

GRAYLING FOREST MGT UNIT

Stand Level Information

Compartment: 281 Entry Year: 2008

* 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	Age	A c r e s	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B H	Tot. BA	Site Indx							
1	J 3	J 3	38	6	0	0	49	jack pine	immature	N		50-59 years	0	
comnts Fmd : Cut in 1999 under sale #011-98-01 & planted in 2000. 2-4' JP, 8-10' NPO stump sprouts (was winter cut). Some stocking gaps to N. Used stand 3's SI.														
2	U 1	G 0	4	51	0	0	49	upland brush	nonstocked	N		10-19 years	0	
comnts Fmd : Grassy opening with cherry brush, sweetfern & shrubby JP regen, but not enough to call J1. Was diameter-limit cut in '88 under sale #27-88-01, but was not replanted. Look at harvesting and planting next YOE with stand 3														
3	J 5	O 1	113	51	7	60	49	jack pine	two aged	N		10-19 years	0	
comnts Fmd : 3+ aged JP: 70 yr old overmature JP (a lot dead already), 50-60 yr old poles with slow recent growth, and barely merchantable poles & lg saps. Scattered RP w/ large range in age & size classes, NPO mostly dead already but seeded in good advanced regen O1-O3. Allow younger majority JP component to mature 10 more years before harvesting. In '67, ~34 ac had marked RP removed in N1/2NE under sale #8-67. Used previous YOE yr of origin.														
4	R 4	O 1	24	51	5	30	52	red pine	sparse	N		30-39 years	0	
comnts Fmd : Diameter-limit cut in '88 under sale #27-88-01, leaving small RP saw, poles & small JP. Open grassy inclusions. Also areas with good oak saps and stump sprouts. Old SI matched new one taken. Yr of origin based on small saw, but there is a younger component.														
5	O 9	A 2	55	81	12	70	58	oak	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : "Thinned" in 1999 under sale #012-98-01, cutting only aspen, RM & JP. Aside from fairly hybridized oak along the N edge, the stand on the high ground is fair-to-good quality RO small diam saw with good height growth & the best vigor of any oak stand in the compt. The "thinning" resulted in thick A3 & Mr2 regen below. While the RO is holding up well, it's growing extremely slow now, & with the A3 there is no hope for seed-origin regen. Final harvest now to get stump-sprout regen before the oak starts to lose vigor. Harvest will mean damage to existing BTA regen, but this is a unique oak stand for this area in terms of quality and efforts should be made to maintain an oak component, although a large RM & BTA component is expected to perpetuate the stand's mixed species composition. Harvest when the oak is dormant to reserve stores for stump sprouting.														
6	A 3	A 3	21	28	4	0	60	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Cut in '78 under sale #14-78A. BTA moving into the pole class, but most stems still sub-merchantable. RM stump clumps. Used previous SI.														
7	M 3	M 3	7	28	3	0	60	northern hardwood	immature	N		20-29 years	0	
comnts Fmd : Cut in '78 under sale #14-78A. Dense RM stump clumps with less than 25% coverage in oak stump sprouts. Used previous SI.														
8	O 8	U 1	24	68	12	50	50	oak	high risk	N	improvement	within 0-9 years	1	
comnts Fmd : NPO & overmature JP rapidly breaking up with a lot of snags & downed wood. Short RP saw, occasional BTA, small RM. A lot of firewood cutting, some illegal. Informal but heavily-used campsite to SW. Salvage the NPO, JP and BTA. Leave all RP. Harvest when the oak is dormant and leave scattered tops. Used previous SI since new SI on declining oak was very low and probably not representative.														
9	J 6	J 1	57	57	7	90	46	jack pine	two aged	N		10-19 years	0	
comnts Fmd : Scattered JP & RP saw, but majority of stems are short younger JP poles. Denser pocket of Super-canopy RP & smaller RP saw & poles in SW corner. Cull NPO mixed throughout stand. There is an overmature JP component, but it is small. Let younger poles grow 10 more years before harvest. In 1968, ~30 acres of the stand had all JP 12" and up cut under sale #95-68.														
10	O 9	U 1	46	68	12	70	57	oak	high risk	N	improvement	within 0-9 years	1	
comnts Fmd : Oak stand breaking up. Was fuelwood salvaged in 2002 under sale #27-01-02. More than the contract specs of 2 snags/ac were left due to excessive rot. A lot of overmature JP & NPO on the ground. Scattered RP (super-canopy, small saw, poles, <R1 regen overall), low-density RM stump clump poles and even some saw-sized. Salvage the NPO & JP. Leave all RP. Leave tops and cut when oak is dormant. Averaged SI between this and last YOE's.														

