

Plant Tissue Sampling for Pine Trees

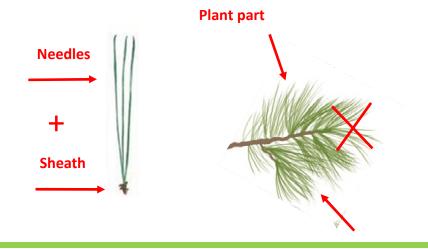
When to sample: Collect routine samples in May-June.

Growth stage: Specify whether the trees are early (E) or mature (M). Seedlings to saplings are considered early. Pines are mature when they begin producing cones which is ~10-30 years.

Tree Position: Middle (M) of the tree.

Quantity: Collect a large handful of needles (~100).

Plant part: Collect needles with sheaths from the lateral areas of the bough. This is the Most Recent Mature Leaf (MRML). Do not collect needles from the tufted ends.



Tips

- Fill out the Plant Sample Information Form as completely as possible. The more information you provide, the more precise your recommendations will be.
- Specify the growth stage and whether your sample is Predictive (routine) or Diagnostic (troubleshooting).
 For diagnostic testing, submit a plant sample and a corresponding soil sample from both a "good" (healthy) and "bad" (unhealthy) area.
- Use paper bags for storing and mailing. Don't put your leaves in a plastic bag. They will rot.

Standard analysis includes: nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, iron, manganese, zinc, copper, and boron.

Fees: \$5 per sample for N.C. growers

(\$25 for out-of-state; \$12 for N.C. researchers).

Turnaround time: 2 days from receipt.

Send samples to: NCDA&CS Agronomic Services—Plant Lab

Mailing address:

1040 Mail Service Center, Raleigh, NC 27699

Physical address:

4300 Reedy Creek Rd, Raleigh NC 27607

Phone: (919) 733-2655

For more detailed information, go to the Plant Tissue Analysis page at www.ncagr.gov /agronomi or contact the regional agronomist for your area.