

## TREE IMPROVEMENT RESEARCH AT PURDUE UNIVERSITY

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### Races of Scotch Pine for Christmas Trees

A study of the suitability of various races of Scotch pine for Christmas trees in Indiana is in progress. Seeds have been collected from promising stands, and in cooperation with the Soil Conservation Service and the State Department of Conservation, stock has been raised and test plantings established. New seed collections have been made in 1959.

### Jack Pine Seed Source Study

A cooperative study was started in 1954 with the Central States Forest Experiment Station to evaluate the effects of geographic seed sources upon the success of jack pine planted on old fields and coal-stripped lands in Indiana. A progress report on 5-year results has recently been prepared for publication by the Central States Station. This publication indicates that a small (0.6 foot), but significant difference in average height growth exists in favor of sources from the southern portion of the natural range of jack pine as compared with northern sources.

### White Pine Provenance Study

One field planting test has been made in 1959 as a part of a broad U. S. Forest Service study on racial variation in white pine. Severe drought in early summer has made this an interesting test of early survival, results of which will be summarized this winter.

### Hybrid Poplar Study

A planting of six Populus hybrids has been made to evaluate their relative growth rate in Central Indiana. The planting material was supplied as rooted cuttings by the Soil Conservation Service and planted in the spring of 1959.