

* 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	Acrs	Age	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
1	C 6	C 1	84	91	9	140	43	cedar	immature	N		20-29 years	0	
<p>comnts Fmd : Soils - Carbondale, Lupton and Tawas soils Habitat - TTS/TTM Cedar with a few spruce & balsam fir and scattered hardwoods mixed in.. Some areas have poorer stocking and operability there is questionable. NOTE: This stand is part of a contiguous lowland cedar complex that is also represented in neighboring compartments 176 & 177. This complex has been identified in Cmp 176 as a rich conifer swamp by the Michigan Natural Features Inventory. Any future treatments in this stand may require a survey for T&E plant species prior to approval.</p>														
2	M 9	M 2	11		13	140	55	northern hardwood	unevenaged	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Blocked by other physical obstacle</p> <p>comnts Fmd : Soils - Munising-Yalmer-Frohling complex, calcareous substratum, 1-6% slope Habitat - AVO/ATD Ridge of hardwoods overlooking Noble Lake and surrounded by cedar - access issues make treatment impractical for the amount of volume to be harvested. Mixed softwood includes spruce & fir.</p>														
3	L 0	L 0	3		0	0		lowland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Soils - Dawson, Greenwood & Loxley soils Habitat - PCS Lowland adjacent to Noble Lake</p>														
4	M 6	M 2	2		9	100	46	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Soils - Munising-Yalmer-Frohling complex, calcareous substratum, 1-6% slope Habitat - AVO/ATD Ridge of hardwoods overlooking Noble Lake and surrounded by cedar - access issues would make treatment difficult.</p>														
5	E 6	E 2	52		9	100	46	swamp hardwoods	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Soils - Carbondale, Lupton and Tawas soils plus Cathro-Ensley mucks on the lower, wetter terrain; Munising calcareous substratum phase - Ensley complex, 0-6% slope on slight ridges Habitat - TTS, TTM and FI on the lowlands, and AVO/ATD on the ridges in the north.. Hardwood/conifer mix on terrain that is lower & wetter than the adjacent hardwoods. Narrow ridges of higher ground in the north half of the stand support upland hardwoods, and white pine is scattered throughout the area. Mixed softwood pulp includes spruce and fir. The understory varies widely from pockets of pure conifer regen to a mix of numerous hardwood/conifer species, with mountain maple as a common associate. Other lowland brush species are also present. Operability is questionable throughout this stand - at this time, the area is probably most valuable as undisturbed wildlife habitat.</p>														
6	A 3	M 3	11	4	1	0	50	aspen (upland)	immature	N		50-59 years	0	
<p>comnts Fmd : Soils - Munising calcareous substratum phase - Ensley complex, 0-6% slope Habitat - AVO/ATD Cut in 2003-04 under TS 41-014-02-01 - now a fully-stocked aspen regen stand. Understory is primarily sugar maple seedlings/saplings with scattered fir & spruce seedlings included.</p>														
7	M 9	M 3	119		11	110	55	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Soils - Munising calcareous substratum phase - Ensley complex, 0-6% slope Habitat - AVO/ATD with FI on the lowland inclusions Selection cut completed in 2004. Regeneration survey in 2008 indicates fully-stocked understory dominated by sugar maple and beech. Average diameter of the logs is approx 13-14" DBH. Mixed hardwood logs include red maple, yellow birch and black cherry; mixed hardwood pulp includes beech and yellow birch. Hemlock and balsam fir are also scattered throughout the stand.</p>														
8	A 3	M 3	7	4	1	0	50	aspen (upland)	immature	N		50-59 years	0	
<p>comnts Fmd : Soils - Munising calcareous substratum phase - Ensley complex, 0-6% slope Habitat - AVO/ATD Cut in 2003-04. Fully stocked aspen regen over sugar maple seedlings/saplings.</p>														

SHINGLETON FOREST AREA

Stand Level Information

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Stand	Cover Type-Size 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							
9	Q2	N0	4		2	10	20	mixed swamp conifer	unevenaged	N		not scheduled	0
comnts Fmd : Wet, marshy area with a few scattered merchantable-sized conifers and red maple. Inoperable, and site indices appear to be too low for commercial timber management.													
