

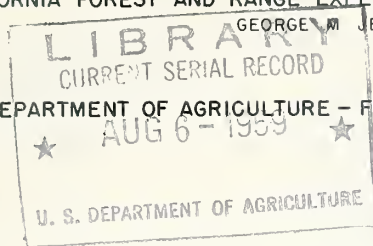
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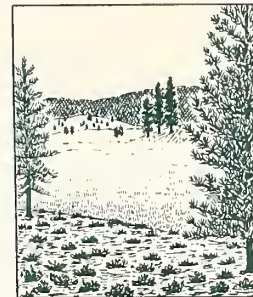
No. 97

# FOREST RESEARCH NOTES

CALIFORNIA FOREST AND RANGE EXPERIMENT STATION  
GEORGE W. JEMISON, DIRECTOR



U. S. DEPARTMENT OF AGRICULTURE - FOREST SERVICE



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## CALIFORNIA CONE CROP--1955

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California forest trees produced a good cone crop in only a few localities in 1955. Generally the crop was fair or less, with no crops or poor crops about as frequent as fair ones. These are the main conclusions from a study of cone-crop reports furnished the California Forest and Range Experiment Station by members of the California Division of Forestry and of the administrative branch of the U. S. Forest Service. The reports were based on ocular estimates in which the crop was rated as none, very poor, poor, fair, and good. Although subjective, the ratings provide valuable information for those planning to collect seed.

As an aid to seed collectors, the crop reports have been segregated according to the forest tree seed collection zones described by Fowells. <sup>1/</sup> This grouping (table 1), showed that the most promising localities for collecting seed of important species were as follows:

Redwood .....	Zone XIII
Giant sequoia ...	Zones IV and V
Sugar pine .....	Zone IV
Douglas-fir .....	Zone XI
Red fir .....	Zone II (lower part) and Zone IV (upper)
White fir .....	Zone IV
Coulter pine ....	San Benito County

A map of the collection zones is appended to this note, but since the seed crop varies widely in some zones, it is also advisable to consult field officers of the California Division of Forestry or the U. S. Forest Service.

<sup>1/</sup> Fowells, H. A. Forest tree seed collection zones in California. U. S. Forest Service. Calif. Forest and Range Expt. Sta. Res. Note 51, 5 pp., illus. 1946.

Table 1.--Summary of cone crops by species and seed zone, California, 1955

Species	: County or Seed : Collection Zone	: Cone Crop <u>1/</u>
<u>DOUGLAS-FIR:</u>		
Bigcone Douglas-fir ( <u>Pseudotsuga macrocarpa</u> )	IX	Poor
Douglas-fir ( <u>P. menziesii</u> )	II IV, V XI XII, XIII	Poor to fair None None to good Fair
<u>FIR:</u>		
Lowland white fir ( <u>Abies grandis</u> )	XIII	Fair
Red fir ( <u>A. magnifica</u> )	III II, IV V X	Poor to fair None to good None Fair
Silver fir ( <u>A. amabilis</u> )	X	Poor
White fir ( <u>A. concolor</u> )	II, III IV V X	Poor None to good None Fair
<u>PINE:</u>		
Bishop pine ( <u>Pinus muricata</u> )	XIII	Fair
Coulter pine ( <u>P. coulteri</u> )	Contra Costa San Benito	Poor to fair Good
Jeffrey pine ( <u>P. jeffreyi</u> )	I II, III, IV, V, VI, VIII, IX, X	Fair None to poor
Lodgepole pine ( <u>P. contorta</u> )	XIII	Fair
Monterey pine ( <u>P. radiata</u> )	XIII	Fair
Ponderosa pine ( <u>P. ponderosa</u> )	I II, IV V, VI, VIII, X	None to fair None to poor None
Sugar pine ( <u>P. lambertiana</u> )	II, III IV V, X	Very poor to poor None to good Poor
<u>SEQUOIA:</u>		
Giant sequoia ( <u>Sequoia gigantea</u> )	IV, V	Fair to good
Redwood ( <u>S. sempervirens</u> )	XII XIII	Fair Good

1/ Reported by technicians of the California Division of Forestry and the California Region, U. S. Forest Service.