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					D B H	Tot. BA	Site Indx							
11	J 3	J 3	11	6	0	0	50	jack pine	immature	N		50-59 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : 3-5' planted JP north of 2-track. Cut in '99 under sale #11-98-01. Planted to JP in 2000. Was supposed to be to RP, but they ran out. Used previous SI.														
12	O 4	O 1	77	70	7	30	46	oak	sparse	N		10-19 years	0	
comnts Fmd : Former PVT aquired by land exchange in 2002. Did not appear to have been managed until shortly before the land transaction, when the area appeared to have been more-or-less high-graded, leaving scattered small oak saw & small RM, JP & RP poles. Some aspen cut to the NW & SE: damage to residual in SE corner couldn't have been higher if you'd tried. Called regen O1, but represents the combined stocking of oak, JP, RP, RM & aspen regen. Don't recommend treatment at this time -- allow natural regen to develop and evaluate next YOE to see if planting is warranted.														
13	O 9	G 0	33	70	11	80	56	oak	high risk	N	improvement	within 0-9 years	1	
comnts Fmd : Declining NPO: most of area was firewood salvaged once already in 2003. Oak is not seeding in. RP in all age/size classes nearly as large a component. Overmature JP saw with much mortality. Salvage the NPO & JP. Leave all RP & WP. Cut when oak is dormant and leave tops. Old OI notes indicate "some planted RP" - I did not pick up on that while walking through the stand.														
14	R 3	R 3	23	6	0	0	55	red pine	immature	N		50-59 years	0	
comnts Fmd : 2-3' tall RP, survivorship problems. NPO stump clumps 8-10' tall. Areas with R2 due to seedling loss. Areas of original sale planted to JP have better height growth (3-5' tall) & better stocking/survivorship. Cut in '99 under sale #11-98-01. Planted in 2000. Was all to go to RP, but ran out, so portions were planted to JP (stands 11, 15 & 16). Used stand 17's RP SI.														
15	J 3	J 3	5	6	0	0	50	jack pine	immature	N		50-59 years	0	
comnts Fmd : 3-5' tall JP. NPO stump clumps 8-10' tall. Cut in '99 under sale #11-98-01. Planted to JP in 2000 since they ran out of RP. Used previous SI.														
16	J 3	J 3	3	6	0	0	50	jack pine	immature	N		50-59 years	0	
comnts Fmd : 3-5' tall JP. NPO stump clumps 8-10' tall. Cut in '99 under sale #11-98-01. Planted to JP in 2000 since they ran out of RP. Used previous SI.														
17	R 8	W 2	29	53	11	60	55	red pine	two aged	N	improvement	within 0-9 years	1	
comnts Fmd : Most of stand fuelwood salvaged in 2004/2005. The NPO & overmature JP is rapidly declining, with a lot of snags and downed wood. Mix of age/size classes of RP along with WP small poles and regen. Salvage the NPO, JP & aspen. Leave all RP, WP & WO. Cut when the oak is dormant and leave tops scattered.														
18	A 3	A 3	10	17	2	0	57	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : TA on rolling ground with seasonally wet areas and tag-alder inclusions. WP & BF regen mixed in. Cut in '89 under sale #26-88-01. Includes some residual pine. Adjacent to L-type stand 19, see stand 19's MNFI management comments and locked comments. Used stand 52's SI.														
19	L 3	L 3	3		0	0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Tag alder over cattails/marsh grass with Q regen filling in. Spring peepers. See locked comments re MNFI observation. MNFI management comments indicate "leave untreated buffer around edge of bog".														
20	W 2	W 2	12	17	4	0	50	white pine	immature	N		40-49 years	0	
comnts Fmd : Most of stand w/in '89 treatment area (sale #26-88-01) with final harvest 2" & up except for unit to NW where pine were marked to leave (2 acres in that area were also cut in '79 under sale #15-79). Wide range of WP age/size classes, but WP lg saps are the most common. Includes ~1/5 acre Q/E swale in SE corner with hillside seeps and black ash. Adjacent to L-type stand 19 (see MNFI management guidelines and locked comments for that stand). TA regen mixed in to N & E. Dated stand to cut, but there is older & younger pine.														

