

* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acres	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA								
1	L0	G0	10		0	0		lowland brush	nonstocked	N		not scheduled	0	
2	Q6	S1	69	96	8	190	55	mixed swamp conifer	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
3	A5	U0	28	26	6	60	65	aspen (upland)	immature	N		20-29 years	0	
4	R9	S1	4	56	12	160	65	red pine	two aged	N		10-19 years	0	
5	Q5	F2	21	86	8	70	45	mixed swamp conifer	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Other special wildlife habitat consideration (desc. In comments)														
Too wet														
comnts Fmd : This stand is not be scheduled for harvest.														
6	M6	M1	13	79	9	130	47	northern hardwood	two aged	Y	selection	within 0-9 years	1	planting
comnts Fmd : In general this is a poor quality hardwood stand. There are lots of doubles, frost cracks, and old branch stubs. This stand will be cut using the group selection method, and managed as even age . Gaps will be planted with oak and mesic conifer tree species. Gaps should be 40-50 feet from crown to crown and acorns planted 2-inches deep. Leave all spruce and balsam. Mesic conifer (white pine and hemlock) regeneration is an acceptable alternative species to northern hardwoods.														
7	R6	A1	42		10	80	60	red pine	two aged	N		10-19 years	0	
comnts Fmd : This stand had the aspen, birch, and hardwood removed from it at last entry. There are large red pine mixed with pole to small log size red pine and some areas of red pine seedlings and saplings.														
8	M9	M1	63	71	10	100	50	northern hardwood	two aged	N	thinning	within 0-9 years	1	planting
comnts Fmd : There are spots of really good regeneration in this stand where there is full sunlight reaching the forest floor, though it is browsed. Create gaps where old culls exist, leaving some for diameter distribution and wildlife snags. Where the pocket of white birch exists remove dieing and overtopped birch to recruit hardwood regen that is present. This stand should be thinned to 70 ft^2 to aid in promoting regeneration. To move toward a balanced diameter distribution, concentrate the removal of stems in the 6,8, and 12 " diameter class. Stray away from removal of trees in the 10 and 14" dbh class. Leave all white pine, white spruce, and balsam. This stand is a good candidate for a white pine underplanting. There are remnant white pine stumps in the landscape surrounding this stand, and the soils do lend to white pine. If white pine are planted, they should be planted in gaps or lower density areas. This will allow them to receive more sunlight and have more growing space.														
9	A3	U0	25	22	3	0	60	aspen (upland)	immature	N		30-39 years	0	
10	A3	F1	62	6	1	0	60	aspen (upland)	immature	N		50-59 years	0	
11	M6	M1	22	79	10	90	50	northern hardwood	two aged	N		10-19 years	0	
comnts Fmd : FDF														

Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acres	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							
12	A6	U0	218	31	6	90	70	aspen (upland)	immature	N		20-29 years	0	
13	A6	F1	37	71	11	100	55	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : There are several small rocky openings, some too small to map. Cut all trees regardless of species and merchantability. There are also a lot of wet areas in this stand and a spring creek in the northwest end of the stand that should be buffered within the guidelines of BMP's. This stand should be winter cut. Access to this stand for harvesting is through stand 22.														
14	A3	F2	138	15	3	0	60	aspen (upland)	immature	N		40-49 years	0	
15	M6	M1	21		10	90	60	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : FDF														
16	A3	U0	32	5	1	0	55	aspen (upland)	immature	N		50-59 years	0	
17	A6	F1	33	71	10	90	55	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : Cut all trees regardless of species and merchantability. This stand should be winter cut due to wet areas within the stand. Access to this stand for harvesting is off the road.														
18	R6	G0	5	41	10	150	55	red pine	immature	N	thinning	within 0-9 years	1	
comnts Fmd : Remove every third row starting with the third row in from the western edge of the stand.														
19	A3	U0	63	17	2	0	60	aspen (upland)	immature	N		40-49 years	0	
20	Q6	E2	23	81	8	90	45	mixed swamp conifer	immature	Y		10-19 years	0	
Treatment Limiting Factors: Too wet														
comnts Fmd : Very wet site. Lots of black ash seedlings and saplings. Tamarack is dieing (possibly from porcupine or water).														
21	A5	U0	19	45	8	60	60	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : Intermittent spring creek in southwest part of stand on south facing slope running toward Ford River.														
22	A3	F1	83	16	3	0	60	aspen (upland)	immature	N		40-49 years	0	
23	A3	F1	48	16	1	0	55	aspen (upland)	immature	N		40-49 years	0	
24	Q5	U0	19	81	8	60	45	mixed swamp conifer	immature	Y		10-19 years	0	
Treatment Limiting Factors: Water quality/bmps Too wet														
comnts Fmd : This stand borders the north side of the Ford River. It is providing a buffer to the river and large woody debris.														

