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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
1	A3	A3	101	23	3	0	59	aspen (upland)	immature	N		30-39 years	0	
Wld :														
2	F6	X0	2	90	8	110	60	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : Old and falling. Clear cut with stand #4 retaining pine.Spruce/fir acceptable alternative MO(2009)														
3	Q6	F1	23	45	9	130	41	mixed swamp conifer	immature	N		not scheduled	0	
4	A9	F2	59	90	12	90	60	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Aspen down in north part of stand. Much F reproduction. Cut no pine. Upland spruce/fir or white pine acceptable alternative MO(2009)														
Wld : Leave Oak and Hemlock if present for mast and mesic conifer enhancement of stand. Widely spaced canopy aspen and birch. Large diameter nest trees leave amongst pine and/or other species retained for diversity, where they will be part of a forested stand.														
5	A3	A3	22	5	1	0	67	aspen (upland)	immature	N		50-59 years	0	
6	M9	M1	80		10	100	78	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : FDF STAND CUT 1997														
7	A3	A3	2	15	2	0	60	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : was part of old stand #8. cut 1994														
8	W6	A2	87	81	9	90	55	white pine	immature	N		20-29 years	0	
comnts Fmd : Aspen removed from stand in 1994. now largely A3 with red and white pine scattered throughout.														
9	A3	A3	8	18	2	0	61	aspen (upland)	immature	N		30-39 years	0	
10	B6	U1	8	92	10	130	55	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Regeneration technology inadequate														
Delayed treatment for age/size class diversity														
comnts Fmd : Aspen poor, birch nice. Clear cut retaining pine. Upland spruce/fir or white pine acceptable alternative MO.(2008)														
Wld : Leave pine and scarify during harvest to promote pine. Occassional Aspen/Birch Nest trees left among Pine.														
11	A3	A3	3	15	3	0	60	aspen (upland)	immature	N		40-49 years	0	
12	A3	A3	2	8	1	0	55	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : A3 stand appears to be less than 10 years old. No record of cut.(2009)														

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13	A 3	U 2	36	29	4	0	60	aspen (upland)	immature	N		20-29 years	0	
14	F 5	A 3	27	18	6	50	50	spruce-fir (uplands-including upland black spruce)	immature	N		40-49 years	0	
comnts Fmd : ASPEN REMOVED IN 1991. OVERSTORY PRIMARILY SPRUCE FIR WITH SOME PINE. VERY GOOD SPRUCE FIR REGENERATION WITH A3 IN SPOTS.														
15	A 6	F 1	33	69	9	140	60	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : Cut no pine. Protect snowmobile trail. Mark out wet area on south end of stand. Spruce/ fir acceptable alternative MO.(2009)														
Wld : Leave any hemlock or oak for wildlife cover, travel and mast production. Leave occassional large diameter structurally apt aspen/birch trees in and amongst the WP and RP to provide nesting trees for raptors and cavity nesters while still part of the forested inclusion. Wet balsam, spruce, fir, wpine inclusion between road and powerline along ORV trail should be marked out for protection.														
16	A 3	A 3	38	18	2	0	50	aspen (upland)	immature	N		30-39 years	0	
17	A 6	F 2	26	69	7	90	60	aspen (upland)	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity Delayed to take advantage of exceptional site quality or growth Scenic values/visual values Influence zones														
comnts Fmd : Much white pine and spruce/fir along with young aspen. Aspen along road larger and in poorer condition. Hold stand another 10 years to allow F type to grow then harvest larger F and aspen. (2009)														
18	Q 6	Q 3	63	97	8	80	42	mixed swamp conifer	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Regeneration technology inadequate Too wet														
19	F 6	F 3	25	49	6	90	55	spruce-fir (uplands-including upland black spruce)	immature	N		10-19 years	0	
20	B 6	F 2	14	69	7	150	58	paper birch	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity Delayed to take advantage of exceptional site quality or growth														
comnts Fmd : MUCH F TYPE IN UNDERSTORY. BIRCH HOLDING WELL.(2009)														
21	L 0	L 2	28	99	0	0	20	lowland brush	nonstocked	N		not scheduled	0	
22	R 6	F 2	7	51	11	160	60	red pine	immature	N		10-19 years	0	
comnts Fmd : HILLY AREA NEAR SKI TRAIL PARKING LOT. HOLD 10 YEARS FOR GROWTH OF f TYPE(2008)														

