

**CRUISING/MARKING PRESCRIPTION**  
**Newberry Management Unit**  
**Compartment 47 Stands 55,60,63,64**  
**Luce County**  
**T48N R8W Section 5 – S1/2 and Section 8 – NE1/4**

**TASKS:** Cruise stand 60 for final harvest. Mark stands 55,63 and 64 (N ½) for thinning. Mark cutting boundaries and determine stand acreage. Map boundary line placement using GPS. The total approximate size of stands 55, 60, 63 and 64 is 122 acres with an estimated perimeter of boundary line being 20 chains blue, 270 chains red line, and 60 chains interior green payment lines. Private property line work for stand 55 will need to be established by running line between known DNR corners. All work is to be completed by August 15, 2003.

**ACCESS INFORMATION:** The stands are located just off Co Rd 500 and along the snowmobile trail (see inventory map). Co Rd 500 is good year-round access.

**STAND DESCRIPTION:** Stand 55 (approx. 9 acres) consists mainly of northern hardwoods (average dbh 10"). The understory consists mostly of northern hardwood and is generally thick in most places. Stand 60 (approx. 39 acres) consists mainly of aspen, red maple, and mixed conifers. The understory consists mostly of balsam fir and hardwood. Stand 63 (approx. 30 acres) consists of lower quality red and sugar maple, with aspen and balsam fir. The understory consists mostly of hardwood. Stand 64 (approx. 44 acres) is higher quality northern hardwoods, with some aspen and conifer species.

**TREATMENT OBJECTIVES:** Stand 60 will be final harvested to encourage the regeneration of aspen. Retain species components such as white pine, red pine, hemlock, white spruce, and pulp quality yellow birch for aesthetics, diversity and seed sources. Stands 55,64 will be thinned to enhance the growth and quality of the residual stand. Stand 63 will be cut to encourage aspen regeneration, although important wildlife species will be left, including any and all white pine, red pine, hemlock, yellow birch, and large diameter beech.

**BOUNDARY LINE PRESCRIPTION:**

1. Use discretion when placing boundary lines, keeping in mind equipment limitations, Best Management Practices and merchantability issues.
2. Establish and map boundary line (red, blue paint) placement using a GPS.
3. Establish and map payment unit boundary line (green paint).
4. Determine stand acreage.

**CRUISING PRESCRIPTION (stand 60):**

1. Cruise all aspen, paper birch, maple, beech, and balsam fir.
2. All white pine, hemlock, and white spruce is to be left as residual and does not need to be cruised.
3. Mark the exact plot center placing a stick in the ground and flagging it with ribbon. Mark the ribbon with the corresponding plot number.

**Volume Determination:**

1. Cruise all pulpwood-sized aspen, paper birch, maple, and balsam fir down to 4" D.I.B.

2. Cruise any sawlog quality hardwood that may exist to 10" D.I.B.
3. Cruise with a 10 basal area factor prism.
4. Cruise stand at one plot per acre with point spacing to be determined after the boundary line work is complete. Keep cruise tallies separate by unit.

#### **MARKING PRESCRIPTION (stand 55,63,64)**

1. The residual BA excluding small regeneration gaps shall be 75-85 sq. ft. (EXCEPTION: Stand 63 BA can drop down as low as 20 sq. ft.)
2. Create 3-5 30-foot regeneration gaps per acre, where appropriate. Mark all trees 1" DBH and larger from regeneration gaps.
3. Manage for the best tree in place, regardless of species.
4. Mark hardwood to be cut with orange paint.
5. All aspen and balsam fir will be cut. Trees do not have to be marked, just tallied.
6. Do not mark any white pine, red pine, hemlock, white spruce, or pulp quality yellow birch. Retain a few large diameter beech and red maple, if present, also.

#### **Volume Determination:**

1. 100%, by species, tally on all marked sawlogs. Sawlogs are cruised to a 10" D.I.B. Sawlog trees are to be marked with an "X" and dots painted to coincide with the amount of sawlogs tallied in the tree.
2. Large hardwood pulp >12" should be 100% tallied separately and marked with an "X" on the tree. Small hardwood pulp will be done with a 1:20 tally, and any aspen, balsam fir with a 1:10 tally. Keep cruise and marking tallies separate by unit.

A meeting will be held between the contract administrator and the contractor before work begins to cover questions and other specifics. Contact administrators at the Newberry Field Office are:

Keith Magnusson  
(906)293-3293  
[magnussk@michigan.gov](mailto:magnussk@michigan.gov)

Theresa Sysol  
(906)293-3293  
[sysolt@michigan.gov](mailto:sysolt@michigan.gov)

Dave Lemmien  
(906)293-3293  
[lemmiend@michigan.gov](mailto:lemmiend@michigan.gov)