

INTRASPECIFIC VARIATION
AMONG 200 STRAINS/ OF TWO-YEAR-OLD NORWAY SPRUCE

John B. Genys 2/

A study of Norway spruce seedlings from 200 locations in Europe was conducted for two years in Maryland (at the Forest Tree Nursery in Harmans). Heights of different progenies ranged from **5.3 cm. to 19.3 cm.** Fastest growing seedlings came from North German and sub-Alpine regions. The Baltic region and some high-elevation sections in the Alps and in the Carpathians were represented by seedlings that grew either slowly or were average. Two-year heights of different strains were strongly correlated ($r = 0.825$) to the dates of bud setting, ranging from August **8** until September 20, 1966. In general, the northern strains and the high-elevation strains set their terminal buds earlier and grew slower than the low-elevation sources from more southern regions.

1/ Contribution No. 366 of the Department of Inland Research, Natural Resources Institute, University of Maryland, College Park, Maryland 20762.

2/ Research Associate Professor.