

## **CRUISING/MARKING PRESCRIPTION**

### **Newberry Management Unit**

### **Compartment 77 Stands 2, 3 & 4**

### **Luce County**

### **T47N R8W Section 4 - N1/2NW1/4**

**TASKS:** Cruise stand 3 to be final harvested and cruise stand 2 to be shelterwooded (approximately 13 acres). Mark stand 4 for cutting (approximately 16 acres). Mark cutting and unit line boundaries and determine stand acreage. Map boundary line and unit line placement using GPS. The total approximate size of all stands (2, 3, and 4) is 29 acres with an estimated perimeter of boundary line being 120 chains and estimated unit boundaries being 20 chains. All work is to be completed by August 15, 2003.

**ACCESS INFORMATION:** The stands are approximately 1 mile south of where the Camp 7 Road and the Charcoal Grade meet. Stand 2 is adjacent to the Charcoal Grade (see inventory map).

**STAND DESCRIPTION:** Stand 3 consists mainly of aspen with a mix of some sugar maple. Stand 2 consists mainly of red maple, cedar, yellow birch and white pine. Stand 4 is mostly a mix of unevenaged northern hardwoods with a Basal Area of 140. The understory in all stands consists mostly of maple and balsam fir and is generally thick in most places.

The southern edges of stands 2 and 4 occur along a low type. Use discretion and judgement when establishing the boundary line bearing in mind BMP's, equipment limitations and merchantability.

**TREATMENT OBJECTIVES:** Stand 2 will be shelterwooded in order obtain new regeneration and promote existing regeneration of hemlock, white pine and yellow birch. Remove all maple, aspen, paper birch, spruce, balsam and cedar while retaining all hemlock, white pine and yellow birch.

Stand 3 will be final harvested to encourage the regeneration of birch, aspen and lowland conifer. Retain the species components such as white pine, hemlock and yellow birch for aesthetics, diversity and seed sources.

Stand 4 will be selectively marked will be marked with the objective of retaining and releasing northern hardwood crop trees or best quality trees on site, releasing quality regeneration and decreasing the number of defective or low quality trees. This will help move the residual stand towards regulation. Also some important wildlife trees should be retained, along with white pine, hemlock and yellow birch as important seed sources.

### **BOUNDARY LINE PRESCRIPION:**

1. The stands occur along the Charcoal Grade. Use discretion when placing the boundary lines, especially on the south side of stands 2 and 4 keeping equipment limitations, Best Management Practices and merchantability issues in mind.
2. Establish and map boundary line (red paint) placement using a GPS.
3. Establish and map unit line (green paint) placement using a GPS.
4. Determine stand acreage.

5. Locate and protect all survey corners within sale boundary.

**CRUISING PRESCRIPTION (stands 2 & 3):**

1. Cruise all paper birch, aspen, red maple, balsam, spruce & cedar.
2. All white pine, hemlock and yellow birch 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 paper birch, aspen, red maple, spruce, balsam and cedar down to 4" D.I.B.
2. Cruise any sawlog-sized paper birch or maple 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.

**MARKING PRESCRIPTION (stand 4):**

1. Create 3–5 30-foot regeneration gaps per acre. Mark all trees 1" DBH and larger from regeneration gaps.
2. The residual BA excluding small regeneration gaps shall be 75 – 85 sq. ft.
3. Leave 1–2 beech mast trees and cherry clumps per acre.
4. Favor any yellow birch to promote their regeneration.
5. Manage for the best tree in place, regardless of species.
6. Mark all cut trees with orange paint.
7. Do not mark any white pine, hemlock or yellow birch.
8. Retain some den or cavity trees per acre if present, or retain potential trees, if one or two den/cavity trees are not present.

**Volume Determination:** 100% tally on all marked sawlogs. Sawlog trees are to be marked with an "X" and dots painted to coincide with the amount of sawlogs tallied in the tree. 1/20 tally on all marked hardwood pulp. 1/20 tally on any aspen, spruce and balsam.

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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