

# Genetic variation in seedling progeny of ponderosa pine provenances

## Society of American Foresters - Introduction of ponderosa pine and Douglas

Description: -

- Zoology.

Salvation -- Buddhism.

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Southeast Asia -- Politics and government.

Birds -- Spain.

Forest birds -- Spain.

Architecture, Gothic -- France

Cathedrals -- France

Biscayne Bay (Fla.) -- Social conditions.

Regional planning -- Florida -- Biscayne Bay region.

Environmental policy -- Florida -- Biscayne Bay.

Magnetism -- Early works to 1800.

Electricity -- Early works to 1850.

Frontier and pioneer life -- Utah.

Warner family.

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Ese Ejja Indians -- Folklore.

Plants -- Variation.

Pine -- West (U.S.)

Ponderosa pine -- Provenances.

Ponderosa pine -- Seedlings.

Ponderosa pine -- Genetics. Genetic variation in seedling progeny of ponderosa pine provenances

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Sea grant special report ;

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Forest science. Genetic variation in seedling progeny of ponderosa pine provenances

Notes: Bibliography: p. 49-50.

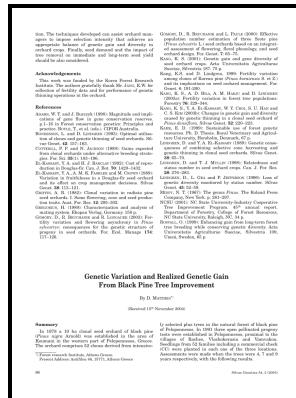
This edition was published in 1980

Tags: #Comparative #genetic #responses  
#to #climate #in #the #varieties #of #Pinus  
#ponderosa #and #Pseudotsuga  
#menziesii: #Clines #in #growth #potential

[PDF] Genetic variation in ponderosa pine : a 15

In Wyoming, for instance, at the lower limits of coniferous forest, ponderosa pine is found only on coarse-textured soils of sandstone origin where the limited moisture is more readily available than on fine-textured soils of limestone origin 27.

Introduction of ponderosa pine and Douglas



Filesize: 43.310 MB

Rocky Mountain Douglas-fir, blue spruce Picea pungens , lodgepole pine, limber pine Pinus flexilis , and quaking aspen Populus tremuloides.

[PDF] Genetic variation in ponderosa pine : a 15

Hail damage variation by seed source in a ponderosa pine plantation. The pine needle sheathminer Zelleria haimbachi can be locally severe in young stands. Pacific Southwest Forest and Range Experiment Station, Berkeley, CA.

Variation in seedling budburst phenology and structural traits among southwestern ponderosa pine provenances — Northern Arizona University

In Silvics of forest trees of the United States.

## **The Level**

The main mass of roots is concentrated within the top 60 cm 24 in of the soil mantle. Mountain pine beetle in ponderosa pine-prospects for silvicultural control in second-growth stands. The results provide concrete recommendations for upgrading the growth potential of the Argentine land races by importing germ plasm of specific provenances.

### **Variation in seedling budburst phenology and structural traits among southwestern ponderosa pine provenances — Northern Arizona University**

Nursery stock lifted in January in California had appreciable root elongation even when planted in soil with a water potential of less than -0. Although seldom killed, trees are retarded in growth when infestations are severe.

### **Genetic variation within *Pinus halepensis* Mill. provenances growing in different microenvironments in Israel**

Results suggest adaptation of low-elevation provenances to warm spring temperatures early budburst and aridity low specific leaf area , inherently faster growth of provenances from wet locations, and greater allocation to shoots in eastern provenances. Pacific Northwest Forest and Range Experiment Station, Portland, OR. Ponderosa pine stands, 51, 75, and 78 years old, growing in coarse-, medium-, and fine-textured soils in Montana, had their greatest root development in the medium-textured soils and the least in the fine-textured soils.

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