

**CRUISING / MARKING PRESCRIPTION**  
**Newberry Forest Management Unit**  
**Compartment 5 Stands 53**  
**Luce County**  
**T49N R12W Sec 10 – SW1/4, W1/2E1/2**

**TASKS:** Cruise and mark stand 53 for a shelterwood prep. The stand will need to be cruised and lightly marked. The total area to be treated is approximately 83 acres. The entire area is to be bounded by red paint and mapped using GPS. There are approximately 240 chains of boundary line and 40 chains of payment unit boundary line to be established. The attached type map delineates sale area. All work is to be completed by August 15, 2003.

**ACCESS INFORMATION:** The stand is located approximately 10 miles east of Grand Marias in the Blind Sucker Flooding area. The stand can be accessed by County Road 416 and drivable two tracks. Follow the inventory map and photos.

**STAND DESCRIPTION:** Stand 53 mainly consists of red pine and jack pine with a mix of white pine, paper birch, spruce and balsam. The jack pine is approximately 90 years old. There is 150-200 year old red pine in this stand. The current basal area of this stand is approximately 130. The understory is light with white pine and is open for the most part.

**TREATMENT OBJECTIVES:** Stand 53 will be thinned for a shelterwood prep with the objective of releasing and enhancing the growth and quality of residual red and white pine trees along with promoting the growth of new and existing reproduction. Lightly mark red and white pine and remove all jack pine, paper birch, red maple, spruce & balsam. Retain all hemlock, cedar and yellow birch that may exist. Residual basal area should be approximately 90-100.

**BOUNDARY LINE PRESCRIPTION:**

1. Establish and map boundary line (red paint) placement using GPS. Use discretion when placing the boundary lines keeping equipment limitations, Best Management Practices and merchantability issues in mind.
2. Use judgement when separating stands 51 and 53. Separating stands will be difficult.
3. Establish and map payment unit boundary line (green paint).
4. Determine stand acreage.
5. Locate and protect all survey corners within sale boundary.

**MARKING PRESCRIPTION:**

1. Lightly mark red and white pine to improve quality and growth of residual trees. Remove very mature and small diameter pine. Retain quality pole and small sawlog red pine.
2. Mark pine in stands to improve maneuverability within the stand for logging operations to occur.
3. Mark all cut trees with yellow paint.
4. Retain some den or cavity trees if present, or retain potential trees if den/cavity trees are not present.

**Volume Determination:**

1. Use a 100% tally on all marked red and white pine sawlogs. Sawlog trees are cruised to a 10" top 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. Use a 1/20 tally on all marked red and white pine pulp.

**CRUISING PRESCRIPTION:**

1. Cruise all jack pine, paper birch, red maple, balsam & spruce.
2. Do not cruise yellow birch, hemlock, cedar
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, jack pine, spruce and balsam down to 4" D.I.B.
2. Cruise all sawlog-sized paper birch, red maple to a 10" top 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.

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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