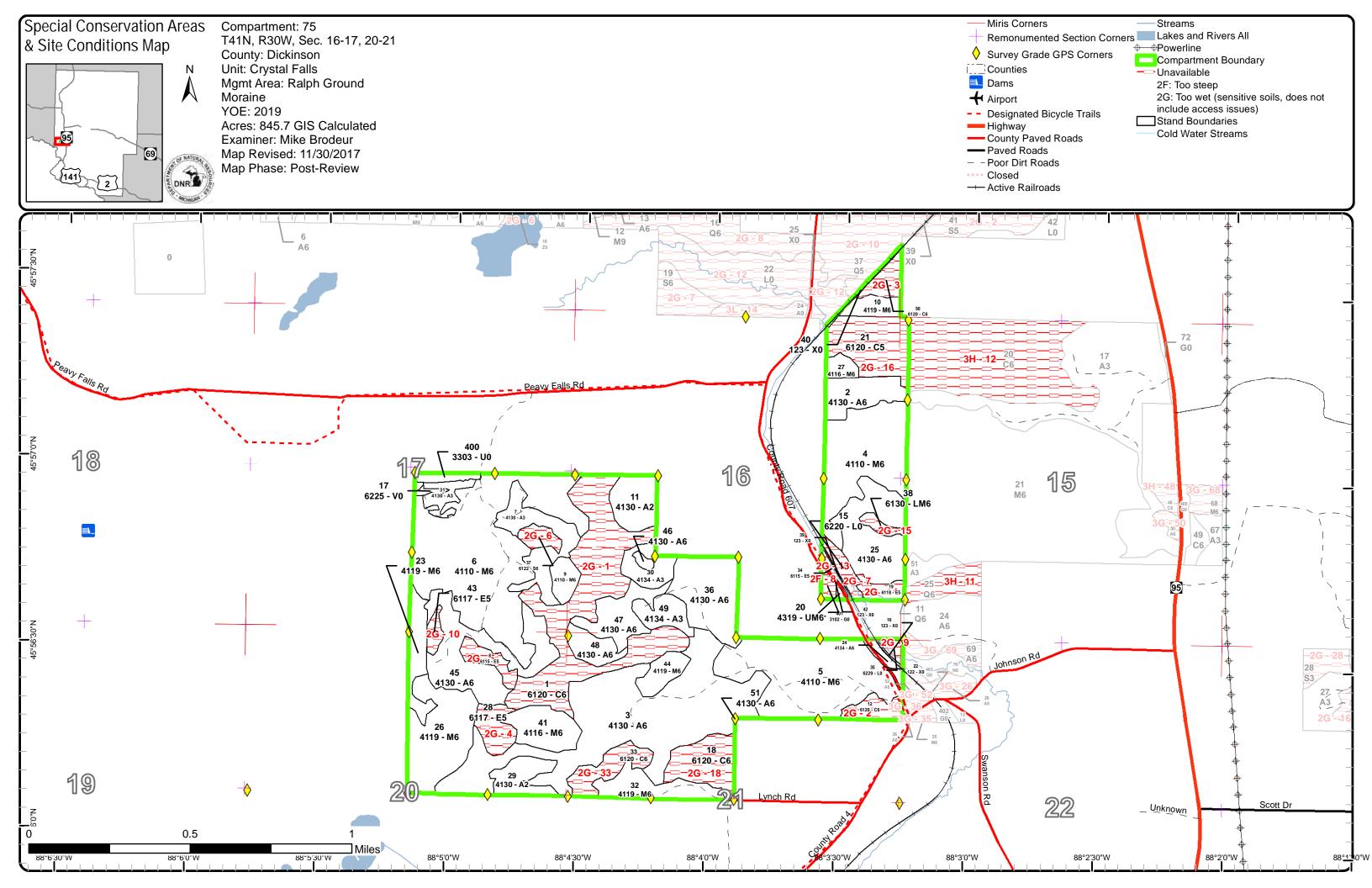
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

Mike Brodeur : Examiner

Compartment 75 Year of Entry 2019



Age Class

	No.	A STATE OF THE PROPERTY OF THE	\$ / 4	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		8. 20°	, % /%		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	80.00	8 /0/	70,	81, K	\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N. S.	St Just	Se S
Aspen	0	45	0	66	167	47	0	0	0	0	3	0	0	0	0	0	0	0	328
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	7	7	135	0	0	0	0	0	0	0	148
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	25
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	0	0	6	11	12	0	0	0	0	0	0	288	317
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	18	45	0	66	167	47	0	0	13	18	183	0	0	0	0	0	0	290	846



