

\* 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.		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	B Tot. BA								
1	F 6	F 3	7	83	9	90	48	spruce-fir (uplands-including upland black spruce)	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u>                      Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Removal cut with Reserves. Retention for this harvest should be all cedar, red &amp; white pine, trace species including yellow birch, black ash, perhaps red maple, and any potential or actual wildlife cavity prone den trees/ nesting site trees. If additional retention trees are needed, birch &amp; white spruce seed trees could be marked. Strive for at least 3% retention. Dead standing snags should be left if not a safety concern. This harvest operation would require frozen winter access, using the abandoned ELF cleared right of way. No creek crossing involved. I consider this as medium priority in that the stand has been regenerating naturally due to significant blowdown in the past decade. Open areas are regenerating with spruce &amp; fir, and the white spruce seems to be more windfirm than either fir or black spruce. The fir has been dying out of this stand. Down woody debris is abundant. If markets are good and demand warrants, the timber here is of good quality (softwood).</p> <p>Wld : Use Warren's retention notes, including leaving some spruce seed trees. Located in the NENE of Sec 21, east of ELF row.</p>														
2	C 6	Q 2	18	107	7	80	28	cedar	immature	N		not scheduled	0	
<p>comnts Fmd : Does not appear to be a productive site. Cedar appears stunted, of fence post quality. Tag alder throughout understory. Only a trace of other swamp conifers. Stand is probably best suited for wildlife puposes. Some water movement in swamp appears to be flowing westward. Also, see locked box comment on Cmpt header. Perhaps stands 2 &amp; 27 could be combined - it just seemed that #27 is a bit more productive site with larger &amp; better qauity timber, and perhaps due to better drainage being nearer to the creek.</p> <p>Wld : Located in the E1/2NE &amp; NWNE of Sec 21, west of ELF row.</p>														
3	A 3	A 3	37	16	3	10	70	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Was commercially cut in 1990-91 by Nickles Logging Co. of Norway, under permit # 3-89-01, "Martell's Lake Block".All cedar and cherry was left as well as 1 &amp; 2 stick spruce &amp; fir. Spruce/fir regen is mixed within the aspen also. A couple of small cedar inclusions in the north part, south &amp; west of trail road. Steel gate where road enters private (Irish Acres).</p> <p>Wld : Located in the SENE &amp; NESE of Sec 21, east of ELF row.</p>														
4	R 8	F 1	5		15	50	62	red pine	unevenaged	N		not scheduled	0	
<p>comnts Fmd : Stand located on west edge of un-named pond. Will be managed mostly for aesthetics &amp; wildlife, and to maintain a riprarian buffer here.</p> <p>Wld : Located in the NESE of Sec 21.</p>														
5	A 2	A 2	13	7	1	20	75	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Harvested in 1999: TS#110-99-01. "Martell's Lake ELF Sale" cut by Oro Logging (Tom St.John) using sub-contractor - Farrell Bros. From Crystal Falls. Trees length operation with hydro-axe harvester &amp; slasher. Oak, cherry, and conifers other than jack pine were left. Access to this stand was from the northeast corner of the stand using a temorary road - bermed upon completion. We had to avoid using the ELF row. Now in 2007, besides the oak &amp; pine residual, the understory is adequately stocked with aspen (A2 to A3) with traces of other species such as red maple and conifers. Birch failed to restock this site and most seed trees are now dead or dying. The skid roads (it appears to be a gravel soil) have seeded in with red pine, and some balm present also. Terrain in this small stand is quite rugged - ridges &amp; potholes.</p> <p>Wld : Located in the SESE of Sec 21, north &amp; east of ELF row.</p>														
6	A 3	A 3	15	7	1	0	75	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Harvested in 1999-2000: TS#110-99-01. "Martell's Lake ELF Sale" cut by Oro Logging (Tom St.John) using sub-contractor - Farrell Bros. From Crystal Falls. Tree length operation with hydro-axe harvester &amp; slasher. Oak, cherry, and conifers other than jack pine were left. Access to this stand was both from the south on trail road shown on sale map and another landing was situated just north of the research red pine patch on east side of ELF row.</p> <p>Wld : Located in the W1/2NE of Sec 28, east of ELF row.</p>														

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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								
7	B 6	F 1	22	73	8	80	63	paper birch	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Scenic values/visual values                      Influence zones                      Water quality/bmps</p> <p>comnts Fmd : SCA stand. Protects the riparian values of both Chain Lake and the west branch Schwartz Creek. Essentially a ridge between the two. Would not be easily accessible to logging east of the outlet creek from the lake. Schwartz Creek is a brook trout stream further downstream and has had Fisheries crews breaking beaver dams on it in past years. Natural succession is currently moving this stand toward more conifer and red maple cover type.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the NESE of Sec 28 for the most part, south of Chain Lakes.</p>														
8	Q 6	F 2	11		8	70	36	mixed swamp conifer	unevenaged	N		not scheduled	0	
<p>comnts Fmd : Heavily stocked with cedar in places (C6 cover type). Other parts are variable in species &amp; stocking. Significant older windthrown timber in places also. North part near lake is almost noncommercial timberland - alder &amp; brush, etc.</p> <p>Wld : Located in the NWSE of Sec 28 for the most part.</p>														
9	A 3	A 3	63	17	3	10	72	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Was commercially cut in 1989-90 by Mark Johnson of Foster City, under permit #11-89-01, "Porterfield Lake Aspen Block". An average of 5.3 oak per acre were marked with green paint to save for mast production (321 trees total). Also, two small areas totaling 3.82 acres and drawn on sale map were left uncut for budding grouse, and 3.6 acres on the northeast side of sale bordering the swamp (now part of stand #7) were left outside of the sale boundary for similar wildlife and aesthetic reasons. In Dec 2006, I found significant oak saplings in this stand, at least along the edges where it borders stand #10. Red maple stump sprouts common also.</p> <p>Wld : Located in the SE1/4 of Sec 28.</p>														
10	A 6	M 1	37	76	10	120	72	aspen (upland)	high risk	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Final Harvest with Reserves. Oak was the featured type here last entry, however a much more extensive sampling and some expansion of the type now reveals an average of only 20 sq.ft/acre of oak, versus about 50 sq.ft/acre for aspen. The aspen occurs in clones of heavy stocking (100 sq.ft/acre plus), with other areas or patches of sparse aspen where oak can be found. Retention : we will leave all oak for wildlife, as well as most, if not all of the pine in this stand. In addition, a number of those aspen or birch functioning as potential den trees (large crowns, cavities, dead limbs or tops, open seams, etc.) should be marked to save for in-stand retention as well. The extreme northeast corner of the stand contains an inclusion of mostly birch which would offer a small area for in-stand retention for both aesthetics &amp; wildlife. ORV trail is present in stand - protect with appropriate VMS specs. Do not alter or straighten motorcycle trail since a winding route helps to keep speed in check.</p> <p>Wld : Sparse, erratic stocking of red oak pole clumps. Advance regeneration of red oak is very common across most areas of site. Red oak recruits range in size from 1 to 5 feet in height. Deer browse damage to this oak regen is extremely infrequent and not severe where present. Retain all oak. Do not cut white pine, cherry, or spruce. Leave at least 1/2 of the red pine. Exclude the NE corner of stand where white birch dominates. Leave on average 2 to 3 white birch clumps per acre. Buffer vernal areas. Wildlife personnel will assist with retention field work if needed. Located in the SESW &amp; W1/2SE of Sec 28 for the most part.</p>														
11	R 9	W 1	10		14	140	62	red pine	unevenaged	N	thinning	within 0-9 years	1	
<p>comnts Fmd : Thinning with Reserves. Combine with cutting of stand #10 for most efficient and practical timber sale purposes. Retention: Leave any oak present, plus trace species such as white spruce, white pine, fir. Potential wildlife den or nest trees will be left as well. Red pine will be marked for essentially a light thinning where needed to improve spacing and release crowns of residual trees. ORV trail present in both stands, but can be protected by VMS specs. Do not alter or straighten route of this motorcycle trail. A winding route is necessary to keep speeds in check.</p> <p>Wld : As Warren proposes, leave oak, white spruce, white pine, and fir. Leave tamarack and cherry as well. Buffer vernal wetlands. Leave a representation of larger diameter red pine. Located in the E1/2SW &amp; W1/2SE of Sec 28.</p>														