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					B	Tot. BA	Site Indx							
23	A6	F2	9	51	8	70	50	aspen (upland)	immature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Recreational site</p> <p>comnts Fmd : AREA INCLUDES SKI TRAIL PARKING LOT. STAND IS MATURE ASPEN WITH A SPRUCE FIR UNDERSTORY. HOLDING UP WELL. NO NEED FOR CUT AT THIS TIME. (2009)</p>														
24	M9	U1	207		12	80	76	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : STAND CUT2005..GUN BARRELS</p> <p>Wld : Potential underplanting of WP and/or Hemlock to promote mesic conifer.</p>														
25	A5	A3	9	27	5	60	60	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : OAK IN STAND</p>														
26	A3	F1	51	19	2	0	67	aspen (upland)	immature	N		30-39 years	0	
<p>27 B6 F2 40 74 8 140 58 white pine mature Y final harvest within 0-9 years 1</p> <p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity Blocked by other physical obstacle</p> <p>comnts Fmd : Retain hemlock,cedar and pine. Line out areas of heavy hemlock and cedar. Clearcut remainder except portion in center of stand high to nicer hardwood. Make a unit and remove aspen, birch, possibly some red maple from this area. Aspen/F acceptable alternative MO if pine reproduction not adequet.(2009)</p> <p>Wld : MO for Hemlock and White Pine is desirable, heavy to Hemlock both large diameter and small diameter in many places, protect all hemlock, cedar and white pine and promote both by scarifying during timber sale. Mark out hemlock stands, and work in aspen/birch portions of the stand. An area of the stand is a good hardwood stand and unit will be managed as such, retaining hemlock in stand. Rock outcrops are unique and areas of thin soils and sparse vegetation should be protected, this area should be included in ERA or designated (Cliff brakes, woodsia, fern present on rock outcrops. This stand follows Mitchell Creek and is a wildlife travel corridor and deeryarding area.</p>														
28	R6	H2	4	79	9	110	50	red pine	immature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too steep</p> <p>comnts Fmd : MANAGE FOR OLD GROWTH VERY STEEP ROCKBLUFFS, THERMAL COVER.</p>														
29	Z0	Z0	6		0	0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : LOST LAKE.</p>														
30	A3	A3	12	5	0	0	55	aspen (upland)	immature	N		50-59 years	0	
<p>comnts Fmd : Cut as White Bark Hardwood Mix ,sale # 010101.</p>														
31	A6	F3	8	29	8	130	55	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : South end in poorer condition than rest of stand. Re-examine in 10 years.(2009)</p>														
32	R9	F1	6	81	14	120	55	red pine	immature	N		10-19 years	0	

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					B	Tot. BA								
33	A3	F3	5	15	1	10	60	aspen (upland)	immature	N		30-39 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity Scenic values/visual values comnts Fmd : AREA ALONG ROAD NEAR GRAVEL PIT. SOME ASPEN REMOVED IN 1994.														
34	W6	F2	18	49	6	110	60	white pine	immature	N		50-59 years	0	
35	A6	F3	1	69	8	120	60	spruce-fir (uplands-including upland black spruce)	mature	Y	final harvest	within 0-9 years	1	
<u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments) Regeneration technology inadequate comnts Fmd : AREA ALONG ROAD FRONTING GRAVEL PIT. REMOVE OLD ASPEN FOR SAFETY ALONG ROAD. HOLD CONIFER. Aspen acceptable alt. MO.(2009)														
36	Q6	Q3	78	105	9	100	41	mixed swamp conifer	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Regeneration technology inadequate Other special wildlife habitat consideration (desc. In comments) comnts Fmd : Hold for wildlife corridor/ water quality. (2008)														
37	M6	M1	23		10	100	55	northern hardwood	unevenaged	N		10-19 years	0	
38	A3	A2	22	15	2	40	60	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Aspen removed from stand in 1994. now largely A3 with red and white pine scattered throughout.(2009)														
39	A3	F1	15	19	2	0	67	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : CUT IN 1990														
40	R6	H2	2	79	9	110	50	red pine	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too steep comnts Fmd : MANAGE FOR OLD GROWTH VERY STEEP ROCKBLUFFS, THERMAL COVER.														
41	Q6	Q3	56	105	6	90	41	mixed swamp conifer	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments) Other special wildlife habitat consideration (desc. In comments) Regeneration technology inadequate comnts Fmd : CEDAR,BLACK SPRUCE,AND MUCH NICE TAMARACK. Hold for wildlife considerations(thermal cover, winter food source) and water quality. (2008)														
43	W6	A2	89	49	6	110	60	white pine	immature	N		50-59 years	0	
comnts Fmd : Aspen removed in 2004. (2008)														

