



**TRAVERSE CITY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 102 ENTRY YEAR: 2007

Compartment Acreage: 2441 County: Kalkaska

Stand Examiner: G.R.Grieve

Legal Description: T28N, R5W, Sec's 4, 5, 6, 7, 8 & 9

Management Goals: Maintain a variety of cover types and age class diversity which favor a variety of game and non game species. RMU 213

Soil and Topography: Kalkaska & Blue Lake loamy sand, Rubicon & Kalkaska sands. Rolling hills & lakes. Few swamp lands.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Private ownership with high residential & second home development around the lakes. The rest of the area is in block state ownership. Most of the developed land next to the lakes has been developed. The private land in back of the developed areas is starting to be developed.

Unique, Natural Features (include only non-site specific and non-sensitive information):

This compartment falls within landtype associations (LTAs) 3121, 5211, and 5521 of sub-subsection VII.2.2. LTA 3121, which occurs in the southeastern portion of the compartment, is characterized by large irregular ice-contact ridges, few kettle lakes, and well drained loamy sand. Northern hardwood forests of beech and sugar maple occurred on 73% of this LTA circa 1800. Hemlock and white pine probably occurred in low numbers throughout most of these hardwood forests, and these two conifers also co-dominated forests on the remainder of the LTA. Specifically, hemlock, was co-dominant with either beech or white pine on about 19% of the LTA. In addition to its association with hemlock, white pine also occurred in mixed forests with red pine on about 6% of the LTA. Northern hardwood forests remain the dominant cover type on LTA 3121, covering about 70% of its surface. However, most of these second growth forests lack the structural complexity of mature northern hardwoods and, in addition, the conifer component has been greatly reduced or eliminated. Conifer dominated forests, once common on this LTA, have been essentially eliminated, whereas aspen/white birch forests now cover about 19% of the area. The northwestern two-thirds of the compartment contains LTA 5211, a pitted outwash plain with excessively drained sand. Forests of beech and sugar maple covered 34% of the LTA. One quarter of the landscape was dominated by fire-prone red pine mixed with white or jack pine. Jack pine, occurring in pure stands or in open, savanna-like pine and oak/pine barrens covered approximately 13% of the LTA. The remainder of the LTA supported forests of white pine, beech, and red maple, often including a significant portion of hemlock, and lowland conifer swamps. The upland-conifer forests, which occupied over 50% of the LTA at the time of the General Land Office survey have been drastically reduced and now occur on about 19% of the landscape. Further, much of these remaining conifer forests are red or jack pine plantations, while oak and pine barrens and forests co-dominated by hemlock have been virtually eliminated. In contrast, aspen/white birch forests, which covered about 3% of the LTA at the time of the General Land Office survey, have increased to about 20% cover today. LTA 5521 is found in southeastern corner of the compartment. LTA 5521 is characterized by narrow, north-south trending outwash channels with well-drained sand between large ice-contact ridges. Circa 1800,

white pine was co-dominant with hemlock, red pine, or American beech and red maple, in 61% of the original forests of the LTA. Eastern hemlock also occurred with American beech in forests that covered about 8% of the LTA. The remaining upland area supported less extensive forests of American beech and sugar maple, and red pine mixed with oak or jack pine. Wetlands, which covered 13% of the LTA, were predominately cedar, mixed conifer, or mixed hardwood/conifer swamps. The LTA has become quite fragmented and 21% of its area supports cover types with less than 5% individual cover. Aspen/white birch forest, which was not noted by the original land surveyors, has become the predominant cover type and occurs on 25% of the LTA. Pine forest persists on only 20% of the area and forests with hemlock as a co-dominant have been virtually eliminated. Unmanaged herbaceous and shrublands collectively cover about 18% of the LTA, while northern and central hardwoods occur on another 15%. Much of the original conifer-dominated wetlands have been converted to either lowland hardwoods or lowland shrubs.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): "Big Wheel" roads are located on private to the west of this compartment. Also, a number of old Antrim Iron Company logging camps are located just outside the compartment boundaries.