10	H4	M3	2		10	30	50	hemlock	unevenaged	N		50-59 years	0
comnts Fmd : Cut in 2003-04, leaving the hemlock. Site index for spruce was obtained from the previous stand. It is still shown due to the extreme shade tolerance and highly variable ages of the residual hemlock, which would make calculating an accurate SI very difficult at this time. The understory is a mix of pin cherry, sugar maple and beech.													
11	Q5	E1	38		8	60	27	mixed swamp conifer	unevenaged	N	final harvest	within 0-9 years	3
comnts Fmd : Slow-growing mix of conifers and hardwoods on a wet site. Stand density, composition and site indices vary significantly from site to site within the stand's area. Lowland brush is also scattered throughout. Mixed hardwood pulp includes birches, plus a few sugar maple and poplars; mixed softwood includes hemlock, spruce and white pine. Harvest by clearcutting w/reserves. Reserve all hemlock & yellow birch.													
12	C6	C1	21	94	8	150	27	cedar	immature	N		50-59 years	0
comnts Fmd : Soils - Carbondale, Lupton and Tawas soils Habitat - TTS/TTM													
13	N0	N0	28				0	marsh	nonstocked	N		not scheduled	0
comnts Fmd : Soils - Carbondale, Lupton and Tawas soils Habitat - TTS/TTM Beaver flooding has killed the timber in this area, but pockets of regen and lowland brush have become re-established on some of the higher spots. Site indices appear to be very low.													
14	E6	E2	11		9	100	46	swamp hardwoods	unevenaged	N		10-19 years	0
comnts Fmd : Soils - Carbondale, Lupton and Tawas soils plus Cathro-Ensley mucks on the lower, wetter terrain; Munising calcareous substratum phase - Ensley complex, 0-6% slope on slight ridges Habitat - TTS, TTM and FI on the lowest areas. Hardwood/conifer mix on terrain that is lower & wetter than the adjacent hardwoods. The understory varies widely from pockets of hardwood regen to a mix of hardwood/conifer species. Mixed softwood pulp includes spruce and fir. Operability may be questionable in parts of this stand - at this time, the area is probably most valuable as undisturbed wildlife habitat.													
15	M9	M3	23		14	140	55	northern hardwood	unevenaged	Y	selection	within 0-9 years	3
comnts Fmd : Soils - Munising-Yalmer-Frohling complex, calcareous substratum, 1-6% slope Habitat - AVO/ATD Sugar maple with a few beech & basswood on rolling, hilly terrain. Leave hemlock, some cherry, and 2-3 beech per acre, where present. Wld : Leave hemlock, some cherry, and 2-3 beech per acre, where present.													
16	M9	M3	316		12	80	60	northern hardwood	unevenaged	N		20-29 years	0
comnts Fmd : Soils - Munising-Yalmer-Frohling complex, calcareous substratum, generally 1-12% slopes with short runs of steeper ground in places; also Charlevoix-Ensley complex, 0-3% slopes, in the lower areas. Habitat - generally AVO/ATD, with TMC/FI on the lower, wetter ground. Last thinned in 2004-2005; regen survey in 2008 indicates that the understory remains fully-stocked, with sugar maple & beech dominating. Mixed hardwood logs include beech, cherry, yellow birch and red maple.													