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Stand	Cover Type-Size 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								
12	R 6	F 1	37	10	120	62		red pine	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Former campground road forms the north boundary of stand. Delay cut till period 1 for aesthetic purposes, even though the aspen is mature. Red pine is the mgt objective and is quite healthy at present. Most of the aspen is in the southwest portion. Next cut should be a light thinning of the pine to benefit spacing and release crowns where needed. Keep aesthetics in mind by leaving some birch &amp; maple also. ORV (motorcycle) trail travels through east side of stand. Most of the red pine is sawlog size, but the total pulpwood BA of all species combined exceeds the sawlog BA. Terrain has some ridges &amp; slopes.</p> <p>Wld : Located in the S1/2SW of Sec 28.</p>														
13	R 8	J 2	19	7	14	40	60	red pine	two aged	N		not scheduled	0	
<p>comnts Fmd : Was commercially cut in Spring of 2000, TS#111-99-01. "Porterfield Lake Jack Pine Sale", was cut by Holli Forest Products. Most of the red pine was left ( a few marked for thinning to improve spacing), and all white pine, spruce, and fir was left. An FTP #C31-421 was written for herbiciding, trench, and hand plant red pine. Steve Arkens reviewed the site and recommended to manage for natural regen here due to the difficulty of trenching in such a small acreage with an existing residual stocking that is already quite significant. Thus the FTP was withdrawn. We will accept a mixture of red pine, jack pine, and aspen with other trace species such as fir. Currently is a two-aged stand with residual red pine and some spruce, with new jack pine regeneration forming an understory. Also traces of aspen regen in patches, and some fir, spruce, maple, etc.</p> <p>Wld : Located in the SENW and NESW of Sec 28 for the most part, both sides of Porterfield Lake Road.</p>														
14	A 6	F 1	30	69	10	80	75	aspen (upland)	high risk	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Final harvest with Reserves. For retention purposes and to enhance the aesthetics here when cutting, consider leaving most or all of the birch, all oak, cherry, and conifer, and at least some of the maple for Fall color. This should comprise at least 5% retention. Patches can be left if needed to reach this goal.</p> <p>Wld : Per Warren's comments, leave all white birch, oak, cherry, and conifers. Leave several red maple per acre. Located in the E1/2NW &amp; W1/2NE of Sec 28, and SWSE of Sec 21, between the Porterfield Lake Road and the ELF row.</p>														
15	A 6	F 1	163	33	6	70	55	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : Stand was cut commercialy in 1973-74 by the Escanaba Pulp Co., permit #13/73A, "Porterfield Lake Block". All oak was left, and only marked red &amp; white pine was cut. This was followed by a KG treecutter treatment of the residual trees in 1975 - FTP #W3-505. This was to target areas with 25 sq.ft/acre or more of residual basal area, but leaving the oak, red &amp; white pine. Volume when sale was cut was averaging only 9.8 cds/acre of aspen, but about 13 cds/acre of all species.</p> <p>Wld : Located in the NW1/4 &amp; NWSW of Sec 28, the SWSW &amp; SWSE of Sec 21, and S1/2NE of Sec 29.</p>														
16	A 3	A 3	18	17	4	10	70	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Was commercially cut in summer of 1990 by Minerick Logging, Inc., under permit # 006-89-01, "Wilson Creek Block". All cherry was left and a 2 inch cutting spec was used in the SWSW only. Access from the west on existing trail road leading to a private hunting camp.</p> <p>Wld : Located in the W1/2SW of Sec 21, west of Wilson Creek.</p>														
17	A 3	A 3	54	17	4	10	65	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Was commercially cut in Spring of 1990 by Minerick Logging, Inc., under permit # 006-89-01, "Wilson Creek Block". All cherry was left and a 2 inch cutting spec was used. Access was from the west across Mead plantation (road bermed upon completion).</p> <p>Wld : Located in the N1/2NE &amp; SWNE of Sec 29, north of Wilson Creek.</p>														
18	R 8	R 2	25		12	50	60	red pine	unevenaged	N		not scheduled	0	
<p>comnts Fmd : Water influence zone along Wilson Creek. High value for aesthetics and other riparian values. Potential SCA stand if desired. Not designated at present in 2007.</p> <p>Wld : Located in the N1/2NE &amp; SWNE of Sec 29, north of Wilson Creek.</p>														
19	A 3	A 3	34	17	4	20	65	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Was commercailly cut in 1990 by Minerick Logging, Inc. under permit # 013-89-01, "Michigamme River Block". All oak was left and a 2 inch cutting spec was used. Access was from the northeast corner of the stand. A riparian buffer was left which is now stand #20.</p> <p>Wld : Located in the N1/2SE of Sec 19, east of Michigamme River. Also described as Gov Lot 5.</p>														

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					B	Tot. BA								

20	F 6	F 2	12	9	120	65	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)	Y			not scheduled	0
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Treatment Limiting Factors:

- Potential or designated old growth
- Scenic values/visual values
- Influence zones

comnts Fmd : SCA stand, providing a riparian buffer to the Michigamme River for BMP, aesthetic, and wildlife purposes and benefits.

Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the N1/2SE of Sec 19, east of Michigamme River.

21	B 6	F 1	32	70	9	90	55	paper birch	old growth (potential or actual)	Y		not scheduled	0
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Treatment Limiting Factors:

- Scenic values/visual values
- Influence zones
- Potential or designated old growth
- Historical and archeological sites

comnts Fmd : SCA stand, riparian buffer zone, approx 1/2 mile of frontage on Michigamme River. The lowland bordering river has "white oak" present, a unique species in this area. I found one oak that is 30 inches in dbh. Birch is dying out, will be replaced by conifer (white pine, spruce/fir) & red maple. A patch of old jack pine is present on hilltop on east end of this stand, east of road. Extreme west end of stand has red/white pine and fir. A very scenic and valuable recreational (for canoeing/fishing) type parcel. Timber is marginal. Good diversity though. River is very wide in places - 2 chains or so.

Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the S1/2SE of Sec 30, south & east of Michigamme River, also described as Gov Lot 8.

22	Z 0	Z 0	19			0		water	nonstocked	N		not scheduled	0
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comnts Fmd : Porterfield Lake - origin of name unknown. There existed a sawmill town of Floodwood in the 1890's (per a book written by Ken Salo & Jim Kippola about the history of the Witch Lake area - in 2006) in Dickinson Co. near what is now M-95 south of the Michigamme River, back when the pine was being cut in this area. Thus the name may have been given to the lake around that time. A State Forest Campground existed on this lake, built in the 1980's and closed in summer of 1992. A local campowner had told me the deepest spot in the lake is 38 feet in the west central part of the lake.

Wld : Located in the W1/2SW of Sec 28 for the most part.

23	S 5	S 1	7	90	8	50	40	black spruce-swamp	old growth (potential or actual)	Y		not scheduled	0
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Treatment Limiting Factors:

- Influence zones

comnts Fmd : SCA stand. Riparian buffer to Wilson Creek. Trace of cedar, pine, and hwd also.

Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptile, birds, and aquatic fauna. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the W1/2SW of Sec 21, west side of creek.

24	R 9	F 1	12	9	100	64		red pine	unevenaged	N		not scheduled	0
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comnts Fmd : This is the site of the former Porterfield Lake State Forest Campground, built circa early 1980's, and closed for economic reasons in the summer of 1992. Amount of use received did not justify cost of maintenance, etc. However, this site remains a valuable aesthetic resource which we can hold in reserve for now. It will be treated as an SCA stand even though not designated at this time. See locked box comment on Cmpt header.

Wld : Located in the SW1/4 of Sec 28.

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					D B	Tot. BA								
25	R 6	R 1	2	22	6	120	75	red pine	immature	N		not scheduled	0	
<p>comnts Fmd : This was a research area set up circa 1985 by MTU to monitor growth effects of Project ELF (abandoned about 2005). One of two such research stands - the other stand is #69.</p> <p>Wld : Located in the NWNE of Sec 28.</p>														
26	R 9	F 1	15		9	70	62	red pine	unevenaged	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Scenic values/visual values                      Influence zones                      Historical and archeological sites</p> <p>comnts Fmd : Potential SCA stand, not listed as of 2007. We will treat this stand as though it were an SCA. Aesthetics, riparian buffer, biodiversity, low key recreation, wildlife, etc. are the foremost values here. Stand is not entirely uniform. Red pine dominates in the east half, but the western portion has increased spruce / fir with some birch &amp; maple. White pine present also. Portions of the immediate lake frontage are swampy with cedar present, and seeps whereby groundwater surfaces to flow into the lake. See locked box comment on Cmpt header. Some evidence of beaver chewing in stand.</p> <p>Wld : Located in the N1/2SW of Sec 28, adjacent to Porterfield Lake.</p>														
27	C 6	Q 2	26	107	8	90	30	cedar	immature	N		not scheduled	0	
<p>comnts Fmd : Perhaps stands 2 &amp; 27 could be combined - it just seemed that #27 is a bit more productive site with larger &amp; better quality timber, and perhaps due to better drainage being nearer to the creek. Stand is valuable for wildlife purposes, such as thermal cover, even though it is not used as a deer yard at this point in time. I believe historically, some deer did winter in the area. BUFFER THE CREEK.</p> <p>Wld : Located in the NWNE of Sec 21.</p>														
28	R 8	R 1	11		16	60	65	red pine	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Riparian buffer for Chain of Lakes. Somewhat of a low, east-west ridge. Pine is variable in stocking, but is the dominant specie overall. Provides scenic values to this water influence zone.</p> <p>Wld : Special conservation area. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the N1/2SE of Sec 28, for the most part.</p>														
29	J 6	J 1	6	35	6	80	60	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : This stand resulted from a wildfire in Spring of 1972. Permit # 3-72 was issued to Earl St. John Jr. for the purpose of cutting all jack pine killed by this fire as well as a few additional marked red &amp; jack pine. Sale size was 10 acres so it included part of the surrounding area as well.</p> <p>Wld : Located in the exact center of Sec 28.</p>														
30	A 3	A 3	44	17	4	30	75	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Was commercially cut in Spring 1990, by T &amp; T Logging (St. John Forest Prod. Inc) under permit #26-89-01, "Martell's ELF Research Block". All oak was left (18 sq.ft/acre in 1990), and a 2 inch cutting spec was used. Access was from the southwest corner of the stand on a newly built temporary road, bermed after completion. This avoided use of the ELF row.</p> <p>Wld : Located in the NE1/4 of Sec 28.</p>														
31	C 6	Q 2	1	107	8	90	30	cedar	immature	N		not scheduled	0	
<p>comnts Fmd : Stand is valuable for wildlife purposes, such as thermal cover, even though it is not used as a deer yard at this point in time. I believe historically, some deer did winter in the area. Possibly a small bit of high ground here.</p> <p>Wld : Located in the N1/2NE of Sec 21.</p>														