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					D B H	Tot. BA	Site Indx							
21	O 9	R 1	23	76	12	80	50	oak	mature	N	seed tree	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Split from stand 25 by 2001 patch cuts. Declining NPO saw with RP saw & poles seeding in <R1, still open below. Used stand 25's SI. A lot of firewooding. The patch-cut oak stump sprouts were heavily browsed. Stand lies within the Conners Marsh project area boundary, making maintaining an oak component in this mixed stand a priority. Cut the oak now, at the same time as stands 25 & 34, in order to try regenerating through stump sprouts over larger areas to minimize the comfort level deer have with small patch-cut foraging and to try to overwhelm them with browse. Mark-to-leave 10 BA of NPO for seed. Leave all RP for seed trees and harvest only the mature JP. Do not chip tops; leave them scattered to inhibit deer movement and reduce browsing. Cut when the oak is dormant to conserve stores for sprouting. The goal is to regenerate a mix of species, including oak, RP, WP, JP & RM. Given the area's historical deeryard status and the importance of managing for a mixed stand with an oak component, lower stocking levels are acceptable and preferable to artificial regen (planting).</p>														
22	U 1	G 0	1			0	50	upland brush	sparse	N		10-19 years	0	
<p>comnts Fmd : Patch cut in 2001 under sale #33-98-01. Oak heavily browsed, most of it browsed to death. Scattered RP & WP large saps/small poles. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.</p>														
23	U 1	G 0	1			0	50	upland brush	sparse	N		10-19 years	0	
<p>comnts Fmd : Patch cut in 2001 under sale #33-98-01. Oak heavily browsed, most of it browsed to death. Scattered RP & WP large saps/small poles. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.</p>														
24	U 1	G 0	1			0	50	upland brush	sparse	N		10-19 years	0	
<p>comnts Fmd : Patch cut in 2001 under sale #33-98-01. Oak heavily browsed, most of it browsed to death. Scattered RP large saps/small poles, but less than R1 or R4. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.</p>														
25	O 8	R 1	32	76	12	60	50	oak	mature	N	seed tree	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Original stand split into 21, 25 & 34 by 2001 patch cuts. NPO is mature and declining, but patch cuts were heavily deer browsed & most oak stump sprouts were killed. Stand does have RP saw, poles & saps in clumps with areas of W, J, & RM regen. The coded "R1" understory is a composite of R, J, WP & RM regen. RM stump clump poles scattered around. Cut the oak (except mark-to-leave 10 BA NPO), merchantable JP & aspen. Leave all RP & WP & protect regen. Treat at the same time as stands 21 & 34. Stand lies within the Conners Marsh project area boundary, making maintaining oak in this mixed stand a priority. Cut when the oak is dormant to conserve stores for sprouting. Leave tops scattered. The treatment goal is to regenerate a mixed stand with NPO, RP, JP & RM. Given the area's historical deeryard status and the importance of managing for a mixed stand with an oak component, lower stocking levels are acceptable and preferable to artificial regen (planting).</p>														
26	U 1	G 0	2			0	50	upland brush	sparse	N		10-19 years	0	
<p>comnts Fmd : Patch cut in 2001 under sale #33-98-01. Most of oak sprouted, some suffering browse by deer, others above browse line, but not enough to call O1. Grass, sweetfern, cherry brush, & scattered WP & RP lg saps. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.</p>														
27	U 1	G 0	2			0	50	upland brush	sparse	N		10-19 years	0	
<p>comnts Fmd : Patch cut in 2001 under sale #33-98-01. Not much live oak had been cut, but most of that sprouted; some suffering browse by deer, others above browse line, but not enough to call O1. Grass, sweetfern, cherry brush, & scattered WP & RP lg saps. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.</p>														
28	U 1	G 0	2			0	50	upland brush	sparse	N		10-19 years	0	
<p>comnts Fmd : Patch cut in 2001 under sale #33-98-01. 2001 stump sprouts browsed down, but stump sprouts from earlier cutting are 8-15' tall. RP & WP lg saps & sm poles. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.</p>														
29	U 1	G 0	2			0	50	upland brush	sparse	N		10-19 years	0	
<p>comnts Fmd : Patch cut in 2001 under sale #33-98-01. Almost R1 in lg saps. 100% browse mortality in the oak (bumps up to A3). Outline of old foundation on E side. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.</p>														
30	U 1	G 0	2			0	50	upland brush	sparse	N		10-19 years	0	
<p>comnts Fmd : Patch cut in 2001 under sale #33-98-01. 100% mortality in the oak. Scattered RP & WP lg saps/sm poles. Bumps up to A3. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.</p>														

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				Age	D B H	Tot. BA							
31	U 1	G 0	1			0	50	upland brush	sparse	N	10-19 years	0	
comnts Fmd : Patch cut in 2001 under sale #33-98-01. Only viable oak stump sprouts are from a much earlier cut; otherwise just RP/WP lg saps & sm poles. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.													
32	U 1	G 0	1			0	50	upland brush	sparse	N	10-19 years	0	
comnts Fmd : Patch cut in 2001 under sale #33-98-01. Oak stump sprouts browsed to death. Scattered RP & WP lg saps & sm poles. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.													
33	U 1	G 0	1			0	50	upland brush	sparse	N	10-19 years	0	
comnts Fmd : Patch cut in 2001 under sale #33-98-01. Oak stump sprouts browsed to death. One-quarter A3, but also browsed. Scattered RP & WP lg saps. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.													