17	L0	L0	5		0	0		lowland brush	nonstocked	N		not scheduled	0
comnts Fmd : Soils - Dawson, Greenwood & Loxley soils Habitat - PCS Lowland adjacent to Noble Lake													

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Stand	Cover Type- Size 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	Tot. BA	Site Indx							
18	E 6	F 3	33	10	140	50	swamp hardwoods	unevenaged	N	shelterwood- prep	within 0-9 years	3		
<p>comnts Fmd : Soils - Munising calcareous substratum - Ensley complex, 0-6% slope Habitat - AVO/ATD on the dryer ground, with FI on the swales. Mixed lowland hardwood/conifer stand on a gently rolling upland/swale complex. Mixed hardwood logs include sugar maple, yellow birch, beech, black cherry & black ash. Mixed hardwood pulp includes cherry, ash & beech. A few white pine are also present. Cut now reserving the hemlock & yellow birch. Acceptable regeneration will include all commercial species present.</p> <p>Wld : Leave all hemlock and some cherry. Protect larger low or vernal pool areas.</p>														
19	Z 0	Z 0	23	0	0		water	nonstocked	N		not scheduled	0		
<p>comnts Fmd : Soils - Histosols and aquents, ponded Habitat - unclassified Pond/flooded lowland area - headwaters of Star Creek. Water level varies seasonally.</p>														
20	L 0	L 0	3	0	0		lowland brush	nonstocked	N		not scheduled	0		
<p>comnts Fmd : Soils - Histosols and aquents, ponded Habitat - unclassified Marsh/lowland brush along Star Creek - seasonally flooded</p>														
21	E 6	F 3	5	10	140	50	swamp hardwoods	unevenaged	N		not scheduled	0		
<p><u>Treatment Limiting Factors:</u> Influence zones</p> <p>comnts Fmd : Soils - Munising calcareous substratum - Ensley complex, 0-6% slope Habitat - AVO/ATD on the dryer ground, with FI on the swales. Mixed lowland hardwood/conifer stand. Retain as a buffer along Star Creek when the adjacent stand is clearcut.</p>														
22	E 6	F 3	13	6	90	46	swamp hardwoods	unevenaged	N		20-29 years	0		
<p>comnts Fmd : Soils - Paquin sand 0-3% slope Habitat - ATD/TMC Gently rolling terrain with many wet swales. Red maple is the dominant species in the overstory, while the understory primarily features fir and red maple. Many black cherry reached fairly good size, but now the species is rapidly dying out of the stand. A few white pine are also present. Mixed hardwood (both pulp and logs) includes sugar maple, cherry and yellow birch, while mixed softwood pulp represents hemlock, fir and spruce. Site indices vary significantly within the stand.</p>														
23	A 5	A 3	68	21	6	60	68	aspen (upland)	immature	N	40-49 years	0		
<p>comnts Fmd : Young aspen - more stems are still 4-5" DBH and should become merchantable by next entry. The understory is a mix of aspen and 1-3" DBH hardwoods.</p>														
24	M 3	M 3	2	21	2	0	50	northern hardwood	immature	N	30-39 years	0		
<p>comnts Fmd : Hardwood regen with scattered patches of aspen and open/semi-open grass. Stocking levels/composition vary accordingly, but maple/basswood/cherry/ironwood mix is most prevalent.</p>														
25	M 3	M 3	15	21	2	0	50	northern hardwood	immature	N	30-39 years	0		
<p>comnts Fmd : Hardwood regen with scattered patches of aspen and open/semi-open grass. Stocking levels/composition vary accordingly, but maple/basswood/cherry/ironwood mix is most prevalent.</p>														
26	M 6	M 2	16	8	90	60	northern hardwood	unevenaged	N		20-29 years	0		
<p>comnts Fmd : Well-distributed sugar maple reprod 1-4" DBH. Stand borders H-58.</p>														

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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	Tot. BA								
27	M 6	M 3	95		7	80	60	northern hardwood	unevenaged	N		20-29 years	0	
comnts Fmd : Mixed hardwood with a few surviving aspen, especially in the SE corner of the stand. Site indices & quality vary somewhat but the maples are generally good enough to justify unevenaged management. Black knot is becoming prevalent in the cherry. Mixed hardwood logs includes red maple & basswood.														
28	A 3	A 3	5	12	2	0	70	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Understory is a mix of aspen and hardwood regeneration.														
29	E 6	Q 3	2		7	100	46	swamp hardwoods	unevenaged	N		20-29 years	0	
comnts Fmd : Wet site featuring a mix of lowland timber. Site index is a rough estimate.														
30	E 3	E 3	3	16	1	0	46	swamp hardwoods	immature	N		70-79 years	0	
comnts Fmd : Lowland hardwood regen with just a few young aspen & conifers, and scattered lowland brush.														
