

* 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	Acrs	Age	avg.		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	Tot. BA								
1	O 7	A 1	95	96	13	30	60	oak	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)</p> <p>comnts Fmd : 1997: Select cut Oak 30 - 35% Crown Cover, Clearcut Aspen clones, scarify after cut. Plant Acorns. Stand shelterwood harvested in 2002, FTP submitted for planting of acorns 3-2002. (Old comment) This stand was never scarified of seeded with acorns. Virtually no understory is present in this stand due to deer browsing; almost every stem below the browse line has been damaged by deer. A few of the aspen clones are vigorous and regenerating well. Recommend a final harvest and planting the stand to pine. The aspen clones and any other patches of regeneration should be left during planting and harvesting activities. A few oak should be left to maintain diversity in the stand. Per Pre-Review discussion 8-21-07: Leave the shelterwood oak; give the stand more time to regenerate. Evaluate next YOE to determine if underplanting of pine would be appropriate.</p>														
2	J 6	X 0	40	47	7	90	48	jack pine	immature	N		10-19 years	0	
<p>comnts Fmd : This is a variable jack pine stand with areas of young and mature jack pine. Some red pine and oak are scattered throughout. A few open areas were found within the stand. There were no signs of damage or forest pests and the stand can hold another 10 years.</p>														
3	R 6	X 0	98	49	8	130	57	jack pine	immature	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Remove all JP and scattered Oak; and every third row of RP. (Old comment) The stand is variable in size and density, the north end is putting on the most growth and is the largest in diameter. Some areas are ready to be thinned again but overall the stand doesn't need to be treated. The live crown ratio is 30-40% for most of the stand and it is still responding from the previous thinning. There are some oak scattered throughout the stand that were never removed. A few, small pockets of jack pine remain on the edges of the stand or in the small openings. Per Pre-Review discussion 8-21-07: Final harvest and plant to jack pine along with stands 4 & 6. Leave any oak. This treatment will add another age class of jack pine to the area and increase the wildlife habitat potential of these stands. The red pine stand, even though recently thinned, has very little structural diversity or understory development.</p>														
4	O 4	X 0	3	90	10	30	53	jack pine	high risk	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : This is a poor quality oak stand with some jack pine. The oak is rapidly declining or it is already dead. Inadequate regeneration will result due to the poor condition of the overstory and the heavy deer browsing. A final harvest and the planting of pine is recommended. Per Pre-Review discussion 8-21-07: Final harvest but leave any reasonably vigorous oak. Plant to jack pine along with stands 3 & 6.</p>														
5	R 6	X 0	2	50	9	120	58	red pine	immature	N		10-19 years	0	
<p>comnts Fmd : This is a small pocket of red pine with some jack pine. The stand was not treated with the other red pine in the compartment. A thinning is recommended to release crop trees, remove low quality trees, and to thin from below. All the jack pine should be removed as well. Per Pre-Review discussion 8-21-07: due to its small size (2 acres) delay treatment and final harvest when an adjacent stand is cut.</p>														
6	R 4	X 0	12	49	8	30	57	jack pine	immature	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : This stand is similar to the adjacent red pine stand except the density is lower. There was a higher proportion of jack pine in this area which was removed in the last thinning and resulted in a very open red pine stand. There are a few jack pine seedlings in the understory. Per Pre-Review discussion 8-21-07: Final harvest and plant to jack pine along with stands 3 & 4. Leave any oak. See stand 3 comments regarding overall treatment objective.</p>														
7	J 6	J 1	40	47	7	80	45	jack pine	immature	N		10-19 years	0	
<p>comnts Fmd : This is a large, regenerating jack pine that is just starting to become merchantable. There is a considerable amount of variation in the stand, there are pockets of regeneration that are still immature and there are areas that are mature. The trees are relatively healthy and there were no signs of any forest health issues found during the stand examination. This stand could be treated but overall it should be treated at a later date. The adjacent jack pine stand, 10, is similar but with more areas of sapling sized trees.</p>														
8	O 9	X 0	35	90	14	90	54	oak	mature	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : This stand varies in quality and density. Some better quality saw timber oak can be found, but overall the oak is fairly poor quality. There is some higher quality aspen scattered throughout the stand which is mature. A few large, old growth red pine can be found in the stand. This stand is mature and a final harvest is recommended. Due to the heavy deer browsing and the condition of the oak, a conversion to pine is recommended. The pockets of aspen regeneration should be protected during planting operations. A few oak should be left to maintain diversity in the area. Per Pre-Review discussion 8-21-07: Maintain oak as the management objective. Final harvest but leave pockets of the healthier oak. Underplant jack pine, avoiding areas where the aspen component is likely to expand.</p>														