Report 2 – Treatment Summary

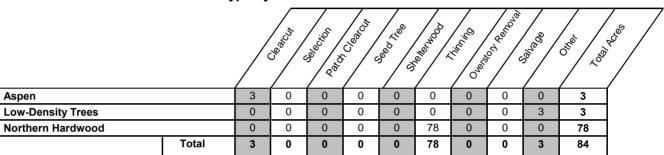
Crystal Falls Mgt. Unit Year of Entry: 2019

Acres of Harvest

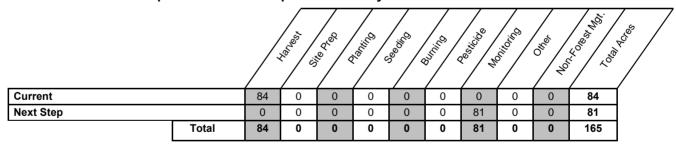
Compartment 75
Total Compartment Acres: 846

Commercial Harvest - 84 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood mix of sugar maple, basswood, white ash and hemlock. Regen:

Other Comment:

Proposed Start Date: 10/01/2018

12.2 94 Crown Thinning 411 - Northern 12075023-Cut 4119 - Mixed Poletimber 111-Harvest Uneven-Proposal -Northern Hardwoods Well 140 Approval Hardwood Aged Pending Edits

Habitat Cut: No **Site Condition:**

Prescription This stand is to be thinned to a residual basal area of 70 - 90 ft/2 per acre. Cut all aspen. Do not cut any hemlock, elm, black ash, red oak, white Specs: pine or cedar. Exclude any drains. This thinning will release the crowns of future crop trees and concentrate growth on higher quality residual

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Northern hardwood mix of sugar maple, basswood, white ash and red oak,

Regen:

Other Comment:

10/01/2018 **Proposed Start Date:**

12075024-Cut 2.7 4134 - Aspen, Poletimber 94 81-110 Harvest Clearcut with 413 - Aspen Proposal -Even-Aged Spruce/Fir Well Retention Approval Pending Edits

Habitat Cut: No Site Condition:

Prescription Cut all trees with one or more pulpwood sticks. Do not cut red and white pine, cedar, hemlock or oak. Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Mix of aspen, spruce, balsam and hardwood.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

12075026-Cut 35.6 4119 - Mixed Poletimber 91 81-110 Harvest Crown Thinning 411 - Northern Uneven-Proposal -Northern Hardwoods Well Hardwood Approval Aged Pending Edits

Habitat Cut: No Site Condition:

Prescription This stand is to be thinned to a residual basal area of 70 - 90 ft/2 per acre. Cut all aspen. Do not cut any hemlock, red oak, white pine or cedar.

Exclude any drains. This thinning will release the crowns of future crop trees and concentrate growth on higher quality residual stems. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood mix of sugar maple, basswood, white ash and red oak.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018 Crystal Falls Mgt. Unit

Report 3 -- Treatments

Compartment: 75 Year of Entry: 2019

а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** n Objective Name CoverType Density Age Range Type Method Structure **Status** d 12075041-Cut 16.0 4116 - Mixed N. Poletimber 91 81-110 Crown Thinning 411 - Northern Uneven-41 Harvest Proposal -Hardwood - Aspen Well Hardwood Aged Approval Pending Edits

Habitat Cut: No Site Condition:

Prescription This stand is to be thinned to a residual basal area of 70 - 90 ft^2 per acre. Cut all aspen. Do not cut hemlock, red oak, white pine or cedar. This Specs:

thinning will release the crowns of future crop trees and concentrate growth on higher quality residual stems.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood mix of sugar maple, basswood and white ash.

Regen:

s

t

Other Comment:

10/01/2018 **Proposed Start Date:**

91 12075044-Cut 8.2 4119 - Mixed Poletimber 111-Crown Thinning 411 - Northern Uneven-Proposal -Harvest Northern Hardwoods Well 140 Hardwood Aged Approval Pending Edits

Habitat Cut: No Site Condition:

Prescription This stand is to be thinned to a residual basal area of 70 - 90 ft/2 per acre. Cut all aspen. Do not cut any hemlock, red oak, white pine or cedar.