Special Management Designations or Considerations: None at this time.

Watershed and Fisheries Considerations: Starvation Lake, Eagle Lake, Waddell's Pond, and McNeil's Pond all lie within Compartment 102. Starvation Lake is stocked annually with rainbow and brown trout, and also offers good fishing for largemouth bass, smallmouth bass, bluegill, and yellow perch. Eagle Lake offers fishing for largemouth bass, bluegill, pumpkinseed sunfish, and yellow perch. No timber harvests should take place within 100' of these lakes or the two ponds, per MDNR BMPs.

Wildlife Habitat Considerations: The north half of the compartment consists of a pitted outwash plain (LTA 5211). This type of outwash plain consists of numerous kettle lakes and sandy, excessively drained soils. Within this compartment, numerous aspen and shrub stands are located here. There are also maple and pine stands. Portions of Sec. 08 and Sec. 09 lie on an ice contact ridge (LTA 3121). Topography is steep, broken, and irregular. Soils are well drained, loamy sand. Within this compartment, maple stands dominate. There are also some limited aspen stands, along with a few old well pad sites. A small, narrow outwash channel (LTA 5521) is located in the SE corner of Sec. 09. A red pine plantation and young maple/aspen/tamarack stand are located here. FMFM planted tamarack within the deciduous stand and it is doing well.

Ruffed grouse use different aged aspen throughout their life cycle. Younger stands provide cover while older stands provide catkins (food source) for the winter months. Aspen clearcuts help facilitate different sized trees by mimicking the necessary disturbance vital for regeneration. The creation of CWD trees for drumming logs and maintaining berry-producing shrubs is also desirable. Wildlife considerations for northern hardwood stands involve maintaining tree species diversity, the protection of den/nesting trees & snags, Coarse Woody Debris (CWD), and maintaining a scattering of mast-producing trees/shrubs. This will insure use by many species of wildlife. Examples of species include scarlet tanager, raccoon, broad-winged hawk, wild turkey, and white-tailed deer. Many wildlife species rely on small forest openings and upland shrubland. These openings provide grassy nest sites, plentiful seeds and insects, and cover. Examples of species include northern flicker, eastern chipmunk, and blue racer. Upland shrub stands are important because they contain many berry-producing trees and shrubs. Handfelling with chainsaws may be needed to maintain these habitat types. Any degraded site should be considered for planting of trees, rye, or into a native grass. The tamarack planted within one stand provides an interesting alternative for tree species diversification and does provide some wildlife value.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 1,000 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have an economic use. The nearest gravel pit is located one mile to the south and potential is considered good on the uplands. This area is located in the Niagaran reef trend with many producing wells. The Antrim Shale gas play may have some limited potential. Most of the Compartment is currently leased for oil and gas development. Parts of two gas storage fields are also in the Compartment.

Vehicle Access: No new roads or closure of roads needed at this time. The snowmobile road in the north part of Section 8 & 9 needs some erosion control attention. This is a very steep hill.

Survey Needs: A good number of state corners are in this compartment, also, a number of private corners. These corners don't always agreed, as the 1839 survey has a number of inconsistencies. Any land lines should be run with caution. At this time no new survey request are needed.

Recreational Facilities and Opportunities: There is a Public Access Site on Starvation Lake. The Blue Bear Snowmobile Trail & a feeder link to the Jordon Valley Snowmobile Trail are also in this compartment. The Kalkaska ORV Trail & the MCCCT Trail area also in this compartment. The North Country Trail runs north south through the center of the compartment.

