

**CRUISING/MARKING PRESCRIPTION**  
**Newberry Management Unit**  
**Compartment 47 Stands 85,88**  
**Luce County**  
**T48N R8W Section 7 – E1/2SE and Section 8 – S1/2S1/2**

**TASKS:** Cruise stand 88 for final harvest. Mark stand 85 for cutting. Mark cutting boundaries and determine stand acreage. Map boundary line placement using GPS. The total approximate size of stands 85 and 88 is 48 acres with an estimated perimeter of boundary line being 240 chains red line and 5 chains green line. All work is to be completed by August 15, 2003.

**ACCESS INFORMATION:** The stands are located along Co Rd 500 and M-123 (see inventory map). Both roads provide good year-round access.

**STAND DESCRIPTION:** Stand 85 (approx. 29 acres) consists mainly of northern hardwoods (average dbh 8"). Species include: red and sugar maple, yellow birch, beech and aspen. Minor components of hemlock, white pine, paper birch and white spruce are present. The understory consists mostly of northern hardwood and is generally thick in most places. Stand 88 (approx. 19 acres) consists mainly of aspen, red maple, and balsam fir. The understory consists mostly of balsam fir and hardwood. Both stands fall along a State Highway, with visual concerns. Recommend marking during leaf-off conditions.

**TREATMENT OBJECTIVES:** Stand 88 will be a final harvest 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. Stand 85 will be thinned to enhance the growth and quality of the residual stand.

**BOUNDARY LINE PRESCRIPTION:**

1. For stand 88, use discretion when placing boundary lines, keeping in mind equipment limitations, Best Management Practices and merchantability issues.
2. Establish and map boundary line (red paint) placement using a GPS. No boundary paint will be necessary along M-123 and Co Rd 500, and very minimal paint will be needed against the A3 type.
3. Establish and map payment unit boundary line (green paint).
4. Determine stand acreage.

**CRUISING PRESCRIPTION (stand 88):**

1. Cruise all aspen, paper birch, maple, 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 85)**

1. The residual BA excluding small regeneration gaps shall be 85-90 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.
7. Visual management must be considered along M-123. M-123 is designated a Heritage Route. Mark stand lightly immediately along M-123 and leave a few larger trees. Do not mark trees that lean heavy towards the highway and would be difficult for the logger to fall.

### **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. 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:

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