34	O 8	R 1	31	76	12	60	50	oak	mature	N	seed tree	within 0-9 years	2 natural regeneration
comnts Fmd : Original stand split into 21, 25 & 34 by 2001 patch cuts. NPO is mature and declining, but patch cuts were heavily deer browsed & most oak stump sprouts were killed. Stand does have RP saw, poles & saps in clumps with areas of W, J, & RM regen. The coded "R1" understory is a composite of R, J, WP & RM regen. RM stump clump poles scattered around. Stand lies within the Conners Marsh project area boundary, making maintaining an oak component in this mixed stand a priority. Cut all NPO (except mark 10 BA to leave for seed), JP & aspen. Leave all RP & WP & protect regen. Cut when oak is dormant to conserve stores for sprouting. Leave tops to inhibit deer movement and browsing. Watch low area N of stand 36 where there is a pocket of aspen over tag alder - equipment operation may need to be limited. Treat at the same time as stands 21 & 25. The treatment goal is to regenerate a mixed stand with NPO, RP, JP & RM. Given the area's historical deer yard status and the importance of managing for a mixed stand with an oak component, lower stocking levels are acceptable and preferable to artificial regen (planting).													
35	A 3	A 3	33	18	3	0	60	aspen (upland)	immature	N	30-39 years	0	
comnts Fmd : Cut in 1988 under sale #23-88-01. TA 20-30' tall, 2-3" dam, with areas of Mr3 saps below, especially to S & W. U/G inclusions where landings were. Used previous SI.													
36	U 2	U 2	2	18	0	0	60	upland brush	sparse	N	not scheduled	0	
comnts Fmd : In former aspen sale #23-88-01 area, but converted largely to U-type with grass & cherry brush.													
37	A 3	A 3	2	18	2	0	60	aspen (upland)	immature	N	30-39 years	0	
comnts Fmd : Cut in 1988 under sale #23-88-01. TA 15-25' tall. Sale area N of 2-track (stand 36) largely went to U-type. Used previous SI.													
38	R 9	G 0	22	47	10	120	63	red pine	immature	N	10-19 years	0	
comnts Fmd : RP & some scotts pine planted around residual NPO & JP. Fire burned ~1.5 acres in the SE that was excluded from the stand boudary. Intact rows mainly in center 1/3 of stand -- beyond there, rows are sketchy, & lose all coherency where oak is more common. BA is still below normal thinning threshold. Saw diam generally 9-12". Skip the row-thin and do a free-thin next YOE.													
39	U 1	G 0	1			0	50	upland brush	sparse	N	10-19 years	0	
comnts Fmd : Patch cut in 2001 under sale #33-98-01. Oak stump sprouts browsed to death. Scattered RP & WP lg saps. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.													
40	U 1	G 0	1			0	50	upland brush	sparse	N	10-19 years	0	
comnts Fmd : Patch cut in 2001 under sale #33-98-01. Oak stump sprouts browsed to death. Scattered RP & WP lg saps. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.													
41	U 1	G 0	1			0	50	upland brush	sparse	N	10-19 years	0	
comnts Fmd : Patch cut in 2001 under sale #33-98-01. A few RP saps. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.													

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				Age	D B H	Tot. BA							
42	U 1	G 0	2		0	50	upland brush	sparse	N		10-19 years	0	
comnts Fmd : Patch cut in 2001 under sale #33-98-01. A lot of pine cut. No oak regen. A few RP saps & poles, WP lg saps. If Stands 21, 25 & 34 are planted to RP, plant through the patch-cut openings.													
43	S 5	S 2	10	45	7	50	41	black spruce-swamp	two aged	N		30-39 years	0
comnts Fmd : Mostly 30-50 year old black spruce with a scattered older minority component in its 80's. Thick spruce regen below on sphagnum moss. Pocket NWC to E, occasional tamarack, TA, paper birch. Dated stand to majority middle-aged component.													
44	N 0	N 0	38		0	0		marsh	nonstocked	N		not scheduled	0
comnts Fmd : Marsh grasses, leatherleaf, bog rosemary, labrador tea, sphagnum moss, swamp birch, tag alder. Tamarack colonizing margins. Includes pine island @ S end.													
45	D 4	D 1	38		5	20	24	treed bog	sparse	N		not scheduled	0
comnts Fmd : Tamarack & spruce regen & small poles growing very slowly on tall sphagnum hummocks. Tough, acidic site with pitcher plants & wild cranberry. Stand includes narrow strip of better Q along NE & E edges of stand 46, as well as a <1 ac pine island @ stand 45's S end. Also included: 1-2 chain wide strip of high ground with JP on the N & E section lines in the stand's far NE corner. Overall stand does not meet productive forest SI threshold. Knee boots not adequate to traverse.													
