

GLADWIN FOREST MGT UNIT

Stand Level Information

Compartment: 15

Entry Year: 2007

* 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	A c r e s	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA								
1	R9	O1	53	68	11	140	60	red pine	immature	N	thinning	within 0-9 years	1	
comnts Fmd : Red pine and jack pine planted in 1937. All jack pine and oak removed in 1998. Reduce BA/AC to 90' to 100' sq ft. Individually mark trees for removal - rows are indistinguishable.														
2	J5	J2	8	30	6	60	46	jack pine	immature	N		20-29 years	0	
3	O3	O3	16	8	2	0	55	oak	immature	N		50-59 years	0	
comnts Fmd : Final harvest 1997. Nice mix of natural regeneration. O3 - O2/J2/A1/Mr1.														
4	J4	J3	2	13	4	20	60	jack pine	immature	N		40-49 years	0	
comnts Fmd : Old grass stand filling in with jack pine.														
5	A3	A3	10	18	3	0	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Habitat cut in 1987.														
6	N0	N0	25		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Creek bottom stand.														
7	R5	O3	62	68	9	60	52	oak	immature	N	final harvest	within 0-9 years	1	
comnts Fmd : Red pine and jack pine planted in 1937. All jack pine and oak removed in 1998. Dense O3 understory has resulted from partial harvest in 1998. As per on-site meeting with Jim Bielecke, Jason Stephens and Scott Throop. Final harvest with reserves. The reserves will be small mushroomed shaped un-cut islands the reserve areas should be about 4 acres each. The islands should be scattered and will also serve as visual management tools in an area with significant harvest's proposed. The management objective is changing from red pine to oak.														
8	O9	O1	27	75	10	90	52	oak	immature	N	shelterwood-seed	within 0-9 years	1	
comnts Fmd : Reduce BA/AC to 30' to 40' sq. ft. to stimulate oak regeneration. Residual trees should be marked individually and in groups.														
9	J6	O3	27	56	8	100	38	jack pine	mature	N	final harvest	within 0-9 years	1	planting
comnts Fmd : Final harvest 2" DBH spec. Leave all oak, most is standing dead. Understory ranges from O1 to O3. May need to interplant red pine to maintain full stocking.														
10	L0	L0	5		0	0	40	lowland brush	nonstocked	N		not scheduled	0	
11	L0	L0	8		0	0	40	lowland brush	nonstocked	N		not scheduled	0	
12	L0	L0	3		0	0	40	lowland brush	nonstocked	N		not scheduled	0	
13	O8	M3	7	75	10	60	55	oak	immature	N		20-29 years	0	
comnts Fmd : Red maple understory 25' to 30' tall. Stand was thinned in 1967. The stand is between two "L" types. Hold this YOE due to heavy harvesting in this area.														