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44	X 0	X 0	5			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : GRAVEL PIT.														
45	F 6	F 1	7	90	8	110	60	spruce-fir (uplands-including upland black spruce)	mature	Y	final harvest	within 0-9 years	1	
<u>Treatment Limiting Factors:</u> Scenic values/visual values Neighbor														
comnts Fmd : FALLING. MAY CUT PORTION ALONG ROAD TO IMPROVE ACCESS TO STAND # 4. NO CUTTING WILL BE DONE DOWN SLOPE TO RIVER. ASPEN ACCEPTABLE ALT. MO.(2009)														
Wld : Cut along top of slope as transition down to river should be left intact, includes cedar,black ash and hemlock stands including seeps/drainage to the lowland along river corridor.Spruce and fir regen is thick in places where Aspen, Spruce and Fir have already fallen out.														
46	R 9	F 1	3	81	14	120	55	red pine	immature	N		10-19 years	0	
47	W 6	W 1	5	90	10	180	60	white pine	immature	Y	selection	within 0-9 years	1	
comnts Fmd : OLDER WHITE PINE POOR, LARGE ASPEN FALLING, SOME YOUNGER ASPEN IN PATCHES AROUND FALLEN ASPEN. MARK POOR WHITE PINE LEAVING SOME OF THE LARGEST TREES FOR WILDLIFE, CUT MERCHANTABLE HARDWOOD, ASPEN AND BIRCH. LEAVE OAK.ADVANCED PINE REGENERATION PRESENT(2009)														
Wld : Keep Lg Diameter WP removing some of the smaller diameter "Poor" trees. Leave high canopy closure and understory conifer, as this is deeryard. Area wants to be WP and regen is present. Scattered oak present holdd as mast production for Wildlife.Rock outcrop should be left unharvested, thin, shallow soils. Yew present. Leave occassional large diameter Aspen or Birch as nest trees, cavity trees.														
48	A 3	F 1	3	19	2	0	67	aspen (upland)	immature	N		30-39 years	0	
49	E 4	L 0	2	59	5	40	50	swamp hardwoods	immature	N		not scheduled	0	
comnts Fmd : small pocket of lowland hardwood(2009)														
50	B 6	F 2	18	69	7	150	58	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
comnts Fmd : CLEAR CUT RETAINING CEDAR INCLUSIONS. SPRUCE/FIR ACCEPTABLE ALT. MO. (2009)														
Wld : Protect the cedar throughout the upland and transition and mark out cedar inclusions as opposed to single scattered trees, leaving aspen and birch trees of sufficient size and structure to provide both nesting opportunities for raptors and cavity nesters, within the cedar inclusions.														
51	F 5	F 3	5	105	6	70	41	spruce-fir (uplands-including upland black spruce)	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Influence zones														
comnts Fmd : SMALL AREA BORDERING LOST LAKE. (2009)														
52	T 5	T 1	13	97	8	60	42	tamarack	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Influence zones Water quality/bmps														
comnts Fmd : MITCHELL CREEK RUNS THROUGH CENTER(2009)														

CRYSTAL FALLS FOREST MGT UNIT

Stand Level Information

Compartment: 80

Entry Year: 2011

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53	W5	F3	8	49	6	50	60	white pine	immature	N		50-59 years	0	
400	G0	G0	2			0	60	grass	nonstocked	N		not scheduled	0	opening maintenance
401	G0	G0	1			0	60	grass	nonstocked	N		not scheduled	0	opening maintenance
402	G0	G0	1			0	60	grass	nonstocked	N		not scheduled	0	opening maintenance
403	G0	G0	15		0	0		grass	nonstocked	N		not scheduled	0	opening maintenance
comnts Fmd : POWERLINE														
404	G0	G0	1		0	0		grass	nonstocked	N		not scheduled	0	opening maintenance
405	G0	G0	2		0	0		grass	nonstocked	N		not scheduled	0	opening maintenance

Total Acres..... 1446