46	O 8	S 1	16	80	12	50	45	oak	mature	Y		not scheduled	0
Treatment Limiting Factors: Bridge needed (portable bridge not available or inadequate)													
comnts Fmd : High ground surrounded by D & N. Mix of overmature, poor-quality JP & NPO with much mortality & decline in both. Thick spruce regen around edges, almost S1. Separated from ridge of high ground & 2-track along section line by ~175' of the D/Q type. Access is limited by this unbridgeable gap.													
47	T 2	T 2	6	50	4	0	37	tamarack	immature	N		30-39 years	0
comnts Fmd : Except for ~1 ac inclusion of spruce/tamarack/cedar poles to NW, the stand is characterized by tamarack regen colonizing the leatherleaf bog/marsh margin around the flooding. Used old SI & stand age. Barely meets threshold for productive forestland.													
48	A 3	A 3	55	26	3	0	52	aspen (upland)	immature	N		20-29 years	0
comnts Fmd : Cut in 1980 under sale #20-79A. TA 15-30' tall, 1-3" diam. On shallowly rolling ground with L/N inclusions. Used old SI.													
49	R 9	G 0	22	50	12	80	62	red pine	immature	N	thinning	within 0-9 years	2
comnts Fmd : High ground surrounded on three sides by marsh/flooding. Actively breaking up NPO (that is being picked at by firewood cutters) that had RP & a little scotts pine planted under & around it except for E & S peninsulas. There is also older, naturally-recruited RP scattered throughout along with JP. In order to try to maintain an oak component for the long term, harvest the oak now to secure stump sprouts, but mark-to-leave oak in clumps for mast on the east peninsula. Remove the mature JP, scotch pine and aspen, as well as 20 BA of the RP (focussing on reducing competition with the leave oak & stump sprouts). Cut when oak is dormant to conserve stores for sprouting. Leave oak tops to inhibit deer movement and reduce browsing on stump sprouts. While RP predominates in this mixed stand, the overall goal is to maintain the existing mixture of tree species, with particular focus on perpetuating the oak component.													
50	Q 5	T 2	20	50	6	50	37	mixed swamp conifer	immature	N		30-39 years	0
comnts Fmd : Spindly spruce poles with spruce regen & tag alder below, more tamarack regen to S. Is a relatively open Q stand slowly colonizing the marsh flats. Stand is surrounded by 1-4 chain wide tag alder/marsh moat. Did not visit stand - did not have adequate waders. Brought forward previous OI data. Access for this stand is limited by maintained marsh flooding's water level. Stand just meets productive forestland SI threshold.													
51	N 0	N 0	81			0		marsh	nonstocked	N		not scheduled	0
comnts Fmd : Tag alder & leatherleaf growing over marsh grass. Some colonizing tamarack saps also. Includes <1 ac pine islands far out in the marsh.													

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52	A 3	A 3	78	26	4	0	57	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : Cut in 1980 under sale #20-79A. TA moving into the pole class. Some stems are pole-sized already, but the majority are still saplings, 30-40' tall, 4" ave diam. Mixed into the stand on the lower ground are swathes of WP & balsam fir lg saps/sm poles. Former landings are U/G inclusions now. Lowest ground in this shallow rolling terrain had tag alder, Q and standing water. Q/N inclusion along S section line. Main road through impassible in spring.</p>														
53	O 1	O 1	10	18	2	0	46	oak	immature	N		50-59 years	0	
<p>comnts Fmd : Cut in 1988 under sale #27-88-01, cutting all hdwds & diam limit cutting JP & RP. 15-25' oak stump sprouts, JP saps, occasional WP/RP saps/sm poles in N1/2, more WP/RP in S1/2. Has pockets of thicker pine regen & U/G inclusions, but called it oak to feature the good oak stump regen. The O1 is a composite of the O, J & WP regen. Used stand 12's SI.</p>														
54	R 1	R 1	1	5	4	0	63	red pine	immature	N		60-69 years	0	
<p>comnts Fmd : Patch cut in 2001, sale #33-98-01. Most oak stump sprouts browsed to death. Almost R1 with lg saps/sm poles. Some WP regen also. Used stand 38's SI.</p>														
55	Z 0	Z 0	5			0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Open water flooding resulting from beaver dam; actively being maintained & expanded through cutting aspen to N. Two lodges.</p>														
56	Q 4	Q 2	7	50	5	40	37	mixed swamp conifer	immature	N		30-39 years	0	
<p>comnts Fmd : Mostly Q lg saps with low density spruce & cedar above, much mortality in the spruce. E-type mixed in. Some RM & black ash (dead?). Used old SI. Access to stand in future will be limited by expanding beaver flooding to W (stand 55).</p>														
57	A 2	A 2	3	26	3	0	57	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : High knob surrounded by N/Q & pvt. Balsam fir regen & sm poles interspersed with clumps of aspen regen. Some large RM on low ground around the perimeter. U/G inclusions on top of hill. Cut in 1980 under sale #20-79A. Access was across pvt & apparently the contractor worked out a deal with the landowner to also cut ~6 ac of aspen on the pvt. Used stand 52's SI.</p>														