Specs: This thinning will release the crowns of future crop trees and concentrate growth on higher quality residual stems.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood mix of sugar maple, basswood and white ash.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

400 12075400-Cut 3.3 3303 - Mixed Low Unspec 310 -Nonstocked Harvest Other - Specify Proposal -**Density Trees** ified Herbaceous Approval Openland Pending Edits

Habitat Cut: No Site Condition:

Prescription Return forested opening to non forested conditions. Cut all trees 2" and above. Do not cut aspen, to prevent aspen sprouts. Specs:

Next Step

Treatments:

Acceptable Return to open area.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed:

84.2

Crystal Falls Mgt. Unit

Mike Brodeur : Examiner

Compartment: 75
Year of Entry: 2019

Availa	ability for	Managemen	ıt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	Con	ditions
Acres	Available	With Condition	Not Available		2F	2G	3G	3Н
328	328	0	0	Aspen		0	0	
1	1	0	0	Bog				
149	0	0	149	Cedar		149		0
1	1	0	0	Herbaceous Openland				
3	3	0	0	Low-Density Trees				
25	0	0	25	Lowland Deciduous		25		0
3	0	0	3	Lowland Mixed Forest		3		
8	0	0	8	Lowland Shrub		8	0	
5	0	0	5	Lowland Spruce/Fir		5		
317	317	0	0	Northern Hardwood		0		
2	0	0	2	Upland Mixed Forest	2			
5	5	0	0	Urban			0	
846	654		192	Total Forested Acres	2	190	0	0
	77%		23%	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)	77	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Mike Brodeur : Examiner

8	Unavailable	2F: Too steep	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	12	1C: Other dept or div proc/practices	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
	Comments:						
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	81	1C: Other dept or div proc/practices	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Crystal Falls Mgt. Unit Mike Brodeur : Examiner

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
C	comments:						
	17.4.00.57 DM . Daws						00000

Report 4 - Site Conditions

Crystal Falls Mgt. Unit Mike Brodeur : Examiner Compartment: 75 Year of Entry: 2019

33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
С	omments:						

11/30/2017 1:33:57 PM - Page 5 of 5

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: 75
Year of Entry 2019



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

Conservation Area	Туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other coldw year to year. Coldwater streams in Michigan typica	Such streams are established by Director's action and

S t	Crystal Falls Mgt. Unit			Report 7	Forested	Stands Compartment: 75 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Well	77.4	94	141-170	OPIC - FMD: Areas of black ash and tag alder (2007). Very wet, standing water, dense cedar. Plenty of black ash saps along edges and in pockets throughout. Thick pockets of tag alder throughout.
2	4130 - Aspen	Poletimber Well	15.5	40	111-140	OPIC - FMD: OI Stand Year Origin was 1977. Q aspen to the west side of stand is upland mix, poles. Northeast side of stand is wet with avg DBH of 4" Q aspen. There is a cedar/B ash drain in this stand.
3	4130 - Aspen	Poletimber Well	111.8	37	111-140	OPIC - FMD: F and Q inclusions. (2007)
4	4110 - Sugar Maple Association	Poletimber Well	46.8	91	81-110	OPIC - FMD: MUCH A3 ON WEST SIDE. SOME OAK. GOOD MAPLE REPRODUCTION.(1997) Highly varied stand. Hilly. Small E inclusions. Some F type in understory. Unmarked hardwood will meet retention goals.Follow up with regeneration check. (2007) Harvested 2012 with "3 of 3" sale #12-016-09-01.
5	4110 - Sugar Maple Association	Poletimber Well	65.4	91	81-110	OPIC - FMD: 2 of 3 TS cut 2013. Slash throughout stand.
6	4110 - Sugar Maple Association	Poletimber Well	99.8	91	81-110	OPIC - FMD: MUCH DOWNED WOOD. ASPEN IN SCATTERED PATCHES. NICE BASSWOOD.(1997) Highly varied stand (terrain, poles v logs, species mixture). Unmarked hardwood will meet retention goals. Follow up with regeneration check.(2007) Harvested 2012 with "1 of 3" sale #12-014-09-01. Rolling terrain, good woods roads running throughout stand.
7	4130 - Aspen	Sapling Well	20.9	28	Immature	OPIC - FMD: ASPEN REGENERATION POOR ON MUCH OF STAND, MUCH GRASS AND BERRIES. (1997). Mostly upland with small low, wet areas. North canopy closure around 75-100, south canopy closure around 50-75 due to open herbaceous areas.
8	6115 - Lowland Ash	Poletimber Medium	6.5	91	81-110	OPIC - FMD: OI Stand Year Origin was 1926. Wet, standing water with clumps of black ash surrounded by tag alder.
9	4110 - Sugar Maple Association	Poletimber Well	6.2	79	141-170	OPIC - FMD: OI Stand Year Origin was 1938. Good hardwood stand. Hemlock mixed in along east side, with a small hemlock stand on the south end.
10	4119 - Mixed Northern Hardwoods	Poletimber Well	6.5	88	81-110	Along rail road. R maple mix with oversized breaking up Q aspen.
11	4130 - Aspen	Sapling Medium	14.2	4	Immature	OPIC - FMD: 2 of 3 TS cut 2013: southeast corner only had birch and aspen removed. Rest of stand was clearcut. Southeast corner is sugar maple/white ash.
12	6120 - Lowland Cedar	Poletimber Well	7.3	77	171-200	OPIC - FMD: Transition zone from hardwood into Q type was included in this stand. W and B ash, yellow birch, hemlock in stand (2007) . Stand is wet and mucky. Quaking aspen is large pulp to oversized and breaking up. Deer browse.