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					Age	Tot. BA								
14	E6	F2	10	60	7	70	50	swamp hardwoods	immature	N		not scheduled	0	
comnts Fmd : To wet to harvest. Stand is a drain. Cut to the north and south.														
15	J5	J3	13	39	7	60	45	jack pine	immature	N		10-19 years	0	
comnts Fmd : In transition between J3 and J6.														
16	O6	O2	43	75	9	80	52	oak	mature	N	final harvest	within 0-9 years	1	planting
comnts Fmd : As per on-site meeting with Jim Bielecke, Jason Stephens and Scott Throop. Final harvest with reserves. (2" DBH spec). The reserves should be marked both individually and in groups. Residual could be as high as 20' to 30' sq ft in some areas, average reserve residual should be 10' sq ft. Interplant red pine following harvest to maintain full stocking. The results will be a mixed stand of oak, jack pine and red pine. There are pockets of pure jack pine at south end of stand. Buffer 'L' stand at south west corner. Wide stand transition lines between this stand and surrounding stands.														
17	M6	M3	10	65	8	80	55	northern hardwood	immature	N	final harvest	within 0-9 years	2	
comnts Fmd : Final harvest 2" DBH spec with oak reserves. Manage for a mix of red maple, oak and aspen regeneration. A few scattered pole size white pine at south end of stand - leave white pine for visual.														
18	O6	O3	22	59	8	70	60	oak	immature	N	final harvest	within 0-9 years	1	planting
comnts Fmd : Mixed stand both overstory and understory has pokets of aspen, red maple and jack pine. Final harvest 2" DBH spec with oak reserves. Oak reserves should be marked both individually and in groups. Interplant red pine to maintain full stocking. Manage for a mix of red maple, oak, red pine and aspen regeneration.														
19	J4	J2	13	20	4	30	60	jack pine	immature	N		30-39 years	0	
comnts Fmd : Old open grass stand filling in with jack pine. Inclusion of "L" pocket at south end of stand.														
20	A5	O2	29	38	4	40	60	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Clearcut in 1967. In transition between A3 and A6. Residual hardwood from cut still stands.														
21	L0	L0	7		0	0	30	lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Stand was thinned in 1967. A very dense mixed understory has resulted from the harvest. The understory is reaching pole size. Overstory is naturally falling apart. Manage for understory - overstory very poor and is a natuarl supply of course woody debris.														
23	A3	O1	52	5	1	0	60	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Final harvest 2000 - Good natural mix of regeneration - A3/ A3-O1-J1-Mr1.														
24	R6	X1	33	51	8	130	48	red pine	immature	N		10-19 years	0	
comnts Fmd : Red pine under planted in 1956. Density varies.														
25	O6	O1	16	75	9	90	55	oak	mature	N	final harvest	within 0-9 years	1	planting
comnts Fmd : Red pine under planted in 1956. Most of the red pine is suppressed. Final harvest with reserves. Reserve trees should be marked individually and in groups. Interplant red pine following harvest to maintain full stocking. Leave strip of red pine at south end of stand along Clarence Road for visual.														

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					B H	Tot. BA								
26	R3	O1	22	5	1	0	55	red pine	immature	N		40-49 years	0	
comnts Fmd : Final harvest 2000. Replanted to red pine. Mix of O1 and J1 mixed in as well.														
27	O6	O2	13	75	8	110	48	oak	mature	N	shelterwood-seed	within 0-9 years	1	
comnts Fmd : Red pine under planted in 1949. Some of the red pine is suppressed. Harvest all but un-suppressed red pine. The 30' to 40' sq ft of residual red pine will act as a nurse crop for oak regeneration. Possible to leave all red pine 6" DBH and up.														
28	R6	O3	18	58	7	90	40	red pine	immature	N		10-19 years	0	
comnts Fmd : Red pine and jack pine planted in 1947. All jack pine and oak removed in 1991. Dense O3 understory has resulted from partial harvest in 1991.														
29	O5	O2	10	60	8	50	51	oak	immature	N		20-29 years	0	
comnts Fmd : Small pocket of oak that was left when surrounding stands were cut. Several deer camps in the stand. Leave for big tree management in an area that has been harvested.														
30	O3	O3	32	5	2	0	60	oak	immature	N		60-69 years	0	
comnts Fmd : Final harvest 2000. 4" spec - all white pine and a few oak seed trees were left.														
31	E6	E2	49	85	8	80	65	swamp hardwoods	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet Water quality/bmps														
comnts Fmd : Low wet site, mucky soils. Adjacent to Giss-I-Was Creek, down over a steep bank.														
32	C6	F2	9	111	8	200	40	cedar	immature	N		not scheduled	0	
comnts Fmd :														
33	E3	F2	14	17	3	0	55	swamp hardwoods	immature	N		60-69 years	0	
comnts Fmd : Habitat cut in 1988.														
34	N0	N0	76		0	0	25	marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Giss-I-Was Creek bottom lands.														
35	A4	A3	15	38	4	30	50	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Habitat cut in 1967. In transition between A3 and A6.														
36	A3	A3	14	4	1	0	50	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Fianl harvest 2000. Decent regeneration.														
37	W6	N1	15	46	6	70	50	white pine	immature	N		20-29 years	0	
comnts Fmd : White pine underplanted in 1959. All but white pine removed in 1997. Skid trails cut through the pine.														
38	W6	N1	7	46	6	90	50	white pine	immature	N		20-29 years	0	
comnts Fmd : White pine underplanted in 1959. All jack pine and marked oak removed in 1997. The oak that was left is at least 50% dead and most of this is on the ground.														