58	O 6	U 1	3	81	9	90	50	oak	mature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Blocked by other physical obstacle</p> <p>comnts Fmd : Island surrounded by marsh: NPO interior with thick WP saplings/poles around perimeter. A few RP & WP lg saw at edge. Did not visit; as seen from across marsh. Brought forward all previous OI data.</p>														
59	O 6	U 1	15	81	9	90	50	oak	mature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Blocked by other physical obstacle</p> <p>comnts Fmd : Did not walk through - viewed from stand 49 since did not have waders. Inaccessible islands (actually 3 lumped together) within the Conners Marsh Flooding. Old RP saw w/ RP, spruce, & JP below along the edges, oak & aspen in the interior on the high ground. Carried over previous YOE data since could not get to it.</p>														
60	Z 0	Z 0	140			0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Conners Marsh Flooding maintained by water control structure in comp 283. Canada geese, ducks, swans, beaver & more.</p>														
61	V 0	V 0	12			0		bog or muskeg	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Leatherleaf bog growing over a shallow lake. Pine island inclusion. Some emergent grasses in open water along E edge.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Age	Ave. D	B	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
62	O 8	G 0	60	87	12	50	53	oak	high risk	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Most of stand had all 10"+ JP cut in 1970 under sales #36-70, 46-70, 49-70 & 54-70. Actively declining, very poor quality NPO on rolling hills to N, flatter to S. JP in overmature saw and younger small poles as large a component, with occasional WP & RP sm saw, sm poles & regen. Along Conners Flat Road: old burn area to SW, BTA to SE. Used previous SI. The oak is dying without having seeded in any regen. Salvage the NPO, merchantable JP & BTA. Leave all WP, RP & WO. Chip tops to facilitate trenching & planting. Cut when the oak is dormant in order to conserve stores for stump sprouting. Plant to JP, avoiding the steep slopes to the N and the areas to the SE along Conners where the BTA will be regenerating. The treatment goal is to maintain an oak component through stump sprouting and to achieve adequate overall stand stocking with a mixture of natural regeneration (oak, WP, RP, JP, BTA) and planted JP. To mitigate the treatment's visual impact, mark oak to leave along Conners Flat Road.</p>														
63	Q 5	F 3	16	51	6	60	51	mixed swamp conifer	immature	N		30-39 years	0	
<p>comnts Fmd : Mostly small spruce & balsam poles with a few older spruce, NWC & tamarack on spongy sphagnum/root mat. The older spruce & NWC componenet is in the minority, so dated stand to "older" end of younger component: spruce in its 50's (drawn from similar stand 68). Allow small spruce to mature before harvesting stand. Dog-hair BF regen below. Stand contains narrow E-W ridge of higher ground w/ RM & WP. Pulled most of illegal "No Trespass" signs off of stand's S edge. An illegal road was grubbed through the swamp from the pvt to the N, also with illegal signs along it.</p>														
64	J 5	J 1	39	47	7	50	45	jack pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Stand has 3+ age classes of JP since it regenerated slowly over time by seeding in. While there is an overmature component, a majority of the stems are in their 40's or younger. Even a diameter-limit cut would take too many 30-40 year old stems. Allow stand to grow at least 10 more years before harvesting and replanting. Stand also has poor-quality NPO with localized WP seeding in. Stand 84 was split off by Conner Flat Rd. S part of stand had 10"+ JP cut in 1970 under sale #43-70.</p>														
65	N 0	N 0	2			0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Open water marsh with emergent grasses. Leatherleaf mat filling in from edges.</p>														
66	N 0	N 0	2			0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Open water marsh with emergent grasses. Surrounded by a ring of leatherleaf.</p>														
67	A 2	A 2	10	16	2	0	55	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Cut in 1990 under sale #24-88-01. 20-30' aspen w/ BF regen (TA to S, BTA to N). Surrounded by Q w/ tag alder adjacent. N end separated from S end. Beaver cutting heavy in N end. WP/BF inclusion at N end against marsh. Used old SI.</p>														
68	Q 5	F 2	15	51	7	60	51	mixed swamp conifer	immature	N		30-39 years	0	
<p>comnts Fmd : Mostly 40-50 year old spruce & balsam poles w/ minority older NWC & spruce component, thick regen below (mostly BF) on spongy sphagnum/root mat. Tamarack regen only along N edge Dated stand to "older" end of younger component. Let that younger majority component mature before harvesting the stand. .</p>														