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					B	Tot. BA								
32	F 6	F 3	2	83	9	70	48	spruce-fir (uplands-including upland black spruce)	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u>                      Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Removal cut with Reserves. This stand will be included with stand #1 and 35 for sale purposes. Retention here is quite limited, but leave any cedar &amp; pine present, and any hardwoods. Strive for a retention goal of at least 3% for the sale. Dead standing snags should be left if not a safety concern. This harvest operation would require frozen winter access, using the abandoned ELF cleared right of way. No creek crossing involved. I consider this as medium priority in that the stand has been regenerating naturally due to significant blowdown in the past decade. Open areas are regenerating with spruce &amp; fir, and the white spruce seems to be more windfirm than either fir or black spruce. The fir has been dying out of this stand. Down woody debris is abundant. If markets are good and demand warrants, the timber here is of good quality (softwood). Lastly, an uncut buffer of at least 100 ft. should be left between pond on west side and the cutting.</p> <p>Wld : Retain cedar, hemlock, and some spruce. Located in the N1/2NE of Sec 21, west of ELF row.</p>														
33	S 5	S 2	1	75	7	40	35	black spruce-swamp	immature	N		not scheduled	0	
<p>comnts Fmd : Small spruce swamp situated in sort of a pothole. Not especially a commercially viable stand but is valuable for wildlife and could be credited for retention purposes.</p> <p>Wld : Located in the SESE of Sec 21.</p>														
34	S 6	S 2	2	75	7	80	35	black spruce-swamp	immature	N		not scheduled	0	
<p>comnts Fmd : Small patch of swamp, runs mostly to spruce but other species present also (tamarack, cedar, white pine). Not especially a commercially viable stand but is probably more valued for aesthetics and wildlife and could be credited for retention purposes. The Section corner falls within this swamp, northeast corner right on the edge of the high ground, I believe, though map is slightly off (MIRIS).</p> <p>Wld : Located in the SESE of Sec 21, and NENE of Sec 28.</p>														
35	F 6	F 3	2	83	9	70	48	spruce-fir (uplands-including upland black spruce)	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u>                      Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Removal cut with Reserves. This stand will be included with stand #1 for sale purposes. Retention here is quite limited, but leave any cedar &amp; pine present, and any hardwoods. Strive for a retention goal of at least 3% for the sale. Dead standing snags should be left if not a safety concern. This harvest operation would require frozen winter access, using the abandoned ELF cleared right of way. No creek crossing involved. I consider this as medium priority in that the stand has been regenerating naturally due to significant blowdown in the past decade. Open areas are regenerating with spruce &amp; fir, and the white spruce seems to be more windfirm than either fir or black spruce. The fir has been dying out of this stand. Down woody debris is abundant. If markets are good and demand warrants, the timber here is of good quality (softwood).</p> <p>Wld : Use Warren's retention notes. Also, leave hemlock and spruce seed trees. Located in the NENE of Sec 21, west of ELF row.</p>														
36	C 6	Q 2	15	107	7	80	28	cedar	immature	N		not scheduled	0	
<p>comnts Fmd : Does not appear to be a productive site. Cedar appears stunted, of fence post quality. Tag alder throughout understory. Only a trace of other swamp conifers. Stand is probably best suited for wildlife puposes. Some water movement in swamp appears to be flowing westward. Two tiny (half acre each) islands of high ground inclusions have some birch and spruce poletimber with F3 regen on ground. Also, see locked box comment on Cmpt header.</p> <p>Wld : Located in the E1/2NE of Sec 21, east of ELF row.</p>														
37	C 6	Q 2	2	107	8	90	30	cedar	immature	N		not scheduled	0	
<p>comnts Fmd : Stand is valuable for wildlife purposes, such as thermal cover, even though it is not used as a deer yard at this point in time. I believe historically, some deer did winter in the area. Possibly a small bit of high ground here.</p> <p>Wld : Located in the NENE of Sec 21.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Age	Acrs	avg.		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	B Tot. BA								
38	A 3	A 3	16	16	3	10	70	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Was commercially cut in 1990-91 by Nickles Logging Co. of Norway, under permit # 3-89-01, "Martell's Lake Block". All cedar and cherry was left as well as 1 &amp; 2 stick spruce &amp; fir.</p> <p>Wld : Located in the SENE, NESE; SWSE of Sec 21, west of ELF row.</p>														
39	R 8	F 2	11		12	50	60	red pine	unevenaged	N		not scheduled	0	
<p>comnts Fmd : Water influence zone along Wilson Creek. High value for aesthetics and other riparian values. Potential SCA stand if desired. Not designated at present in 2007.</p> <p>Wld : Located in the S1/2NE of Sec 29, south of Wilson Creek.</p>														
40	A 3	A 3	15	7	1	0	68	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Harvested in 2000. TS#110-99-01, "Martells Lake ELF Sale". Cut by Oro Logging (St, John Forest Prod.) Note that a 1.4 acre growth research plot (now stand #88 - immediately adjacent to and on the south side of the ELF row) that is monitored by Michigan Tech. University was excluded from this sale. All oak, cherry, and conifer other than jack pine was left.</p> <p>Wld : Located in the NENE of Sec 28, south of ELF row.</p>														
41	A 6	F 1	3	71	10	90	75	aspen (upland)	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                  Potential or designated old growth                  Too steep                  Other special wildlife habitat consideration (desc. In comments)</p> <p>comnts Fmd : SCA stand. Part of riparian buffer complex surrounding Chain of Lakes. Was left when stand #30 was cut. Very tall large tooth aspen situated on a steep slope. Portion bordering cedar swamp has quite thick fir seedling/sapling understory. Fits in well as a component of this SCA complex around Chain Lakes. Provides for potential old growth site though natural succession will eliminate aspen here eventually - maple and conifer will take over. Also wildlife benefits - mast, nest and /or den trees, etc.</p> <p>Wld : Special conservation area. Promote habitat elements such as suprcanopy trees, numerous large snags, abundnat and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the SENE of Sec 28.</p>														
42	D 0	D 0	1		0	0	20	treed bog	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Part of riparian buffer complex around Chain of Lakes.</p> <p>Wld : Special conservation area. Located in the NESE of Sec 28, adjacent to Chain Lakes.</p>														
43	S 6	S 2	4	75	8	70	40	black spruce-swamp	immature	N		not scheduled	0	
<p>comnts Fmd : A small pocket of swamp probably more valued for wildlife benefits than as a timber resource. Provides for diversity and retention values also.</p> <p>Wld : Located in the S1/2NE of Sec 29.</p>														
44	C 6	F 1	4		8	120	37	cedar	old growth (potential or actual)	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                  Potential or designated old growth                  Influence zones                  Cedar or Hemlock cutting restraints</p> <p>comnts Fmd : SCA stand. Part of riparian, scenic buffer around Chain Lakes. Has a trace of other species, - fir, balm, birch, &amp; a few super tall spruce. Seeps of ground water in the stand as well as a defined creek flowing southerly in the east end of stand. This may be the outlet creek from Martells Lake. Beaver had killed some timber in northeast part or perhaps in the adjacent Section 27.</p> <p>Wld : Special conservation area. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the SENE of Sec 28.</p>														