S t	Crystal Falls Mgt. Unit			Report 7	- Forested	Stands Compartment: 75 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6120 - Lowland Cedar	Poletimber Well	18.6	94	201+	OPIC - FMD: OI Stand Year Origin was 1923. Stand is wet with standing water. Heavy black ash whips along edges of stand, lower density in interior of stand.
19	6118 - Lowland Deciduous with Cedar	Poletimber Medium	5.0	94	111-140	OPIC - FMD: WAS PART OF STAND 1.(1997) E inclusion.(2007) Lowland mix with solid alder along southern edge. Unable to locate SE corner monument.
20	4319 - Mixed Upland Forest	Poletimber Well	2.3	180	81-110	OPIC - FMD: WAS PART OF STAND 1.(1997) Aspen , F and hdwd along co rd. (2007). Significant slope from road to top of granite bluff. South end of stand is cedar swamp.
21	6120 - Lowland Cedar	Poletimber Medium	26.5	94	141-170	OPIC - FMD: WAS PART OF STAND 1.(1997) Retain thermal cover(2007).Wet, swampy stand, large areas alder with islands of cedar mix.
23	4119 - Mixed Northern Hardwoods	Poletimber Well	12.3	94	111-140	OPIC - FMD: WAS PART OF STAND 1.(1997). Southern end of stand is lowland hardwood mix, rest of stand is northern hardwood mix.
24	4134 - Aspen, Spruce/Fir	Poletimber Well	2.7	94	81-110	OPIC - FMD: WAS PART OF STAND 1.(1997) Small stand between Bass Lake road and rail road line. Travel and water influence zone.(2007).
25	4130 - Aspen	Poletimber Well	31.6	40	111-140	OPIC - FMD: WAS PART OF STAND 2(1997)
26	4119 - Mixed Northern Hardwoods	Poletimber Well	35.6	91	81-110	Rising terrain, from east to west. Granite bluffs along west side of stand.
27	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	4.1	87	81-110	OPIC - FMD: WAS PART OF STAND 13.(1997) Mostly maple with scattered aspen, spruce fir understory. (2007). Mix of hardwood, aspen, b fir. granite knob in middle of stand.
28	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	9.1	91	51-80	OPIC - FMD: WAS PART OF STAND 8.(1997). Wet saturated soils, standing water.
29	4130 - Aspen	Sapling Medium	11.3	4	Immature	OPIC - FMD: 2 of 3 TS cut 2013
30	4134 - Aspen, Spruce/Fir	Sapling Well	9.6	4	Immature	OPIC - FMD: 2 of 3 TS cut 2013
31	4130 - Aspen	Sapling Well	5.9	28	Immature	OPIC - FMD: OI Stand Year Origin was 1989
32	4119 - Mixed Northern Hardwoods	Poletimber Well	15.7	91	81-110	OPIC - FMD: 2 of 3 TS cut 2013. Oak in stand, rather hilly.
33	6120 - Lowland Cedar	Poletimber Well	12.1	94	141-170	OPIC - FMD: OI Stand Year Origin was 1923. Stand is wet with standing water.