Stand	Cover Type-Dnsty	Under Story-Stkng Level	A c r e s	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA								
39	J3	O1	12	13	3	0	45	jack pine	immature	N		40-49 years	0	
comnts Fmd : Final harvest 1992. Good mix of natural regeneration J3/O1-A1-Mr1.														
40	L0	L0	11		0	0	30	lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Mostly tag alder and standing water a few scattered areas of A1 and J1.														
41	J3	O1	15	13	3	0	55	jack pine	immature	N		40-49 years	0	
comnts Fmd : Final harvest in 1992. Mix of natural regeneration J3/A2-O1-Mr1.														
42	Q6	F2	49	75	7	90	35	mixed swamp conifer	immature	N		not scheduled	0	
43	R9	O1	37	71	11	170	50	red pine	immature	N	thinning	within 0-9 years	1	
comnts Fmd : Red pine and jack pine planted in 1939. As per on-site meeting with Jim Bielecke, Jason Stephens and Scott Throop. Harvest all jack pine and oak. Reduce red pine BA/AC down to 60' to 70' sq ft. The residual red pine will act as a nurse crop to stimulate oak regeneration. Red pine density varies, mark suppressed trees first then co-dominant trees to hit target residual.														
44	R9	O3	117	68	14	130	55	oak	immature	N	final harvest	within 0-9 years	1	
comnts Fmd : Red pine and jack pine planted in 1937. All jack pine and oak removed in 1991. Dense O3 understory has resulted from partial harvest in 1991. As per on-site meeting with Jim Bielecke, Jason Stephens and Scott Throop. Final harvest with reserves. The reserves will be small mushroomed shaped un-cut islands the reserve areas should be about 4 acres each. The islands should be scattered and will also serve as visual management tools in an area with significant harvest's proposed. The management objective is changing from red pine to oak.														
45	R6	J1	20	71	10	110	50	red pine	immature	N	shelterwood-seed	within 0-9 years	1	
comnts Fmd : Red pine and jack pine planted in 1939. As per on-site meeting with Jim Bielecke, Jason Stephens and Scott Throop. Harvest all jack pine and oak. The residual red pine will act as a nurse crop to stimulate oak regeneration.														
46	J6	J3	8	47	5	110	45	jack pine	immature	N		10-19 years	0	
47	J6	J1	60	68	7	100	50	jack pine	mature	Y	final harvest	within 0-9 years	1	planting
comnts Fmd : Jack pine planted in 1937. Density, quality and size of jack pine varies. Final harvest 2" DBH spec leave all dead standing oak. Interplant red pine to maintain full stocking. The results will be a mixed stand. Leave all red pine, the red pine is located at the very south and north end of the stand along the roads. At the very south end of stand there is more oak and aspen treat up to two track at south end of stand.														
48	R9	O1	23	71	12	110	50	red pine	immature	N		10-19 years	0	
comnts Fmd : Red pine and jack pine planted in 1939. All jack pine and oak removed in 1999.														
49	O5	O3	30	89	8	60	60	oak	two aged	Y		30-39 years	0	
<u>Treatment Limiting Factors:</u>														
Inadequate volume due to low stocking/small diameter/etc.														
Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : Stand is way overmature. Large pockets of O3/J3 regeneration that is reaching pole size. Overstory is naturally falling apart. Manage for understory - overstory very poor and is a natural supply of course woody debris.														