69	N 0	N 0	7			0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Marsh grass, leatherleaf & tag alder between Q & flooding.</p>														
70	A 3	A 3	9	24	4	0	55	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : Part of 1982 cut, sale #21-79A. 40' TA hit by hypoxylon, BF regen @ margins, few NPO saw residual w/in. Small beaver dam to S. Used stand 67 SI.</p>														
71	C 6	F 3	20	109	7	70	28	cedar	mature	N		10-19 years	0	
<p>comnts Fmd : Mostly small diam short cedar poles growing on shallow sphagnum-covered root mat with open water. Associates include spruce & tamarack with thick BF understory. Center of W peninsula of stand has a dense pocket of saw-sized NWC on drier sphagnum. Cutting the cedar under current conditions would result in conversion to BF & tag alder. Consider harvest in future only if better regen techniques become available.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Age	A c r e s	avg. D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
72	S 3	S 3	19	24	3	0	51	black spruce-swamp	immature	N		60-69 years	0	
comnts Fmd : Majority of stand cut in 1982 under sale #21-79A. 1-4" diam spruce & balsam regen with a few merchantable stems & an older inclusion to the NW. West edge of stand is on dry ground, but most of the stand is on lower, marshy ground. Ranges from S2-S3+, with U-inclusions on the high ground. WP lg saps/sm poles mixed in along edge shared with stand 73. Used stand 68's SI														
73	A 5	F 1	16	36	7	60	62	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Cut in 1970 under sale #24-69, all merch JP & aspen, then cut again, everything 2" & up, in 1972 under the DRIP program. Mosaic of BTA & TA on the higher ground with BF, spruce, WP on the lower ground with pockets of sphagnum moss & pooled water. 24"+ diam supercanopy WP & a few RP concentrated in the stand's SW corner, but scattered individuals occur throughout the stand. Used previous SI since the aspen is relatively young.														
74	C 5	F 3	18	109	7	60	28	cedar	mature	N		10-19 years	0	
comnts Fmd : Spindly NWC on sphagnum/root mat, dead black ash, dog-hair BF regen, scattered lg pole/sm saw tamarack & some big old spruce poles. Used stand 71's SI. Cutting the cedar under current conditions would convert the stand to BF. Consider harvest in the future only if better regen techniques become available. S end of stand near the county rd includes a small pocket of super-canopy WP.														
75	O 9	F 1	18	81	13	90	50	oak	mature	Y	seed tree	within 0-9 years	1	natural regeneration
comnts Fmd : Part of stand had 10"+ JP cut in 1970 under sale #52-70. Variable species mix, but common theme is NPO saw with some mortality, along with: TA & BTA to N, RP to NE, JP to W, RM to E, WP to E & SE. The oak is not regenerating and the stand is converting to mixed pine. Cut all of the RM, BF & aspen, diameter-limit cut the JP >6", and remove the mature RP in order to reduce competition for the oak. Leave the WP & WO and mark-to-leave NPO for a total of 10 BA reserved oak. Apply snowshoe hare specs. Do not allow chipping of the tops: leave them scattered, except keep tops well back from Conners Flat Road. Cut when the oak is dormant to conserve stores for stump sprouting. The treatment goal is to maintain an oak component through stump sprouting and seeding while also regenerating a mixture of species such as RP, WP, BF, RM & JP. Given the area's historical deeryard status and the importance of managing for a mixed stand with an oak component, lower stocking levels are acceptable and preferable to artificial regen (planting).														
76	J 4	J 1	55	16	6	30	49	jack pine	immature	N		40-49 years	0	
comnts Fmd : Diameter-limit cut, 5" & up JP in 1990 under sale #21-88. Stand is a mix of 2-stick residual JP poles and J1-J2 lg saps, scattered RP small poles, and oak stump sprouts. Thick WP saps along NE edge. Used previous SI.														
77	E 4	L 2	2	85	6	40	10	swamp hardwoods	sparse	Y		not scheduled	0	
Treatment Limiting Factors: Inadequate volume due to low stocking/small diameter/etc. Inadequate volume due to small acreage														
comnts Fmd : Low-density black ash on sloughy ground with tag alder. Generally small-diameter 1-2 stick ash with dead tops. Very slow growth, falls off bottom of SI chart, well below productive forestland SI threshold. EAB trap tree on N edge of Conners Flat Rd. Stand 77 is N of rd, Stand 78 is S of rd.														
78	E 4	L 2	1	85	6	40	10	swamp hardwoods	sparse	Y		not scheduled	0	
Treatment Limiting Factors: Inadequate volume due to low stocking/small diameter/etc. Inadequate volume due to small acreage														
comnts Fmd : Low-density black ash on sloughy ground with tag alder. Generally small-diameter 1-2 stick ash with dead tops. Very slow growth, falls off bottom of SI chart, well below productive forestland SI threshold. EAB trap tree on N edge of Conners Flat Rd. Stand 77 is N of rd, Stand 78 is S of rd.														