S t	Crystal Falls	Mgt. Unit		Report 7	- Forested	Stands Compartment: 75 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	6115 - Lowland Ash	Poletimber Medium	1.5	94	81-110	OPIC - FMD: Between Bass Lk rd and creek. (2007). Standing water with b ash and alder.
36	4130 - Aspen	Poletimber Well	28.4	37	81-110	OPIC - FMD: OI Stand Year Origin was 1980. Upland to lowland, southwest to northeast. Pockets of bigtooth aspen mixed in, growing straight. Cedar/black ash along northern edge of stand. Small creek along northern edge of stand draining towards corner to the northeast.
37	6122 - Black Spruce	Poletimber Well	4.9	91	81-110	OPIC - FMD: OI Stand Year Origin was 1926. Wet, standing water.
38	6130 - Fir, Aspen, Maple	Poletimber Well	2.9	94	81-110	OPIC - FMD: OI Stand Year Origin was 1923. Spruce/fir mix with large, breaking up aspen.
41	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	16.0	91	81-110	OPIC - FMD: F and Q inclusions. (2007). Not a very good hardwood stand, sugar maple/basswood in the middle with quaking aspen along edges.
43	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	3.3	91	51-80	OPIC - FMD: OI Stand Year Origin was 1926. Wet, standing water, island of mixed trees asurronded by tag alder.
44	4119 - Mixed Northern Hardwoods	Poletimber Well	8.2	91	111-140	OPIC - FMD: OI Stand Year Origin was 555
45	4130 - Aspen	Poletimber Well	39.4	28	Immature	OPIC - FMD: OI Stand Year Origin was 1989
46	4130 - Aspen	Poletimber Well	1.4	37	81-110	OPIC - FMD: Was a portion of stand 30 divided out.(2007)
47	4130 - Aspen	Poletimber Well	16.4	30	111-140	Mix of aspen and hardwood, original stand was divided up for age class distribution.
48	4130 - Aspen	Poletimber Well	9.0	30	111-140	Mix of aspen and hardwood, original stand was divided up for age class distribution.
49	4134 - Aspen, Spruce/Fir	Sapling Well	9.4	4	Immature	OPIC - FMD: 2 of 3 TS cut 2013.
50	6120 - Lowland Cedar	Poletimber Well	6.7	88	141-170	along rail road

4130 - Aspen

51

Poletimber Well

0.0

37

111-140

OPIC - FMD: F and Q inclusions. (2007)



Stand	Cover Type	Acres	Managed Site	General Comments:
15	6220 - Alder/willow	5.4	No	OPIC - FMD: OI Stand Year Origin was Standing water, heavy tag alder with islands of b spruce and q aspen.
16	123 - Other High Intensity Urban	0.5	No	Railroad
17	6225 - Bog	1.1	No	OPIC - FMD: OI Stand Year Origin was
22	122 - Road/Parking Lot	1.1	No	OPIC - FMD: OI Stand Year Origin was
35	6229 - Mixed lowland shrub	2.5	No	OPIC - FMD: OI Stand Year Origin was Alder lowland with cedar, b spruce, w spruce and r maple along north and east edge of stand and islands.
39	123 - Other High Intensity Urban	0.7	No	Railroad
40	123 - Other High Intensity Urban	1.7	No	OPIC - FMD: RR, NENE sec 16. (2007). Railroad grade.
42	123 - Other High Intensity Urban	0.7	No	OPIC - FMD: Between Bass Lk rd and creek. (2007). Standing water with b ash and alder.
400	3303 - Mixed Low Density Trees	3.3	Yes	OPIC - FMD: OI Stand Year Origin was Grass opening that is disappearing due to infiltration of white spruce, black spruce, sugar maple, quaking aspen, tamarack, balsam fir and paper birch. Clear cut to return to grass opening. Possible candidate for post harvest burn to promote grassland.
401	3102 - Grass	0.6	No	OPIC - FMD: OI Stand Year Origin was