# SEED COLLECTION ZONES, CALIFORNIA

- I NORTHERN EAST SIDE SIERRA
- II NORTHERN WEST SIDE SIERRA, HIGH SITE
- III NORTHERN WEST SIDE SIERRA, LOW SITE
- IV SOUTHERN WEST SIDE SIERRA, HIGH SITE
- V SOUTHERN WEST SIDE SIERRA, LOW SITE
- VI SOUTHERN EAST SIDE SIERRA,
- VII NORTHERN SUBALPINE
- VIII SOUTHERN SUBALPINE
- IX SOUTHERN CALIFORNIA
- X NORTH COAST PINE
- XI COAST RANGE DOUGLAS FIR
- XII NORTHERN REDWOOD
- XIII SOUTHERN REDWOOD

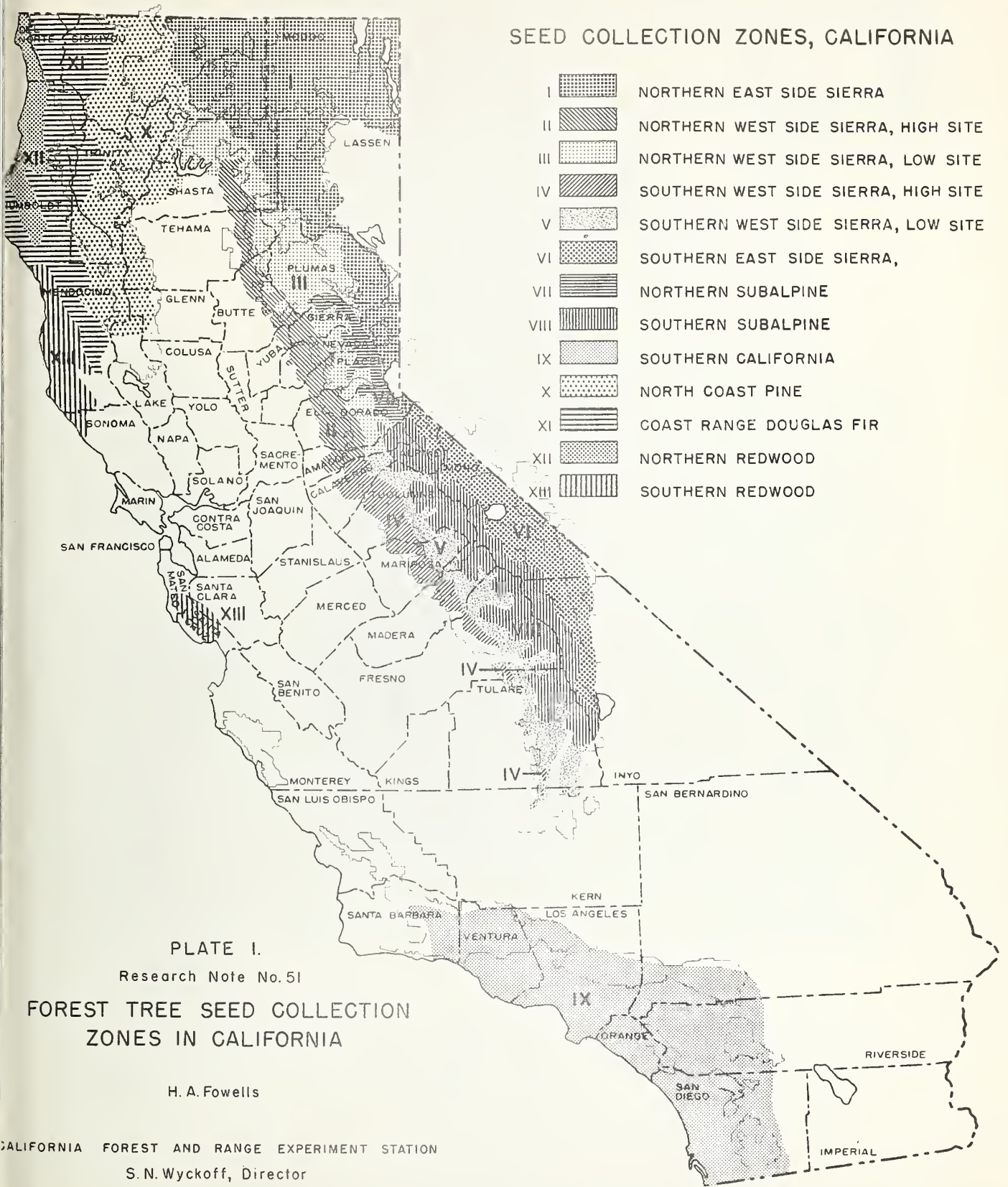


PLATE I.

Research Note No. 51

## FOREST TREE SEED COLLECTION ZONES IN CALIFORNIA

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