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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 B H	Tot. BA								
45	S 5	S 2	4	73	8	50	40	black spruce-swamp	immature	N		not scheduled	0	
<p>comnts Fmd : Typical black spruce swamp with largest timber on edges grading into smaller diameter &amp; heights in center. Some pine &amp; aspen on edges as well. Stand provides more value for wildlife &amp; aesthetics than it will for timber value.</p> <p>Wld : Located in the SESW of Sec 28, east of Porterfield Lake Road.</p>														
46	F 6	F 2	6	86	8	120	44	spruce-fir (uplands-including upland black spruce)	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Seed Tree cut with Reserves. For the most part, this is not swamp. Could be summer cut. Ranges from high ground to semi- high ground on west side, and grades into smaller diameter spruce and leatherleaf swamp on southwest end (good small area to leave for stand retention). "Shim-Shack" camp road is one boundary of this stand. Their actual camp bldg is within a chain of the property line. Leave individual or groups of seed trees (spruce esp.) Leave some aesthetics species along road - red &amp; white pine, white spruce, birch, maple, etc.</p> <p>Wld : Located in the NWSW of Sec 28, adjacent to Private land.</p>														
47	C 6	F 1	2		9	130	37	cedar	old growth (potential or actual)	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Potential or designated old growth Influence zones Cedar or Hemlock cutting restraints</p> <p>comnts Fmd : SCA stand, part of riparian buffer for lake system. Strong ground water seep in the north end with a small creek with substantial flow emptying into lake. Variety of sizes &amp; ages of cedar - some old remnant cedar. Also some patchy blowdown. Spruce &amp; fir seedlings, and these take off whenever an opening occurs.</p> <p>Wld : Special conservation area. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the SWNE of Sec 28, at west end of Chain Lakes.</p>														
49	R 9	W 1	9		14	130	62	red pine	unevenaged	N	thinning	within 0-9 years	1	
<p>comnts Fmd : Thinning with Reserves. Combine with cutting of stand #10 and #11 for most efficient and practical timber sale purposes. Retention: Leave any oak present as well as trace species such as white spruce, white pine, fir and any potential den/nest trees. Red pine will be marked for essentially a light thinning where needed to improve spacing and release crowns of residual trees. Save some birch &amp; maple for aesthetics where appropriate. Small swamp inclusions should be withdrawn from sale area for diversity &amp; in-stand retention purposes. <b>RETAIN BLACK SPRUCE AND TAMARACK.</b></p> <p>Wld : Retain oak, spruce, white pine, cedar, fir, and tamarack. Save some white birch and maple. Small swamp inclusions should be withdrawn from sale. Leave representative distribution of larger size-class red pines. Located in the NWSE of Sec 28.</p>														
50	A 5	A 2	18	43	8	50	55	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : Stand was non-commercially cut by Wildlife Division with a KG treecutter blade in Jan.1964 under FTP no.III-8. Instruction was to not cut spruce or balsam. Approx 43 acres were treated.</p> <p>Wld : Located in the S1/2SE of Sec 21, west of ELF row.</p>														
51	L 0	L 0	3			0	20	lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Riparian buffer. Tag alder, lowland brush, periodically flooded by beaver. Wilson Creek flows through stand.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Allow to function undisturbed as important component of natural watershed. Located in the SWNE of Sec 29.</p>														