31	A 3	A 3	31	16	2	0	70	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd :														
32	Z 0	Z 0	7		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Beaver pond - flooded dead timber														
33	L 0	L 0	3		0	0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Seasonally flooded lowland brush/marsh grass														
34	E 6	E 3	2		7	120	46	swamp hardwoods	unevenaged	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u>														
Other special wildlife habitat consideration (desc. In comments)														
comnts Fmd : Hardwoods on a lower, wetter site than the adjacent upland stand. Species composition is similar but timber quality is significantly reduced. The understory is a mix of hardwood and balsam fir regeneration.														
This stand should be maintained for wildlife habitat adjacent to the wetlands.														
35	Z 0	Z 0	6		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Pond														
36	M 3	M 3	13	22	2	20	46	northern hardwood	immature	N		40-49 years	0	
comnts Fmd : Young hardwoods & a few residuals from the previous stand.														
37	A 3	M 3	26	22	3	20	60	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Young aspen with some residual hardwoods & spruce from the previous stand.														
38	L 0	L 0	1		0	0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd :														
39	A 3	M 3	2	22	3	20	60	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Young aspen with some residual hardwoods & spruce from the previous stand.														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
40	A3	A3	10	23	2	0	77	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : 2-3" aspen with hardwood & scattered balsam fir regen mixed in.														
41	M6	M3	29		8	100	60	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Sugar maple pole stand with a few red maple, yellow birch, basswood, cherry & beech poles mixed in. Scattered aspen also observed in this stand. The M3 understory includes areas of advanced regen 20-30' tall and 3-5" DBH.														
42	M6	M3	53		8	70	60	northern hardwood	unevenaged	N		20-29 years	0	
comnts Fmd : Scattered yellow birch & basswood are also present.														
43	C5	L0	7	101	6	40	29	cedar	immature	N		50-59 years	0	
comnts Fmd : Includes some spruce etc. on the north end of the stand.														
44	N0	N0	5		0	0		marsh	nonstocked	N		not scheduled	0	
45	L0	L0	6		0	0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd :														
46	N0	N0	9		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Marsh/bog/lowland brush mix														
47	Z0	Z0	3		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Pond - part of Stoney Creek. Water levels vary seasonally.														
48	Q5	L0	12	100	8	50	29	mixed swamp conifer	immature	Y		40-49 years	0	
<u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments)														
comnts Fmd : Wet area with slow-growing conifers and a few scattered red maple etc. Maintain for wildlife habitat.														
49	A5	A3	17	19	5	50	70	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Young aspen 3-6" DBH - should fill in to fully-stocked A6 by next entry. The understory includes a lot of hardwood regeneration.														
50	M6	M3	33		8	100	60	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Sugar maple pole stand with a few red maple, yellow birch, basswood, cherry & beech poles mixed in. Scattered aspen also observed in this stand. The M3 understory includes areas of advanced regen 20-30' tall and 3-5" DBH.														
51	M3	M3	2	19	2	0	50	northern hardwood	immature	N		40-49 years	0	
comnts Fmd : Hardwood regeneration														
52	A5	A3	7	19	5	50	70	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Young aspen 3-6" DBH - should fill in to fully-stocked A6 by next entry. The understory includes a lot of hardwood regeneration.														

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					B	Tot. BA								
53	N0	N0	10		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Marsh/bog/lowland brush mix														
54	A5	U0	19		8	60	50	aspen (upland)	unevenaged	N	final harvest	within 0-9 years	3	natural regeneration
comnts Fmd : Semi-open stand with scattered aspen and pockets of hardwoods and conifers. Final harvest should stimulate the aspen clones and produce a stand with better stocking; any mix of regeneration will be acceptable. Mixed softwood includes spruce & fir. Reserve the elm.														
55	Q5	Q1	2		6	40	30	mixed swamp conifer	nonstocked	N		not scheduled	0	
comnts Fmd : Mix of lowland conifers/hardwoods & lowland brush near Stoney Creek, with a small tributary running through the NE portion of the stand. Retain as stream buffer/wildlife habitat. Mixed softwood includes white spruce, hemlock & tamarack; mixed hardwood includes maples, birch etc.														