Fire Protection:

Additional Compartment Information:

****** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

- Cover Type by Age Class**
- Cover Type by Management Objective**
- Compartment Volume Summary**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**

****** The following information is displayed on the attached compartment maps:**

- Base feature information, stand numbers, cover types**
- Proposed treatments**
- Proposed road access system**
- Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: 102

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS													All Aged	Total			
	Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129			130-139	140-149	150-159
Aspen		113	61	176	194	28	38												610
Bog or Marsh	6																		6
Grass	77																		77
Non Stocked	23																		23
Red Pine					8	469	19												496
Upland Brush	224																		224
Upland Hdws			33			9												893	935
Water	33																		33
White Pine						37													37
Total	363	113	94	176	202	543	57											893	2441

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: 102

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	610																										610
V Bog or Marsh			6																								6
G Grass					48											5			24								77
X Non Stocked													23														23
R Red Pine																496											496
U Upland Brush																								224			224
M Upland Hdws	9																								926		935
Z Water																									33		33
W White Pine																										37	37
Total	619		6		48								23			501			24				224	926	33	37	2441

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: **102**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	19051 Cds	Hardwood	1631 Cds
Hardwood	1648 Mbf	Hardwood	165 Mbf
Softwood	18212 Cds	Softwood	5873 Cds
Softwood	141 Mbf	Softwood	32 Mbf
Sum TotVol	40841 Cds	Sum CutVol	7898 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	635
2441			