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Stand	Cover Type-Size 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								
52	L 0	L 0	10			0	20	lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Riprarian buffer. Tag alder, lowland brush, periodically flooded by beaver. Wilson Creek flows through stand.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Allow to function undisturbed as important component of natural watershed. Located in the NE1/4 of Sec 29 , central part.</p>														
53	A 6	F 1	19	43	7	80	57	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : Stand in good health. Can hold. Some sparse areas esp in south end, but these will probably fill in with other species (conifer, etc).</p> <p>Wld : Located in the E1/2SW of Sec 28 for the most part.</p>														
54	A 5	A 2	25	43	8	50	55	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : Stand was non-commercially cut by Wildlife Division with a KG treecutter blade in Jan.1964 under FTP no.III-8. Instruction was to not cut spruce or balsam. Approx 43 acres were treated. Thus presently in 2007, a few mature conifers (jack pine &amp; spruce) as well as a few larger aspen, are located near the road. But these serve aesthetic and wildlife purposes, and will be held as retention elements at least until the stand undergoes final harvest.</p> <p>Wld : Located in the E1/2SE of Sec 21, east of ELF row.</p>														
55	R 8	R 2	2			12	50	60	red pine	old growth (potential or actual)	N		not scheduled	0
<p><u>Treatment Limiting Factors:</u>                      Scenic values/visual values                      Influence zones</p> <p>comnts Fmd : SCA stand. Riprarian buffer. A small island of high ground, surrounded by wetland.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the NENE of Sec 29.</p>														
56	Z 0	Z 0	2			0	0		water	nonstocked	N		not scheduled	0
<p>comnts Fmd : Rather large beaver pond on Wilson Creek. Valuable for waterfowl, furbearers, etc, as well as aesthetics.</p> <p>Wld : Located in the NENE of Sec 29.</p>														
58	Z 0	Z 0	1			0			water	nonstocked	N		not scheduled	0
<p>comnts Fmd : Beaver pond on Wilson Creek. Can be larger or smaller at any point in time depending on beaver activity.</p> <p>Wld : Located in the SWNE of Sec 29.</p>														
59	Z 0	Z 0	2			0	0		water	nonstocked	N		not scheduled	0
<p>comnts Fmd : Small two &amp; a half acre pond known locally as "Eckloff's Pond". Quite scenic surrounded by a fringe of treed bog /black spruce and then ridges of birch &amp; pine.</p> <p>Wld : Located in the SWSW of Sec 28, west of Porterfield Lake Road.</p>														
60	Z 0	Z 0	1			0	0		water	nonstocked	N		not scheduled	0
<p>comnts Fmd : Tiny one acre pond. Quite scenic surrounded by a fringe of treed bog /black spruce and then a ring of red/white pine on the high ground. In 2007 there was a small amount of fresh beaver chewing here. ORV trail passes around the west &amp; north side of this pond.</p> <p>Wld : Located in the SESW of Sec 28, east of Porterfield Lake Road.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Age	Acrs	avg.		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	B								
61	Z 0	Z 0	20	0	0			water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : "Chain of Lakes" sort of three small inter-connected lakes. They appear to be quite shallow, but with clear, probably spring-fed water source. The outlet through a beaver dam on the south side of the largest lake is actually the headwaters of the west branch of the Schwartz Creek. Original GLO survey notes say that the 1/4 corner between Sec 28/27 falls in this lake. Clayton Schooley, Area Forester in Ishpeming through the early 1960's, had proposed a campground on these lakes (but it never happened).</p> <p>Wld : Located in the NESE &amp; S1/2NE of Sec 28.</p>														
62	Z 0	Z 0	3	0	0			water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : An un-named, shallow pond which probably is vernal in character. Our MIRIS map has the Section line a bit too far to the east, I believe, so the actual acreage is probably less. This is none the less valuable habitat for some living plants &amp; animals and should be buffered during any nearby cut.</p> <p>Wld : Located in the NESE of Sec 21.</p>														
63	Z 0	Z 0	2	0	0			water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Small beaver pond on Wilson Creek (the pond is small, not the beaver). Quite likely could be associated with springs or ground water seeps.</p> <p>Wld : Located in the NWNE of Sec 21.</p>														
64	Z 0	Z 0	3	0	0			water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This beaver pond on Wilson Creek is fairly recent. It did not show up on TIF imagery, but is present on the newer SID imagery.</p> <p>Wld : Located in the NWSW of Sec 21.</p>														
65	L 0	L 0	25		0	20		lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Riparian buffer. Tag alder, lowland brush, periodically flooded by beaver. Wilson Creek flows through stand. There was a rather large beaver dam present on the TIF imagery, but no longer flooded on the newer SID imagery. The newest dam was further upstream at site of present stand #64 - Z. Thus, changes do occur from one entry year to the next.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Allow to function in undisturbed state as important component of natural watershed. Located in the W1/2SW of Sec 21, &amp; NWNW of Sec 28.</p>														
66	S 5	S 1	1	90	8	50	40	black spruce-swamp	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Influence zones</p> <p>comnts Fmd : SCA stand. Riparian buffer to Wilson Creek.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the NWSW of Sec 21, east side of creek.</p>														
67	Z 0	Z 0	8		0			water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Beaver pond on Wilson Creek. Can be larger or smaller at any point in time depending on beaver activity.</p> <p>Wld : Located in the S1/2NE of Sec 29.</p>														
68	S 5	S 1	5	75	7	50	40	black spruce-swamp	immature	N		not scheduled	0	
<p>comnts Fmd : Small spruce swamp. Has west 1/16th corner (IP &amp; cap) between Sec 21/28 located in this stand. Also, this stand has a tiny half acre bog within it, and a spot of open water within that.</p> <p>Wld : Located in the SWSW of Sec 21, &amp; N1/2NW of Sec 28.</p>														

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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								
69	R 6	R 1	1	22	6	120	75	red pine	immature	N		not scheduled	0	
<p>comnts Fmd : This was a research area set up circa 1985 by MTU to monitor growth effects of Project ELF (abandoned about 2005). Originally this was planted across the entire ELF row, but in recent years they cleared the south edge to maintain the right of way since it is intact on the TIF imagery, but gone on the SID imagery. Leave this stand in 2009 since we are cutting stand #85 adjacent to the north. This will aid in buffering this cut, visually and for wildlife cover. One of two such research stands - the other stand is #25</p> <p>Wld : Located in the NENE of Sec 28.</p>														
70	N 0	N 0	10			0		marsh	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Riparian buffer. Marsh, formerly flooded as a beaver pond.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Allow to function in undisturbed state as important component of natural watershed. Located in the NENE of Sec 29 &amp; NWNW of Sec 28.</p>														
71	A 3	A 3	4	17	4	10	70	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Was commercially cut in summer of 1990 by Minerick Logging, Inc., under permit # 006-89-01, "Wilson Creek Block". All cherry was left and a 2 inch cutting spec was used in the SWSW only. Access from the west on existing trail road leading to a private hunting camp.</p> <p>Wld : Located in the extreme northwest corner of the NWSW of Sec 21, west of Wilson Creek.</p>														
72	R 8	R 1	10		16	60	64	red pine	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Riparian buffer. Borders Chain Lakes. Terrain is comprised of ridges and ravines or potholes. Present also is a trace of aspen, fir, maple; oak. Even a patch of cedar along the lake shore in a bay. Old evidence of beaver chewing - thus the beaver have eliminated aspen from the stand or nearly so. Red pine is not uniform throughout, but rather patchy in places.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the S1/2NE of Sec 28, north side of Chain Lakes.</p>														
73	R 8	R 1	12		16	60	64	red pine	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Riparian buffer. Borders Chain Lakes. Terrain is comprised of ridges and ravines or potholes, especially in the east end, and this could be a general appraisal of all the SCA acreage surrounding these lakes. Present also is a trace of aspen, balsam, fir, spruce, maple; oak. Old evidence of beaver chewing - thus the beaver have eliminated aspen from the stand or nearly so, except in the northeast where some birch also persists. Pine is heaviest in the west end and nearer to the lake.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the SENE of Sec 28, north side of Chain Lakes.</p>														
74	L 0	L 0	3		0	0	20	lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Part of riparian buffer complex surrounding Chain of Lakes. Outlet creek from Chain of Lakes (west branch of Schwartz Creek) flows southeasterly through this stand.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Allow to function in undisturbed state as important component of natural watershed. Located in the NESE of Sec 28.</p>														