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					B	Tot. BA								
50	O8	O1	31	89	15	50	50	oak	mature	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : As per on-site meeting with Jim Bielecke, Jason Stephens and Scott Throop. Final harvest with reserves. (2" DBH spec). The reserves should be marked both individually and in groups. Small islands of 15 to 20 trees are a option for reserves also. Residual could be as high as 20' to 30' sq ft in some areas, average reserve residual should be 10' sq ft. Interplant red pine following harvest to maintain full stocking. The results will be a mixed stand of oak, jack pine and red pine. Scattered semi open areas.</p>														
51	E9	E3	12	100	12	80	70	swamp hardwoods	immature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too wet Water quality/bmps</p> <p>comnts Fmd : Stand is in the Muskegon River flood plain. Wet mucky soils.</p>														
52	E6	F3	7	65	7	70	58	swamp hardwoods	immature	N		20-29 years	0	
<p>comnts Fmd : Stand is in the Muskegon River flood plain.</p>														
53	M6	M2	12	80	7	70	55	aspen (upland)	immature	N	final harvest	within 0-9 years	1	
<p>comnts Fmd : Final harvest 2" spec. Manage for aspen, leave all oak. Scattered pockets of balsam fir and jack pine. Looks like upland, (15" of snow) stand is just slightly higher then E6 stand to the west. May need to harvest in winter.</p>														
54	E6	F3	31	90	7	80	60	swamp hardwoods	immature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too wet Water quality/bmps</p> <p>comnts Fmd : Stand is in the Muskegon River flood plain. Wet mucky soils. Areas of tag alder, cattails, standing water and dogwood.</p>														
55	J3	O2	44	10	3	0	50	jack pine	immature	N		50-59 years	0	
<p>comnts Fmd : Final harvest in 1995. Mix of natural regeneration J3/O2-Mr1. White pine left at south end of stand.</p>														
56	J3	J3	13	7	1	0	50	jack pine	immature	N		50-59 years	0	
<p>comnts Fmd : Final harvest 1998. Planted to jack pine in 1998.</p>														
57	E6	F3	10	75	8	90	55	swamp hardwoods	immature	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too wet Water quality/bmps Too steep</p> <p>comnts Fmd : Stand is in the Muskegon River flood plain. Wet mucky soils. Stand is over a steep bank, drain bi-sects stand.</p>														
58	E6	E1	14	100	10	120	66	swamp hardwoods	immature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too wet Water quality/bmps</p> <p>comnts Fmd : Stand is in the Muskegon River flood plain. Wet mucky soils. Surrounded by water.</p>														
59	O6	O3	13	75	8	80	50	oak	immature	N	final harvest	within 0-9 years	1	
<p>comnts Fmd : Final harvest 4" spec. Release oak regeneration that is in place. The mature oak is on the decline. Stay back away from steep bank leading down to the Muskegon River back waters. Many new cabins on surrounding private land. Access will be from non maintained county road. Should get a mix of natural regeneration following harvest. J/O/A/Mr.</p>														
60	W6	N2	28	46	6	120	50	white pine	immature	N		10-19 years	0	
<p>comnts Fmd : White pine planted in 1959.</p>														

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					B	Tot. BA								
61	J3	O1	43	14	3	0	57	jack pine	immature	N		50-59 years	0	
comnts Fmd : Final harvest 1991. Mix of natural regeneratrion. J3/O1-Mr1-A1.														
62	A4	O1	23	32	4	30	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Habitat cut 1973. Oak was left. Just starting to reach pole size.														
63	E6	E3	103	80	9	110	55	swamp hardwoods	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Water quality/bmps														
comnts Fmd : Very wet mucky soils. Commercial harvest not feisable.														
64	O3	O3	30	10	3	0	50	oak	immature	N		50-59 years	0	
comnts Fmd : Final harvest 1995. Stump sprout oak. Mix of natural regeneration O3/J1-Mr1-A1.														
65	J2	J2	5	8	1	0	50	jack pine	immature	N		50-59 years	0	
comnts Fmd : Final harvest 1997. Pin cherry also present.														
66	E3	E3	4	18	3	0	50	swamp hardwoods	immature	N		60-69 years	0	
comnts Fmd : Habitat cut 1987.														
67	A3	F2	17	18	3	0	55	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Habitat cut 1987. Mix of natural regeneration aspen, balsam fir and oak.														
68	A6	E3	14	63	7	80	50	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Too wet														
Blocked by other physical obstacle														
Road needed (resources not presently available)														
comnts Fmd : Access is limited. Aspen is on the decline, converting to Mr, ash and oak. Overall stand is very wet. Commercial harvest would only be possible on 100% frozen ground. Possible habitat cut. However, regeneration is a concern as aspen is past its prime and on the decline. Fish Division recommends "leaving a 100 foot buffer between the aspen cut and wetland brush border at this site"														
69	E6	E3	11	109	9	100	60	swamp hardwoods	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Water quality/bmps														
comnts Fmd : Stand is in the Muskegon River flood plain.														
70	E9	E2	65	111	12	100	55	swamp hardwoods	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Water quality/bmps														
comnts Fmd : Stand is in the Musgegon River flood plain. Stand floods in srping and periods of rain. Pockets of swamp white oak.														