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					D	B	Tot. BA							
9	R 6	X 0	25	49	9	100	57	red pine	immature	N		10-19 years	0	
<p>comnts Fmd : Remove JP and every third row (or so) of RP (Old comment) The stand is variable in size and density, the north end is putting on the most growth and is the largest in diameter. Some areas are ready to be thinned again but overall the stand doesn't need to be treated. The live crown ratio is 30-40% for most of the stand and it is still responding from the previous thinning. There are some oak scattered throughout the stand that were never removed. A few, small pockets of jack pine remain on the edges of the stand or in the small openings.</p>														
10	J 6	J 1	132	47	6	80	48	jack pine	immature	N		10-19 years	0	
<p>comnts Fmd : This is a large, regenerating jack pine that is just starting to become merchantable. There is a considerable amount of variation in the stand, there are pockets of regeneration that are still immature and there are areas that are mature. The trees are relatively healthy and there were no signs of any forest health issues found during the stand examination. Overall the stand should be treated at a later date. The adjacent jack pine stand, 7, is similar but with a slightly less amount of sapling sized trees.</p>														
11	T 6	F 1	3	100	10	100	50	tamarack	immature	Y		20-29 years	0	
<p><u>Treatment Limiting Factors:</u> Threatened, endangered, and special concern species/communities</p>														
<p>comnts Fmd : This is a small lowland-tamarack stand surrounded by jack pine. Some large red and white pine where found near the stand edges where there is a higher water table. The understory consists of tag alder with some black spruce regeneration.</p>														
12	O 9	U 1	36	90	13	80	54	oak	mature	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : This stand varies in quality and density. Some better quality saw timber oak can be found, but overall the oak is fairly poor quality. There is some higher quality aspen scattered throughout the stand which is mature. A few rows of young red pine can be found in the stand. This stand is mature and a final harvest is recommended. Due to the heavy deer browsing and the condition of the oak, a conversion to pine is recommended. The pockets of aspen regeneration should be protected during planting operations. A few oak should be left to maintain diversity in the area. Per Pre-Review discussion 8-21-07: Maintain oak as the management objective. Final harvest but leave pockets of the healthier oak. Underplant jack pine, avoiding areas where the aspen component is likely to expand.</p>														
13	R 6	A 1	7	51	10	120	57	red pine	mature	N		10-19 years	0	
<p>comnts Fmd : Remove Oak and Aspen. Thin RP. Thrid row thinned (Old Comment) This is a small red pine stand that is transitioning into saw timber sized trees. Tree density varied, some open areas were included in the stand. The size and quality is better than the nearby red pine stands. Some areas are ready to be thinned again but overall the stand doesn't need to be treated. The live crown ratio is 30-40% for most of the stand and it is still responding from the previous thinning.</p>														
16	A 5	U 1	17	52	8	70	46	aspen (upland)	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p>														
<p>comnts Fmd : This stand consists of scattered aspen clones in a opening. The quality and size vary throughout the stand, there is some oak and pine scattered throughout. A final harvest is recommended to regenerate the stand. Leave some oak and red pine for retention. There are a few aspen clones on the edges of the adjacent jack pine stands could be included. Also nearby mature aspen clones in the stands 415 and 416 could be included in this treatment as well. Per Pre-Review discussion 8-21-07: If aspen will hold in terms of health, treat next YOY to increase the age class diversity of that type within the compartment.</p>														
17	J 5	X 0	16	38	7	40	45	jack pine	sparse	N		10-19 years	0	
<p>comnts Fmd : This is an open, low stocked jack pine stand. The stand has higher stocking on the north end where there is a north aspect slope.</p>														
18	R 6	A 1	2	49	10	130	57	red pine	mature	N		10-19 years	0	
<p>comnts Fmd : This is a small red pine stand that has been third row thinned. Tree density varied, some open areas were included in the stand. Some areas are ready to be thinned again but overall the stand doesn't need to be treated. The live crown ratio is 30-40% for most of the stand and it is still responding from the previous thinning.</p>														
19	A 2	O 1	44	6	1	0	52	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : This stand was harvested in 2000/2001. The management objective was oak; the only species that is successfully regenerating is aspen. This entire compartment has a very heavy deer browsing problem. Where the oak has regenerated, it has been browsed. The aspen is growing vigorously and has grown above the browse line throughout most of the stand. The western edge of the stand was expanded to encompass additional aspen regeneration and some older aspen clones.</p>														