CRYSTAL FALLS FOREST MGT UNIT

Stand Level Information

Compartment: 43

Entry Year: 2007

Stand	Cover Type-Dnsty	Under Story-Stkng Level	A c r e s	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA	Site Indx							
25	Q6	F1	46	77	10	140	45	mixed swamp conifer	mature	N		10-19 years	0	
comnts Fmd : Most of the balsam poplar and white birch have died from the standing water. This stand provides a good buffer along the river. There is lots of balsam comint up where the balm is dieing out. There are a few spots where white birch saplings are growing too.														
26	A3	U0	7	5	1	0	60	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : Scattered spruce/fir.														
27	A6	F1	4	32	8	90	60	aspen (upland)	immature	N		20-29 years	0	
28	A6	F1	8	71	11	100	55	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : Cut all trees greater than 2" at the stump regardless of species.														
29	Q6	F1	18	81	10	100	45	mixed swamp conifer	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Cedar or Hemlock cutting restraints														
comnts Fmd : There is a free flowing creek in this stand.														
30	M6	M1	18	83	10	140	50	northern hardwood	two aged	Y	thinning	within 0-9 years	2	
comnts Fmd : This stand was harvested at last entry but the furthest west portion was not cut. The residual in the thinned portion is high enough in spots to justify thinning again. Concentrate removal in the 6-8" dbh classes.														
31	A4	F2	11	57	6	30	45	aspen (upland)	immature	Y		30-39 years	0	
<u>Treatment Limiting Factors:</u> Inadequate volume due to low stocking/small diameter/etc.														
comnts Fmd : This is a sparse stunted aspen stand mixed with black spruce. Soil aeration is the limiting factor in the productivity of this stand. The soil is of the Carbondale and Cathro muck series which is subject to ponding.														
32	R5	A3	7	31	6	60	50	red pine	immature	N		20-29 years	0	
comnts Fmd : This stand is a small area of plantation pine that had the aspen removed from it when the stand to the north was clearcut. The understory is now A3 and will most likely recruit into the overstory where the pine is less dense.														
33	R3	G0	5	15	2	0	60	red pine	immature	N		20-29 years	0	
comnts Fmd : This stand was planted by the state but the farmer to the south disked the trees. The stand was then replanted by the state at the farmers expense. There are no FTP records in the Compartment folder.														
34	M9	M1	18	83	12	150	50	northern hardwood	two aged	Y	thinning	within 0-9 years	1	
<u>Treatment Limiting Factors:</u> Land survey needed														
comnts Fmd : This is a small hardwood stand between a large aspen stand to the north and private land to the south. Thin to 80ft^2 residual basal area. Favor the higher quality stems. Concentrate removal in the 6-12" dbh classes. This will help to convert the stand from even age to uneven age and bring it under regulation.														
35	M9	M1	19		11	90	55	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : There are areas in this stand with higher basal area (>100) that could be thinned, but the average is just over 90 ft^2. Waiting 10 years will give us another stand in this compartment to treat.														
36	M6	M1	12	83	10	110	50	northern hardwood	two aged	N		10-19 years	0	

* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand ID	Cover Type-Dnsty	Under Story-Stkng Level	Age	A c r e s	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA								
37	M9	M1	24		11	120	50	northern hardwood	two aged	Y	thinning	within 0-9 years	1	
<p><u>Treatment Limiting Factors:</u> Land survey needed</p> <p>comnts Fmd : There is some advanced reproduction in this stand and a lot of ironwood coming back. To encourage sugar maple, regeneration gaps are to be created by either removing or girdling old cull trees. This stand should be cut to 70 ft^2. This will allow adequate growing space for the quality residual stems. Concentrate removal in the 6-12" dbh class range leaving the black cherry. This will help to bring the stand into a regulated state under unevenage management.</p>														
38	Q6	S2	122	85	8	90	50	mixed swamp conifer	two aged	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Too wet Harvesting technology inadequate</p> <p>comnts Fmd : Part of this stand could be cut during the next entry period. Past harvesting practices have left areas of mature and imature spruce/tamarack. After some smaller stands of this type have been harvested and evaluated, a better management decision can be made. This stand is quite wet in portions which may limit complete harvesting. Where there are openings in the stand there is quite a bit of balsam and spruce seedlings and saplings growing. The southern portion contains a fair amount of cedar and will need to be left out of the harvest areas.</p>														
39	C6	F2	11	81	10	170	45	cedar	mature	N		not scheduled	0	
<p>comnts Fmd : This is a mature cedar stand.</p>														
40	R6	A3	51	56	8	70	60	red pine	two aged	N		10-19 years	0	
<p>comnts Fmd : The majority of the stand is this age. There are parts that have older trees. It seems that this stand has 3 different age classes, saplings, poles, and sawtimber. Fire seems to have been the main cause of this but some may have been from past cutting practices.</p>														
41	A6	F1	9	50	8	120	70	aspen (upland)	immature	Y	final harvest	within 0-9 years	2	
<p><u>Treatment Limiting Factors:</u> Land survey needed</p> <p>comnts Fmd : This stand is mature, but could wait till next entry to be harvested. Waiting would allow more growth to occur and would leave a mature aspen stand, though small, in this compartment. If it is decided to cut this stand: Clearcut leaving a buffer along Turner Creek. Cut all species regardless of merchantability to provide for the best regeneration of aspen.</p>														
42	B6	F2	20	80	8	80	50	paper birch	mature	Y	seed tree	within 0-9 years	1	natural regeneration
<p>comnts Fmd : The birch in this stand is 70+ years old and has a lot of top die back. A seed tree cut is being prescribed removing 60% of the basal area, leaving 4 to 5 trees per acre. The stand should be whole tree harvested during the summer or early fall, if at all possible, to provide adequate scarification to prepare the seed bed. All trees down to 1" dbh should be removed leaving as little competition as possible for the regenerating stand. Aspen, spruce, balsam fir and hardwoods are also acceptable regeneration species.</p>														
43	C6	F2	17	83	9	190	40	cedar	mature	N		not scheduled	0	
<p>comnts Fmd : Treatment period is 9 since this is a cedar stand and we are not actively managing these stands at this point in time.</p>														
44	C6	F1	4	83	8	120	40	cedar	mature	N		not scheduled	0	
<p>comnts Fmd : This stand is predominantly cedar mixed with various swamp conifer species. Treatment period is 9 since we are not actively managing this timber type at this time.</p>														
45	L0	G0	25			0		lowland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This stand should be clearcut removing all species regardless of merchantability except cedar. The goal is to keep this as a mixed stand of aspen and swamp conifer. Some black ash will regenerate and recruit from the seedlings and saplings present. This should be cut during the winter due to the wetness of the site.</p>														
46	Q6	F1	12	81	9	90	50	mixed swamp conifer	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : This stand should be clearcut removing all species regardless of merchantability except cedar. The goal is to keep this as a mixed stand of aspen and swamp conifer. Some black ash will regenerate and recruit from the seedlings and saplings present. This should be cut during the winter due to the wetness of the site.</p>														

* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acreage	avg.			Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
				Age	D B H	Tot. BA								
47	L0	U0	1			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Low area that appears to be an old bog. There is standing water during wet periods of the year.														
48	E6	F2	9	81	8	100		swamp hardwoods	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
comnts Fmd : The soil in this stand is of the Carbondale and Cathro muck series which are very poorly drained soils. Seedling mortality is high as is potential for wind throw. It is not recommended that this stand be harvested.														
49	Q6	F2	2	81	8	90	45	mixed swamp conifer	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Inadequate volume due to small acreage														
comnts Fmd : This is a small stand that borders the Ford River. It is wet and is providing a buffer along the river.														
50	L0	G0	12			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Low area along the Ford River.														
51	L0	G0	28			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Low area along Ford River.														
52	L0	G0	106			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Low area along Turner Creek.														
53	A3	U0	42	6	1	0	60	aspen (upland)	immature	N		50-59 years	0	
54	A3	U0	5	6		0	60	aspen (upland)	immature	N		50-59 years	0	
55	A6	F1	38	71	11	90	55	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : Lots of wet pockets and rock outcrops in this stand. Cut all trees regardless of merchantability and species. This stand should be winter cut. Access to this stand for harvesting is through stand 22.														
56	X0	X0	3			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : This is a gravel pit that is somewhat grassed over.														
57	A6	S2	5	41	8	100	50	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : This was previously a grassy opening that is now filling in with aspen. The northern portion of this stand is very steeply sloped (50%). This stand is within 300 feet of the Ford River. The railroad also runs through this stand.														
58	R6	G0	4	41	8	180	55	red pine	immature	Y	thinning	within 0-9 years	1	
comnts Fmd : Remove everythird row of trees starting with the third row from the western most edge of the stand.														

* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acres	Age	avg. D			Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	H								
59	Q6	F1	23	96	9	100	55	mixed swamp conifer	mature	Y		not scheduled	0		
<p><u>Treatment Limiting Factors:</u> Influence zones</p> <p>comnts Fmd : This is a predominately Q-type stand with some big tooth aspen mixing in in the southern portion of the stand. It is adjacent to Two Mile Creek and should be managed as a buffer providing shade and large debris for the creek.</p>															
60	L0	G0	4			0		lowland brush	nonstocked	N		not scheduled	0		
<p>comnts Fmd : This is a low area between two red pine stands.</p>															
61	A3	U0	7	20	3	0	60	aspen (upland)	immature	N		30-39 years	0		
<p>comnts Fmd : This stand will be in the pole size class at the next entry period.</p>															
62	U0	K0	1			0		upland brush	nonstocked	N		40-49 years	0		
<p>comnts Fmd : This was a previously maintained opening by the Wildlife Division, but they no longer want to maintain it. It is primarily bare rock with upland brush, grass, and moss beginning to cover the rock.</p>															
63	U0	K0	1			0		upland brush	nonstocked	N		40-49 years	0		
<p>comnts Fmd : This was previously an opening that was maintained by the Wildlife Division but they no longer wish to maintain it due to the nature of the stand. It is predominantly a granite outcrop that is beginning to be covered with upland brush, grass, and moss.</p>															
64	U0	K0	1			0		upland brush	nonstocked	N		40-49 years	0		
<p>comnts Fmd : This was a previously maintained opening by the Wildlife Division but they no longer wish to maintain it as an opening. The stand is predominately a granite rock outcrop that is beginning to be covered with upland brush, grass, mosses.</p>															
65	U0	K0	1			0		upland brush	nonstocked	N		40-49 years	0		
<p>comnts Fmd : This was a previously maintained opening that is no longer maintained. It is a granite rock outcrop that is beginning to be covered by upland bursh, grass, and moss.</p>															
66	U0	K0	1			0		upland brush	nonstocked	N		40-49 years	0		
<p>comnts Fmd : This was previously a maintained wilidlife opening that is no longer maintained. It is a granite rock outcrop that is beginning to be covered with upland brush, grass, and moss.</p>															
67	M5	M3	39	83	10	70	50	northern hardwood	two aged	N		10-19 years	0		
<p>comnts Fmd : Understory is well stocked with ironwood.</p>															
68	A3	G0	10	6		0	55	aspen (upland)	immature	N		50-59 years	0		
<hr/>															
400	G0	U0	5			0		grass	nonstocked	N		not scheduled	0		
<p>comnts Fmd : Powerline.</p>															
401	G0	G0	1			0		grass	nonstocked	N		not scheduled	0		
<p>comnts Fmd : Powerline</p>															
402	G0	G0	1			0		grass	nonstocked	N		not scheduled	0		
<p>comnts Fmd : Powerline. The snowmobile trail uses this portion of the powerline.</p>															

CRYSTAL FALLS FOREST MGT UNIT

Stand Level Information

Compartment: 43

Entry Year: 2007

* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand ID	Cover Type- Size Dnstry	Under Story- Stkng Level	A c r e s	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
				Age	D B H	Tot. BA							
403	G0	G0	1		0		grass	nonstocked	N		10-19 years	0	
comnts Fmd : This is an opening along the Turner Truck Trail.													
404	G0	G0	9		0		grass	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : This is a maintained opening developed along a road system through an aspen stand. Some of the hardwood stands that use this road system will be treated this entry period providing for an opportunity to treat this stand.													
405	G0	G0	2		0		grass	nonstocked	N		10-19 years	0	
comnts Fmd : Opening along railroad tracks.													
406	G0	U0	16		0		grass	nonstocked	N		10-19 years	0	
comnts Fmd : This is an opening that is in the upland brush stage of filing in. There are several patches of nice aspen that are contributing to the diversity of the stand. The brush has been browsed heavily by deer. There is also a small pocket of hardwood/fir in the upper northeast corner to provide for some cover. There are several burned pine stumps on the south facing slope of the stand, which is very steep.													
407	G0	G0	2		0		grass	nonstocked	N		10-19 years	0	
comnts Fmd : This is an opening along the Turner road. It appears that it may have been used as a gravel pit in the past that is now grassed over and filling in with brush.													
408	G0	G0	1		0		grass	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : This stand is an opening along an old road system accessing hardwood, aspen, and swamp conifer timber types. The stands adjacent to the opening are going to be harvested. This will provide an opportunity to maintain this opening.													
409	G0	G0	2		0		grass	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : This is an opening along an old road system accessing several different stands. Stand 6 adjacent to this opening is going to be harvested, which will provide for an opportunity to maintain this opening.													
410	G0	G0	1		0		grass	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : This is an opening along an old road system that accesses several different stands. Stand 6 adjacent to this opening is going to be harvested at this entry period. This will provide for an opportunity to maintain this opening.													
411	G0	G0	2		0		grass	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : This is an opening that was created by using a the road system through an aspen stand. This road may be used to harvest stands 13 and 55. If it is then it should be treated mechanically following sale closure.													
412	G0	G0	1		0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : This is an opening along the rail road tracks between two red pine stands.													
413	G0	U0	4		0		grass	nonstocked	N		10-19 years	0	
414	G0	G0	2		0		grass	nonstocked	N		not scheduled	0	

Total Acres..... 1959