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					B	Tot. BA								
71	A6	E3	5	63	7	80	50	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Too wet														
Blocked by other physical obstacle														
Road needed (resources not presently available)														
comnts Fmd : Access is limited. Aspen is on the decline, converting to Mr, ash and oak. Overall stand is very wet. Commercial harvest would only be possible on 100% frozen ground. Possible habitat cut. However, regeneration is a concern as aspen is past its prime and on the decline. Fish Division recommends "leaving a 100 foot buffer between the aspen cut and the wetland brush border at this site"														
72	E6	E2	75	65	6	70	46	swamp hardwoods	immature	N		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Water quality/bmps														
comnts Fmd : Stand is in the Musgegon River flood plain. Stand floods in srping and periods of rain. Scattered pockets of cedar, hemlock and balsam fir. Old river oxbows all over the place.														
73	R6	O3	10	56	8	90	50	red pine	immature	N	final harvest	within 0-9 years	1	
comnts Fmd : Interplanted with red pine and jack pine in 1949. Heavy oak die off. Stand has a excellent understory of oak, aspen and maple 20' to 30' tall. Final harvest with reserves to release understory, 4" DBH spec.														
74	R6	O3	15	56	8	120	40	red pine	immature	N	selection	within 0-9 years	1	
comnts Fmd : Red pine and jack pine planted in 1949. Rows are hard to follow. Harvest all jack pine and scattered aspen. Reduce residual red pine to 60' sq ft. to establish regeneration and release regeneration that is in place. Red pine density varies. Residual red pine will act as a nurse crop to establish oak regeneration.														
75	A5	L3	11	32	5	50	50	aspen (upland)	sparse	N		not scheduled	0	
comnts Fmd : Very wet ground. Dense tag alder and dog wood understory.														
76	E4	Q2	3	65	8	30	50	swamp hardwoods	immature	N		not scheduled	0	
77	R6	R3	32	48	8	150	45	red pine	immature	N	final harvest	within 0-9 years	1	
<u>Treatment Limiting Factors:</u>														
Blocked by other physical obstacle														
Road needed (resources not presently available)														
comnts Fmd : Access is limited. Final harvest leave all oak.														
78	A6	E3	12	63	7	80	50	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Too wet														
Blocked by other physical obstacle														
Road needed (resources not presently available)														
comnts Fmd : Access is limited. Aspen is on the decline, converting to Mr, ash and oak. Overall stand is very wet. Commercial harvest would only be possible on 100% frozen ground. Possible habitat cut. However, regeneration is a concern as aspen is past its prime and on the decline. Fish Division recommends "leaving a 100 foot buffer between the aspen cut and wetland brush border at this site"														
79	O6	N1	3	89	10	100	60	oak	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Blocked by other physical obstacle														
Inadequate volume due to small acreage														
comnts Fmd : Very small stand surrounded by water and private.														

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					B H	Tot. BA								
80	O3	O3	23	8	2	0	50	oak	immature	N		50-59 years	0	
comnts Fmd : Final harvest 1997. 6" DBH spec. Good mix of natural regeneration. O3/J1-Mr1-A1. White pine residual at south end of stand.														
81	J6	O1	57	74	8	130	50	jack pine	mature	Y	final harvest	within 0-9 years	1	
<u>Treatment Limiting Factors:</u>														
Blocked by other physical obstacle														
Road needed (resources not presently available)														
comnts Fmd : Access is limited. Final harvest leave all oak. Good quality jack pine. Do not cut small (5 to 8 ac) oak ridge that runs through stand. Paint out of sale. Looks like natural stand no planting records.														
82	A3	A3	10	18	3	0	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Habitat cut 1987.														
83	A3	A3	10	18	3	0	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Habitat cut 1987.														
84	R5	O3	66	68	8	60	52	red pine	immature	N		10-19 years	0	
comnts Fmd : Red pine and jack pine planted in 1937. All jack pine and oak removed in 1998. Dense O3 understory has resulted from partial harvest in 1998. As per on-site meeting with Jim Bielecke, Jason Stephens and Scott Throop. Same as stand 7. This stand was split off of stand 7. Harvesting stand 7 this YOY and holdind this stand.														
85	Z0	Z0	10			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Muskegon River oxbow.														
400	G0	G0	11			0		grass	nonstocked	N		not scheduled	0	
401	G0	G0	6			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Old twp. dump. Still being used by local residents.														

Total Acres..... 2080