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 102 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	U0	2			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 11/9/2005 Wildlife does not want this area planted. (Grieve) 3/25/2005 Scattered cherry. Plant to red pine. (Grieve) 12/1995 POSSIBLE PRESCRIBED BURN (byres)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
4	U0	2			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 11/9/2005 Wildlife does not want this area planted. (Grieve) 3/25/2005 Scattered cherry. Plant to red pine. (Grieve) 12/1995 POSSIBLE PRESCRIBED BURN (byres)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
6	U0	19			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 11/9/2005 Wildlife does not want this area planted. 3/25/2005 Scattered cherry. Plant to red pine. (Grieve) 12/1995 POSSIBLE PRESCRIBED BURN (byres)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
8	U0	5			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 11/9/2005 Wildlife does not want this area planted. 3/25/2005 Scattered cherry. Plant to red pine. (Grieve) 12/1995 POSSIBLE PRESCRIBED BURN (byres)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
9	U0	5			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/25/2005 Scattered cherry. (Grieve) 12/1995 POSSIBLE PRESCRIBED BURN (byres)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
10	U0	21			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 11/9/2005 Wildlife does not want this area planted. 3/25/2005 Scattered cherry. Plant to red pine. (Grieve) 12/1995 POSSIBLE PRESCRIBED BURN (byres)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
12	U0	5			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/25/2005 Scattered cherry. (Grieve) 12/1995 POSSIBLE PRESCRIBED BURN (byres)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
14	U0	8			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/25/2005 Scattered cherry. (Grieve) 12/1995 POSSIBLE PRESCRIBED BURN (byres)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
17	M6	2	46	51	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : 3/23/05 Convert to aspen. These three small stands were visual management islands left from past cuts. Time to now cut them. If they come back to red maple that works also. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
18	U0	2			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 11/9/2005 Wildlife does not want this area planted. 3/25/2005 Scattered cherry. Plant to red pine. (Grieve) 12/1995 POSSIBLE PRESCRIBED BURN (byres)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 102 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
19	M6	4	46	51	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : 3/23/05 Convert to aspen. These three small stands were visual management islands left from past cuts. Time to now cut them. If they come back to red maple that works also. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
20	M6	3	46	51	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : 3/23/05 Convert to aspen. These three small stands were visual management islands left from past cuts. Time to now cut them. If they come back to red maple that works also. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
21	U0	1			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/25/2005 Old landing. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
23	A6	13	41	51	aspen (upland)	low quality	final harvest	1	natural regeneration	
comnts Fmd : 3/23/05 Lots of brush, poor quality. Needs a cut. A mix of red maple will work also. (Grieve) 11/7/2005 Wildlife will mark some leave trees for grouse & drumming logs. (Grieve)										
Wld : Stand 23 – 2005 SGG: CWD spec: Trees felled for CWD should be 12-14" DBH and cut at a height of 4-5 ft. Logs should be left within 2-3 ft of stump. Leave about 6 CWD. WLD can mark.										
25	U0	22			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/18/05 Scattered cherry logs & poles. Sometimes an aspen clone of quaking. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
31	U0	9			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/23/05 Standard mixed U-type. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
33	R6	38	45	64	red pine	immature	thinning	1		
comnts Fmd : 3/23/05 Not the greatest looking stand. JUST ready for a third row thinning. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
37	R6	16	45	65	red pine	immature	thinning	1		
comnts Fmd : 3/23/05 Ready for first thinning. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
46	U0	1			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/28/2005 Scattered cherry. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
47	U0	2			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/28/2005 Scattered cherry. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
50	R6	10	44	59	red pine	immature	thinning	1		
comnts Fmd : 3/24/2005 Weak stand, but ready to thin. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
53	R6	69	44	59	red pine	immature	thinning	1		
comnts Fmd : 3/24/2005 Weak stand, but ready to thin. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 102 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
55	R6	19	52	58	red pine	immature	thinning	1		
comnts Fmd : 3/25/2005 2nd thinning needed. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
56	A6	2	55	51	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : 3/2/2005 Aspen looks bad. Cut with other near-by stands. A mix or type of red & sugar maple may also be the out come of this cut. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
57	A6	6	55	51	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : 3/2/2005 Aspen looks bad. Cut with other near-by stands. A mix or type of red & sugar maple may also be the out come of this cut. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
58	R6	4	44	58	red pine	immature	thinning	1		
comnts Fmd : 3/25/2005 3rd row thinning needed. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
59	R6	306	44	58	red pine	immature	thinning	1		
comnts Fmd : 3/25/2005 3rd row thinning needed. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
60	U0	1			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 5/2/2005 Scattered Cherry (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
62	U0	5			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 5/2/2005 Scattered Cherry (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
66	U0	3			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/25/2005 Not very big. (Grieve) 12/17/1995 POSSIBLE PRESCRIBED BURN (Byers)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
72	R6	23	44	58	red pine	immature	thinning	1		
comnts Fmd : 3/25/2005 3rd row thinning needed. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
74	U0	1			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/25/2005 U-type next to road. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
75	M6	3		61	northern hardwood	unevenaged	selection	1		
comnts Fmd : 3/25/2005 Not as good as stand 76, but it's really the same stand. Selection cut. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
76	M6	64		61	northern hardwood	unevenaged	selection	1		
comnts Fmd : 3/25/2005 Nice looking stand. Logs at east side of stand. Selection cut. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 102 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
79	U0	7			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/28/2005 Scattered aspen clones & cherry (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
83	U0	10			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/28/2005 Scattered aspen clones & cherry (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
86	R6	8	30	59	red pine	immature	thinning	1		
comnts Fmd : 3/28/2005 3rd row thinning. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
87	U0	17			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/28/2005 Scattered cherry. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
88	U0	11			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/28/2005 Scattered cherry. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
89	U0	42			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/28/2005 Scattered cherry. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
91	A6	8	49	52	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : 11/7/2005 Wildlife will mark some leave trees for grouse & drumming logs. (Grieve) 3/28/2005 Multi-age stand. Lets clearcut. Some highrisk. Cutting will put stand in a healthier condition. "Beaver cutting in north side"??? This is really going to be a weak cut, but is best for the stand. I really don't understand where the beaver came from. Some red maple & cherry may become a major part of this stand. (Grieve)										
Wld : Stand 91 – 2005 SGG: CWD spec: Trees felled for CWD should be 12-14" DBH and cut at a height of 4-5 ft. Logs should be left within 2-3 ft of stump. Leave about 4 CWD. WLD can mark.										
95	U0	10			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/28/2005 Pot hole U-type (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
96	A6	22	49	52	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : 11/7/2005 Wildlife will mark some leave trees for grouse & drumming logs. (Grieve) 3/28/2005 Multi-age stand. Lets clearcut. Some highrisk. Cutting will put stand in a healthier condition. "Beaver cutting in north side"??? This is really going to be a weak cut, but is best for the stand. I really don't understand where the beaver came from. Some red maple & cherry may become a major part of this stand. (Grieve)										
Wld : Stand 96 – 2005 SGG: CWD spec: Trees felled for CWD should be 12-14" DBH and cut at a height of 4-5 ft. Logs should be left within 2-3 ft of stump. Leave about 11 CWD. WLD can mark.										
97	U0	13			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 3/28/2005 Scattered cherry. (Grieve)										
Wld : 2005 SGG: If needed, selectively hand fell woody encroachment to maintain semi-open (upland brush) habitat with scattered mast producing shrubs and trees. Black cherry, juneberry, choke cherry, grasses.										
101	A9	8	41	52	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : 11/7/2005 Wildlife will mark some leave trees for grouse & drumming logs. (Grieve) 3/24/2005 Clearcut. Leave white & red pine along with the oak. Old white pine stumps. Stand comes & goes. Lots of oak in the understory. This stand may also come back as a oak or pine dominated stand. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 102 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
102	A9	7	41	52	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : 11/7/2005 Wildlife will mark some leave trees for grouse & drumming logs. (Grieve) 3/24/2005 Clearcut. Leave white & red pine along with the oak. Old white pine stumps. Stand comes & goes. Lots of oak in the understory. This stand may also come back as a oak or pine dominated stand. (Grieve) Wld : 2005 SGG: Concur with FMFM.										
401	G0	3			spruce-fir (uplands-including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/25/2005 Abandon well site. Knapweed. Plant to spruce. (Grieve) Wld : 2005 SGG: Concur with FMFM original suggestion of red pine.										
402	G0	2			spruce-fir (uplands-including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/25/2005 Abandon well site. Knapweed. Plant to spruce. (Grieve) Wld : 2005 SGG: Concur with FMFM original suggestion of red pine.										
404	G0	3			spruce-fir (uplands-including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/23/2005 Abandon well site. Knapweed. Plant to spruce or spruce. Will have snowmobile problems. (Grieve) Wld : Stand 404 – 2005 SGG: WLD will plant white spruce to revegetate oil well pad. Should have signs warning that trees have been planted.										
405	G0	2			spruce-fir (uplands-including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/23/2005 Abandon well site. Knapweed. Plant to spruce. Will have snowmobile problems. (Grieve) Wld : 2005 SGG: WLD will plant white spruce to revegetate oil well pad. Should have signs warning that trees have been planted.										
406	G0	2			spruce-fir (uplands-including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/23/2005 Abandon well site. Knapweed. Plant to spruce by Wildlife Div. Will have snowmobile problems. (Grieve) Wld : 2005 SGG: WLD will plant white spruce to revegetate oil well pad. Should have signs warning that trees have been planted.										
407	G0	2			spruce-fir (uplands-including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/23/2005 Abandon well site. Knapweed. Plant to spruce by Wildlife Div. Will have snowmobile problems. Very bad subsidence from buried trees or pit. (Grieve) Wld : 2005 SGG: WLD will plant white spruce to revegetate oil well pad. Should have signs warning that trees have been planted.										
409	G0	2			spruce-fir (uplands-including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/23/2005 Abandon well site. Knapweed. Plant to spruce by Wildlife Div. Will have snowmobile problems. Very bad subsidence from buried trees or pit. (Grieve) Wld : 2005 SGG: WLD will plant white spruce to revegetate oil well pad. Should have signs warning that trees have been planted.										
411	G0	3			spruce-fir (uplands-including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/23/2005 Abandon well site. Knapweed. Plant to spruce by Wildlife Div. Will have snowmobile problems. (Grieve) Wld : 2005 SGG: WLD will plant white spruce to revegetate oil well pad. Should have signs warning that trees have been planted.										