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Stand	Cover Type-Size 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								
75	D 0	D 0	2		0	0	20	treed bog	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Part of riparian buffer around lakes. I called it a treed bog, esp. the east end, though it's not typical. It has pine and fir growing in the bog. Parts are more like alder cover type. Tiny creek flows through from northeast to southwest, emptying into the Chain Lake. I believe this may be the outlet creek from Martells Lake.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Allow to function as undisturbed component of natural watershed. Located in the SENE of Sec 28, north side and adjacent to Chain Lakes.</p>														
76	L 0	L 0	12		0	0	20	lowland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Various lowland brush species but mostly alder. Even some cattails present. Tiny creek in north part flows westward. Also includes the abandoned ELF (terminal buried ground) row, but this should seed in with swamp conifers in the next decade.</p> <p>Wld : Located in the E1/2NE of Sec 21 for the most part.</p>														
77	N 0	N 0	1		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Tiny marsh surrounded by jack/red pine for the most part.</p> <p>Wld : Located in the approx center of Sec 28.</p>														
78	N 0	N 0	1		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Tiny marsh.</p> <p>Wld : Located in the NESW of Sec 28, west of Porterfield Lake Road.</p>														
79	L 0	L 0	5		0	0	20	lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Riparian buffer complex. Wilson creek flows through this alder wetland.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Allow to function undisturbed as important component of natural watershed. Located in the NWSW of Sec 21.</p>														
80	C 6	Q 2	1	107	7	80	28	cedar	immature	N		not scheduled	0	
<p>comnts Fmd : Note: A registered 1/16th corner (the E1/16th on the E-W 1/4 line) falls in or very near the south edge of this stand. Probably an iron pipe &amp; cap set by Kazianka for Kimberly Clark Corp. around 1967.</p> <p>Wld : Located in the SENE of Sec 21, west of ELF row.</p>														
81	F 3	F 3	4	17	2	20	54	spruce-fir (uplands-including upland black spruce)	immature	N		not scheduled	0	
<p>comnts Fmd : Was commercially cut in Spring 1990, as part of permit #11-89-01, by Mark Johnson from Foster City. "Porterfield Lake Aspen Block." No cedar was cut and only spruce &amp; fir having 3 or more sticks was cut. Thus, now in 2006, besides the residual cedar, spruce, &amp; fir, the openings have regenerated to mostly balsam fir, with balm as secondary in abundance. Spruce is found underneath being 1 to 3 ft tall at present. Soil is somewhat semi-swamp, semi- highground.</p> <p>Wld : Located in the NWSE of Sec 28.</p>														

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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								
82	A 6	M 1	3	71	10	90	72	aspen (upland)	mature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Potential or designated old growth                      Scenic values/visual values                      Other special wildlife habitat consideration (desc. In comments)</p> <p>comnts Fmd : An "in-stand retention" area left when the surrounding timber was cut by Mark Johnson in 1990, permit #11-89-01. Primary purpose at that time was for aesthetics to leave an island of timber to break up the view of a larger clearcut. It also served to provide winter budding for grouse, potential den trees, nest site for raptors, etc. The south and east end has a medium stocking of red &amp; white pine sawtimber, while the north &amp; west end has aspen, birch, &amp; some maple. In the future, without cutting, the cover type should convert to more conifer, pine, fir, etc., as well as more red maple.</p> <p>Wld : Located in the SESE of Sec 28.</p>														
85	A 6	F 1	17	72	9	100	65	aspen (upland)	high risk	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Final Harvest with Reserves. Note that we wish to cut the adjacent timber stand # 56 in Cmpt 243 in the NWNW of Sec 27 with this stand. Warren. 5/05/2004. Also add to this sale stand #29 of Cmpt 236, which is also adjacent. Retention goal of approx 5% here. Birch has been dying out, but we should leave some birch for retention purposes as well as aesthetics, seed trees, and wildlife (potential cavity den trees). Also leave all oak, cherry, and perhaps all conifer. Also in 2007, we separated out the small swamp patches in this stand since we want to save them for wildlife cover when the surrounding upland is cut. If these can contribute to retention, the total may be between 5 &amp; 10%.</p> <p>Wld : As per Warren's comments, leave all oak, cherry, and conifer. Leave white birch seed source across stand. Located in the NENE of Sec 28, and SESE of Sec 21.</p>														
86	R 8	F 1	1		16	50	64	red pine	unevenaged	N		not scheduled	0	
<p>comnts Fmd : I believe this stand was part of commercial harvest made in 2000 permit #110-99-01, "Martells Lake ELF Sale". Cut by Oro Logging (St. John Forest Prod.) All oak, cherry, and conifer other than jack pine was left. It now serves a stand retention role since it is essentially an island of pine surrounded by aspen/oak. This may well be its' role in future harvest plans as well. It is situated beside a grass wildlife opening #440, so it serves a wildlife role as well.</p> <p>Wld : Located in the NENE of Sec 28, south of ELF row.</p>														
87	S 6	S 1	5	90	8	70	40	black spruce-swamp	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Influence zones</p> <p>comnts Fmd : SCA stand. Riparian buffer to Wilson Creek.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fauna. Promote habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and natural processes/disturbances. Located in the SWSW of Sec 21, east side of creek.</p>														
88	A 6	M 2	1	80	9	80	75	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Final Harvest with Reserves. MTU research plot where tree measurements are still being taken in 1999 yr of entry. A news release by MTU indicated two lines of research on the effects of ELF electromagnetic fields. One monitored the effect on the life cycle of red pine and northern hwdws (changes in growth rates, nutrient levels, foliage production, and insect &amp; disease status). The other monitored the effect on litter decomposition and nutrient flow for northern red oaks, red maple, and red pine. A grant of \$2.3 million was awarded. Even if the research need is no longer valid in 2009, Wildlife may desire to keep this for "in-stand retention" purposes. Combine with stand 85 for sale purposes. Potential retention here would be all oak, all trace species (conifers such as pine, spruce, fir), and any potential den/nest trees such as large crowned birch. DO NOT CLEARCUT/RETAIN OAK AND SOME MAPLE.</p> <p>Wld : Retain all oak, white pine, and red pine. Retain 1/2 of red maple and white birch. Located in the NENE of Sec 28, south of ELF row.</p>														
89	J 5	J 1	5	49	8	60	61	jack pine	immature	N		not scheduled	0	
<p>comnts Fmd : Also a potential SCA stand (see stand 26 comments). Some parts are semi-open, and other patches are heavily stocked J6. Also a trace of aspen in southeast end. Note: a fairly deep ravine runs between the lake and a bog, course NE - SW. Is this natural or man-made? See locked box comment on Cmpt header.</p> <p>Wld : Located in the NESW of Sec 28, adjacent to Porterfield Lake.</p>														