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					B	Tot. BA								
20	O 8	U 1	25	96	16	50	60	oak	sparse	Y		within 0-9 years	0	opening maintenance
<p><u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments)</p> <p>comnts Fmd : This stand contains large diameter, open grown oak with some jack pine mixed throughout. The understory is sparse with some scrub oak and cherry growing in. Recommend a prescribed burn to maintain an open oak stand for wildlife.</p>														
21	A 6	X 0	10	35	6	110	75	aspens (upland)	immature	N		final harvest	within 0-9 years	2
<p>comnts Fmd : This is a young aspen stand with scattered oak throughout. Stand could wait to be treated but a final harvest is recommended to support the DNR's objective of reducing the amount of aspen in this age class. Per Pre-Review discussion 8-21-07: No retention was agreed upon due to relatively small stand size.</p>														
23	J 5	X 0	21	47	7	60	47	jack pine	low quality	N			10-19 years	0
<p>comnts Fmd : This stand is on a south-facing aspect slope and consists of poor quality jack pine. The stand is open in areas and the trees are poor quality. Overall the stand can hold until the larger adjacent jack pine stand is treated.</p>														
24	A 5	A 2	2	42	5	70	55	aspens (upland)	immature	N		final harvest	within 0-9 years	2
<p>comnts Fmd : This is a small aspen stand that is progressing into an A6 stand. Some of the larger trees are already beginning to decline. Per Pre-Review discussion 8-21-07: No retention was agreed upon due to small stand size.</p>														
25	R 6	A 1	9	49	11	130	57	red pine	mature	N			10-19 years	0
<p>comnts Fmd : This is a small red pine stand that has been third row thinned. Some areas are transitioning to saw timber sized trees. Tree density varied, some open areas were included in the stand. Some areas are ready to be thinned again but overall the stand doesn't need to be treated. The live crown ratio is 30-40% for most of the stand and it is still responding from the previous thinning.</p>														
26	X 0	X 0	1			0		other non-stocked or non-forest or non-productive	nonstocked	N			not scheduled	0
<p>comnts Fmd : Active wellsite, in fair condition, the access road has some rutting and erosion concerns. State Clinton D2-1, Permit No. 51720, Paxton Resources LLC.</p>														
28	X 0	X 0	1			0		other non-stocked or non-forest or non-productive	nonstocked	N			not scheduled	0
<p>comnts Fmd : Active wellsite, in good condition. State Clinton B4-12, Permit No. 52022, Paxton Resources LLC.</p>														
29	X 0	X 0	1			0		other non-stocked or non-forest or non-productive	nonstocked	N			not scheduled	0
<p>comnts Fmd : Active wellsite, in fair condition, the access road has some rutting and erosion concerns. State Clinton B2-12, Permit No. 51725, Paxton Resources LLC.</p>														
31	A 6	X 0	4	35	6	110	80	aspens (upland)	immature	N		final harvest	within 0-9 years	2
<p>comnts Fmd : This stand is comprised of several young aspen clones on the edge of the adjacent oak stand. The trees that were cored appeared to have heart rot. Per Pre-Review discussion 8-21-07: No retention was agreed upon due to small stand size.</p>														
32	R 6	X 0	1	50	9	120	58	red pine	immature	N			10-19 years	0
<p>comnts Fmd : This is a small pocket of red pine with some jack pine. The stand was not treated with the other red pine in the compartment. A thinning is recommended to release crop trees, remove low quality trees, and to thin from below. All the jack pine should be removed as well. Per Pre-Review discussion 8-21-07: due to its small size (1 acre) hold and treat along with the adjacent stand 9 next YOY.</p>														
100	L 0	L 0	3			0	0	lowland brush	nonstocked	N			not scheduled	0
<p>comnts Fmd : This is a lowland brush stand between the county road and the campground road. A small drains the area to McCollum Lake. There are a few trees on the edge, primarily aspen and red maple.</p>														