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 102 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
412	G0	2			spruce-fir (uplands- including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/23/2005 Abandon well site. Knapweed. Plant to spruce by Wildlife Div. Will have snowmobile problems. (Grieve)										
Wld : 2005 SGG: WLD will plant white spruce to revegetate oil well pad. Should have signs warning that trees have been planted.										
413	G0	2			grass	nonstocked		0	planting	
comnts Fmd : 3/24/2005 Abandon well site. Knapweed. Plant to something. Red pine. (Grieve) 12/1995 PLANT TO GRASS OR OLIVE (Byers)										
Wld : 2005 SGG: Concur with FMFM.										
417	G0	3			red pine	nonstocked		0	planting	
comnts Fmd : 3/25/2005 Abandon well site. Knapweed. Plant to red pine. (Grieve)										
Wld : 2005 SGG: Concur with FMFM.										
419	G0	2			red pine	nonstocked		0	planting	
comnts Fmd : 3/23/2005 Abandon well site. Knapweed. Plant to red pine or spruce. (Grieve)										
Wld : 2005 SGG: Concur with FMFM original suggestion of red pine.										
420	G0	2			grass	nonstocked		0	planting	
comnts Fmd : 12/1995 DRY WELL SITE, PLANT TO AUTUMN OLIVE (Byres)										
Wld : 2005 SGG: WLD will plant white spruce to revegetate oil well pad. Should have signs warning that trees have been planted.										
423	G0	3			spruce-fir (uplands- including upland black spruce)	nonstocked		0	planting	
comnts Fmd : 3/28/2005 Abandon well site. Plant to spruce by Wildlife Div. Knapweed on site. (Grieve)										
Wld : 2005 SGG: Concur with FMFM original suggestion of red pine.										
Total Acres.....		892								