\* 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. D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
90	D 0	D 0	2		0	0	20	treed bog	nonstocked	N		not scheduled	0	
<p>comnts Fmd : A buffer strip of swamp conifer surrounding small pond (Eckloff Pond). It may be considered an S5 type at least in places, but it is a stand we would not harvest any any rate. Functions to provide BMP protection to the pond, aestehtic values, wildlife values, etc.</p> <p>Wld : Located in the SWSW of Sec 28 west of road.</p>														
91	D 0	D 0	1		0	0	20	treed bog	nonstocked	N		not scheduled	0	
<p>comnts Fmd : A buffer strip of swamp conifer surrounding small pond. It may have a few swamp conifer or pine, at least in places, but it is a stand we would not harvest any any rate. Functions to provide BMP protection to the pond, aestehtic values, wildlife values, etc.</p> <p>Wld : Located in the S1/2SW of Sec 28 east of road.</p>														
92	S 5	S 2	2	75	7	40	40	black spruce-swamp	immature	N		not scheduled	0	
<p>comnts Fmd : Small spruce swamp verges on being a treed bog, at least in the center. Best timber on edges of high ground. The Section corner is located ontop of a ridge, - steep slope down to the swamp. Thus this is an inclusion of high ground and not really significant enough to make a separate stand. Eckloff's camp has a target range extending east into this swamp.</p> <p>Wld : Located in the SWSW of Sec 28.</p>														
93	A 3	A 3	3	17	4	20	65	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Was commercailly cut in 1990 by Minerick Logging, Inc. under permit # 013-89-01, "Michigamme River Block". All oak was left and a 2 inch cutting spec was used. Access was from the northeast corner of the stand. A riparian buffer was left which is now stand #20.</p> <p>Wld : Located in the N1/2SE of Sec 19, east of Michigamme River. Also described as Gov Lot 5. More precisely, the extreme southeast corner of this parcel.</p>														
94	L 0	L 0	1			0	20	lowland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Lowland brush/alder ravine.</p> <p>Wld : Located in the N1/2SE of Sec 19 east of the Michigamme River, also described as Gov Lot #5.</p>														
95	N 0	N 0	1		0	0		marsh	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand, riparian buffer. Tiny marsh bordering the Chain of Lakes on extreme west end. Has a small creek flowing out of stand #47 passing through this stand into the lake.</p> <p>Wld : Special conservation area. Allow to function as important component of natural watershed. Located in the SWNE of Sec 28.</p>														
99	L 0	L 0	16			0	20	lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA stand. Riparian buffer. Tag alder, lowland brush, periodically flooded by beaver. Wilson Creek flows through stand.</p> <p>Wld : Special conservation area. Maintain as movement corridor for mammals, amphibians, reptiles, birds, and aquatic fuana. Allow to function undisturbed as important component of natural watershed. Located in the SENE of Sec 29 for the most part.</p>														
401	G 0	G 0	4			0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Treat with larger adjacent grass opening to the east in Sec 22. Compartment 236, stand #400.</p> <p>Wld : Located in the SESE of Sec 21 for the most part.</p>														
402	G 0	G 0	11			0		grass	nonstocked	N		not scheduled	0	
<p>Wld : Located in the NWSW of Sec 21.</p>														

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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								
403	G 0	G 0	3	15		0	70	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : FTP W31-276. Rockrake, disk, &amp; seed. Was seeded in August of 1992. Access trail from east was bermed.                      Wld : Located in the NESE of Sec 21, between trail road on the east and ELF row on the west.</p>														
404	G 0	G 0	4			0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This is the residual cleared ELF row (100 ft wide) left from when the system was abandoned in 2005. Poles being salvaged now.                      Wld : Located in the SENE &amp; NESE of Sec 21 for the most part.</p>														
405	G 0	G 0	8			0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This is the residual cleared ELF row (100 ft wide) left from when the system was abandoned in 2005. Poles being salvaged now.                      Wld : Located in the S1/2SE of Sec 21, &amp; N1/2NE of Sec 28 for the most part.</p>														
406	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This is the residual cleared ELF row (100 ft wide) left from when the system was abandoned in 2005. Poles being salvaged now.                      Wld : Located in the W1/2NE&amp; SENW of Sec 28, for the most part.</p>														
407	G 0	G 0	3			0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : This is the residual cleared ELF row (100 ft wide) left from when the system was abandoned in 2005. Poles being salvaged now. This portion contains the terminal ground where the signal entered the earth or bedrock.                      Wld : Located in the S1/2NW of Sec 28, west of Porterfield Lake Road.</p>														
408	G 0	G 0	3		0	0		grass	old growth (potential or actual)	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Influence zones                      Historical and archeological sites</p> <p>comnts Fmd : SCA stand. Part of riparian buffer. See comments for stand #21 which is adjacent and also SCA. Management of this opening will be at the option of Wildlife Division. One option, of course, is to allow natural succession to proceed. Somewhat brushy in places (cherry, etc.). It appears the adjacent private landowner may have done some food plot type of work on the west end (half acre or so) in the past. Pieces of farm type disks still onsite.                      Wld : Special conservation area. Located in the S1/2SE of Sec 30, south &amp; east of Michigamme River, also described as Gov Lot 8.</p>														
440	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand is located in pothole or slight depression. Mostly south facing slope.                      Wld : Located in the E1/2NE of Sec 28.</p>														

Total Acres..... 1218