79	W 6	F 1	31	61	7	80	70	white pine	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Diverse stand occupies river floodplain, risers and terraces above the AuSable, a designated Natural River. The risers have mucky hillside seeps that trickle down to the river. The stand also contains old oxbow swamps with black ash. There is dry ground, but it is fragmented by these seeps, oxbows & sloughs. Wide mix of species include WP, spruce, balsam fir, paper birch, RM, oak, TA, cedar and black ash. The stand also includes the Conners Flat Canoe Access parking lot/outhouse/canoe launch facility. Part of the stand was purchased with Dingell-Johnson funding for a public water access site. Because the stand is multiple-aged, the year of origin represents an average between the older & younger components (this YOY & the previous YOY's SIs). There are then, obviously, older & younger trees than what the year of origin indicates.														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acreage	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
80	Z 0	Z 0	3			0		water	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : AuSable River to centerline. Stand Condition 8 due to Natural Rivers designation.														
81	A 5	F 2	7	44	8	40	80	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : Mix of BTA & TA poles with WP poles, regen & fir below. Stand boundary was run to exclude most, but not all, wet slough inclusions. Treat with stand 82 next YOE.														
82	O 9	F 1	7	81	14	90	50	oak	two aged	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Inadequate volume due to small acreage														
comnts Fmd : W1/2 open, park-like NPO stand. E1/2 has a pocket of RP poles/saps & super-canopy RP with oak mixed in, also a pocket of TA. Treat this stand with stand 81 next YOE, due to small size of both.														
83	J 5	J 1	9	16	5	40	49	jack pine	immature	N		40-49 years	0	
comnts Fmd : Most of stand was diameter-limit cut, 5" & up JP, in 1990 under sale #21-88. Result is a mix of 2-stick JP with J1-J2 moving into the pole class, along with 1-stick WP, residual RP sm saw & poles to E, & decent oak stump sprouts. Used previous SI.														
84	J 5	J 1	8	47	7	50	45	jack pine	two aged	N		10-19 years	0	
comnts Fmd : Stand has 3+ age classes of JP since it regenerated slowly over time by seeding in. While there is an overmature component, a majority of the stems are in their 40's or younger. Even a diameter-limit cut would take too many 30-40 year old stems. Allow stand to grow at least 10 more years before harvesting and replanting. Stand also has poor-quality NPO with localized WP seeding in. Stand 84 was split off by Conner Flat Rd. S part of stand had 10"+ JP cut in 1970 under sale #43-70.														
85	O 8	G 0	14	88	15	60	53	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Inadequate volume due to low stocking/small diameter/etc.														
comnts Fmd : NPO saw, open below except for scattered WP, BF & JP lg saps/sm poles, a pocket of TA poles along the county road, occasional overmature JP, & a pocket of thick WP & SP sm poles to the SE in a depression. Treat next YOE along with stand 800, given both stand's relatively small acreages. Used previous SI since new one on declining oak is not representative.														
86	X 0	X 0	6			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : Conners Flat Road														
400	G 0	G 0	13			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Grassy opening with sweetfern, JP filling in from edges with J1-J3 inclusions, but not enough to ave out to J1. Occasional RP pole & NPO stump sprouts.														
401	G 0	G 0	1			0		grass	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : U/G type with sweetfern, scattered oak & pine lg saps. In shallow depression. WLD will do opening maintenance by FTP's.														
402	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Grassy opening with sweetfern, cherry brush, scattered JP regen & occasional NPO saw. Wld : This opening will not be maintained but left to revert to shrub														
403	G 0	G 0	2			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Former gas well site: grass, spotted knapweed. Truck box deer blind @ SW corner.														

GRAYLING FOREST MGT UNIT

Stand Level Information

Compartment: 281 Entry Year: 2008

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acres	avg.			Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
				Age	D B H	Tot. BA								
404	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Grassy opening with knapweed -- closed well pad?														
800	A 6	G 0	3	44	7	70	77	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : Most of stand is on property obtained from Consumer Power. Good quality BTA poles/sm saw, poorer quality TA poles. More oak & RM to S with WP below. Harvest with stand 85 next YOE. Fabiano gate is in trespass on state land.														
801	C 9	S 2	14	106	15	80	35	cedar	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : On land obtained from Consumers Power: Cedar poles & logs with scattered lg cull RM, thick spruce & fir below. Stand is on floodplain, riser & terrace overlooking the AuSable, a designated Natural River. Mucky hillside seeps flow down to the river, along with a larger drain that isolates an included ridge with very overmature BTA, RM & NPO. WP is more common to the stand's N side. Inoperable under BMP standards.														
802	Z 0	Z 0	2			0		water	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : AuSable River to centerline. Stand Condition 8 due to Natural Rivers designation.														
Total Acres.....			1754											