**Proposed Treatments
With Limiting Factors**

Compartment: 102 Entry Year: 2007

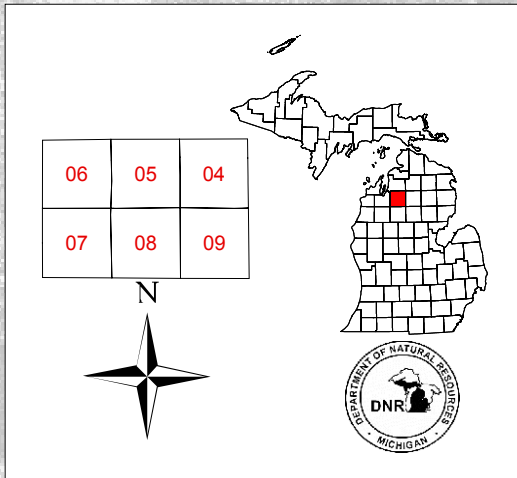
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 102
 T28N, R5W, Sec. 4-9
 County: Kalkaska
 Unit: Traverse City
 YOE: 2007
 Acres: 2,441 GIS Calculated
 Stand Examiner: Jerry Grieve
 Map Revised: 10/24/2005
 Map Phase: Pre-review



- Legend**
- ◆ RLS Corners
 - Miris Corners
 - - - Poor Dirt Roads
 - ⋯ Trails
 - Pipelines
 - 🚙 Snowmobile Trails
 - 🛵 ORV Trails
 - 🚶 Hiking Trails
 - ▭ Stand Boundary
 - ▭ 011 - Planting/Hand tools
 - ▭ 021 - Opening Maintenance/Hand tools
 - ▭ 148 - Final harvest/Natural Regeneration/Other
 - ▨ 400 - Thinning
 - ▩ 800 - Selection