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101	I 0	I 0	11		0	0		local use	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This stand is McCollum Lake State Forest Campground and boating access site. The cabin on the north end belongs to the state. There are various trees species within the campground, all of which appeared to be healthy. A small culvert drains the adjacent lowland into the lake via a short, small creek.</p>														
103	A 3	A 3	2	27	4	0	50	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : This is a small upland aspen stand near the road and the lowland area. Most of the stand is still unmerchantable however there are pockets of older trees that are merchantable.</p>														
105	M 6	F 2	4	75	10	90	62	northern hardwood	mature	N		not scheduled	0	
<p>comnts Fmd : This variable hardwood stand needs to be treated. The few pockets of paper birch and aspen should be treated with the stand. Leave the red pine and a few oak for residual. The stand should regenerate to red maple, birch, apen, with some fir and spruce. Per Pre-Review discussion 8-21-07: By the time the adjacent historic cemetery and lowlands are adequately buffered, very little of this small stand would actually be treated; drop management prescription.</p>														
106	Q 6	L 1	28	82	7	80	29	mixed swamp conifer	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Deer yards</p> <p>comnts Fmd : This is a large lowland area that is fed from the north by a small pond and drains in the lake. The culvert under McCollum Lake road is inadequate causing the high water table. Flowing water is present and there are open treeless areas with cattails and other wetland species within the stand. There are some pockets with denser stocking, primarily cedar. There was no cedar regeneration found and the stand is converting to other lowland conifers such as spruce, tamarack, and fir. It appears this stand is used for a deer yard during the winter. Due to the high water table no management is recommended.</p>														
109	O 9	W 2	20	86	15	100	60	oak	two aged	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Deer yards</p> <p>comnts Fmd : This stand has large diameter stump-sprout origin oak with some white and red pine in the overstory. Some miscellaneous species were found such as red maple and jack pine. The understory is dense white pine regeneration. A final harvest is recommended to release the white pine understory. All pine and some oak should be left as residual. The portion of the stand to the east of the railroad grade in the northeast corner does not need to be treated. A survey may be needed for the northwest corner. Per Pre-Review discussion 8-21-07: From WLD's perspective, this stand - in a small block of state land surrounded by hunt club properties - is really unique. It has big, old oak with a white pine understory. Given current conditions, cutting the oak would effectively eliminate that type from the stand, so leave it. White pine will eventually dominate the stand, but at least an oak component will persist in the near term.</p>														
110	I 0	I 0	1			0		local use	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This stand is a cemetery, is appears to be state land. There is an old fence encompassing the cemetery. It is heavily forested for a cemetery but someone is maintaining it. LOTS species that parcel as being 8 rods by 20 rods.</p>														
402	G 0	G 0	4		0	0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This is an opening on a slope with a few jack pine and large, open grown oak.</p>														
403	G 0	G 0	3		0	0		grass	nonstocked	N		10-19 years	0	
<p>comnts Fmd : This is an open area with a few scattered maples. It appears this stand was used for a campground or some other use. There is a gate and posts adjacent to the road that can be easily bypassed. The old notes indicate there is fill and cement from the construction of the boat ramp at the access site.</p>														
407	G 0	G 0	2		0	0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : The SE corner has .3 acre in a life estate granted to Ralph Farley. (Old comment) This is a small opening; aspen, spruce, and fir regeneration are beginning to move towards the stand. There is a small lowland area in the southeast corner of the stand.</p>														
408	G 0	G 0	2		0	0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This opening with grass and bracken fern, some white pine is growing in on the edges. An old railroad grade passes through the stand, the stand may have been used for logging is the past.</p>														

GRAYLING FOREST MGT UNIT

Stand Level Information

Compartment: 28

Entry Year: 2009

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					D B H	Tot. BA								
415	G 0	G 0	11		0	0		grass	nonstocked	N		30-39 years	0	
comnts Fmd : This stand is primarily a opening but it is beginning to revegetate with trees. There are some aspen clones and pockets of pine scattered through out.														
416	G 0	G 0	34		0	0		grass	nonstocked	N		30-39 years	0	
comnts Fmd : This stand is primarily a opening but it is beginning to revegetate with trees. There are some aspen clones and pockets of pine scattered through out.														
422	G 0	X 0	1		0	0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : This is a well site with no current activity. It is partial on a hill, however no erosion was observed during the examination.														
427	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Old wellsite, is not being used at this time.														
Total Acres.....			809											