56	M6	M3	20		7	90	50	northern hardwood	unevenaged	N	thinning	within 0-9 years	2	
comnts Fmd : Flat ground just above the Stoney Creek floodplain supporting a hardwood mix. The understory is a mix of hardwoods and balsam fir. Mixed hardwood logs consist of a few red maple & cherry. Harvest the aspen, poorer quality cherry and any merchantable balsam fir & spruce. Leave the sugar maple, a few mature aspen and best quality cherry, plus any white pine, hemlock & cedar encountered. Wld : Leave hemlock and cedar where present. Leave the conifer clumps along the boundary with stand 57 where hemlock and cedar are dense, and protect larger vernal pools along the same boundary.														
57	A3	A3	49	18	4	20	70	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : A few stems are already merchantable size.														
58	M6	M2	77		8	110	60	northern hardwood	unevenaged	N	thinning	within 0-9 years	2	
comnts Fmd : Sugar maple pole stand on rolling terrain. There are also a few red maple, yellow birch, basswood, cherry & beech poles mixed in. Scattered aspen is also present. The M2 understory includes advanced regen 20-30' tall and 3-5" DBH. Basal area is highly variable. Thin now to promote growth of the best crop trees. Wld : Leave 2-3 beech per acre, some cherry, yellow birch, and all hemlock.														
59	A3	M3	36	19	4	20	70	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Young aspen - a few are already merchantable size. The understory is a mix of more aspen and sugar maple.														
60	M6	M2	4		8	110	60	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Sugar maple pole stand. The M2 understory includes advanced regen 20-30' tall and 3-5" DBH. Basal area is highly variable. Treat along with the hardwood stand to the north in Cmp 177.														
61	C6	Q3	13	94	7	120	27	cedar	immature	N		50-59 years	0	
comnts Fmd : Soils - Carbondale, Lupton and Tawas soils Habitat - TTS/TTM														
62	T5	S2	14	92	6	40	40	tamarack	immature	Y		60-69 years	0	
<u>Treatment Limiting Factors:</u> Too wet														
comnts Fmd : Very wet site. Understory includes lowland brush and scattered conifers, and a few red maple etc. are also present in the stand.														
63	A5	A3	5	19	5	50	70	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Soils - Escanaba-Greylock Complex, 6-15% slopes Habitat - AVO Young aspen - should be fully-stocked A6 next entry. The understory contains aspen & sugar maple plus a few paper birch.														

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					B H	Tot. BA								
64	M 9	M 3	412	13	90	60	northern hardwood	unevenaged	N		20-29 years	0		
comnts Fmd : High Quality - thinned in the mid/late 1990's. Mixed hardwood pulp includes beech, yellow birch and basswood. A few balsam fir are scattered throughout the understory.														
65	Q 6	Q 2	4	96	10	130	31	mixed swamp conifer	mature	Y		40-49 years	0	
<u>Treatment Limiting Factors:</u> Other Dept./Div. procedures or practices (describe in comment)														
comnts Fmd : Mixed lowland timber - retain for diversity/wildlife habitat. Large cedar and spruce are present.														
66	E 6	F 3	8	8	70	46	swamp hardwoods	unevenaged	N		20-29 years	0		
comnts Fmd : Hardwoods on a wet site - possibly inoperable. Sugar maple remains dominant, but it is much lower quality than the maple found on the surrounding uplands. This stand is probably most valuable if left undisturbed for wildlife habitat. White ash, yellow birch and red maple are also present. The understory is a mix of maples, balsam fir and lowland brush.														
67	Z 0	Z 0	2		0		water	nonstocked	N		not scheduled	0		
comnts Fmd : Pond - headwaters of Stoney Creek														
68	X 0	X 0	2		0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0		
comnts Fmd : H-58 right-of-way														
401	G 0	G 0	2		0	60	grass	nonstocked	N		not scheduled	0		
402	G 0	G 0	12		0	60	grass	nonstocked	N		not scheduled	0		
comnts Fmd : Semi-open grassland with scattered clumps of trees														
403	G 0	G 0	4		0	60	grass	nonstocked	N		not scheduled	0		
comnts Fmd : Semi-open grassland with scattered clumps of trees														
Total Acres..... 1999														