

**SEVEN BIENNIAL REPORT OF THE  
STATE BOARD OF  
HORTICULTURE OF THE STATE  
OF CALIFORNIA, FOR 1899-1900**

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by California State Commission of Horticulture

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**CALIFORNIA STATE COMMISSION OF HORTICULTURE**

**SEVEN BIENNIAL REPORT OF THE  
STATE BOARD OF  
HORTICULTURE OF THE STATE  
OF CALIFORNIA, FOR 1899-1900**



SEVENTH BIENNIAL REPORT

OF THE

STATE BOARD OF HORTICULTURE

OF THE

STATE OF CALIFORNIA,

FOR 1899-1900.



SACRAMENTO :

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1901.

## CALIFORNIA STATE BOARD OF HORTICULTURE.

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Commissioner for the Napa District.

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B. M. LELONG.....Secretary and Chief Horticultural Officer

ALEXANDER CRAW.....Quarantine Officer and Entomologist

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### OFFICES:

State Capitol, Sacramento.

Branch Office, Clay Street Dock, San Francisco.

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## CONTENTS.

	PAGE.
SUMMARY OF WORK OF THE BOARD.....	7
BENEFICIAL INSECTS.....	9
SYNOPSIS OF MR. COMPERE'S LABORS IN AUSTRALIA AND OTHER PLACES.....	10-17
HORTICULTURAL QUARANTINE.....	17-20
MEXICAN ORANGE MAGGOT.....	21
COÖPERATIVE MARKETING.....	22
REMOVAL OF THE GERMAN EMBARGO.....	23
MEMORIALS AND RESOLUTIONS AFFECTING THE FRUIT INDUSTRY.....	23-24
PUBLICATIONS OF THE BOARD.....	25-26
REVIEW OF THE FRUIT SEASON.....	27-55
Oranges, 33; Lemons, 34; Prunes, 35; Raisins, 37; Canned Fruits, 40; Dried Fruits, 43; Olives, 44; Apples, 47; Cherries, 48; Peaches, 49; Apricots, 49; Pears, 49; Figs, 49; Walnuts, 50; Almonds, 51.	
ACREAGE OF FRUIT IN THE STATE.....	56
REPORTS OF ALEXANDER CRAW.....	59-73
TWENTY-FIFTH STATE FRUIT-GROWERS' CONVENTION.....	77-208
<b>PROCEEDINGS OF FIRST DAY—</b>	
Annual Address of President Cooper.....	77
Economics of Production. By Wm. H. Mills.....	83
Resolutions by R. D. Stephens.....	91
Letter from Mrs. Leland Stanford.....	91
Report of California Fruit Growers and Shippers' Association.....	92
Marketing of California Fresh Fruit in the East. By Wm. B. Gester.....	96
Report of Committee on Transportation.....	102
Necessity for Expedited Service for Fresh Fruit Shipments. By Alden Anderson.....	104
Discussion on Transportation.....	107
Standing Committees.....	114
<b>PROCEEDINGS OF SECOND DAY—</b>	
The Year's Operations of the Cured Fruit Association. By Judge H. G. Bond.....	116
Advantages of Coöperation from a Packer's Standpoint. By Philo Hersey.....	124
Needs of Coöperation, Transportation, etc. By A. H. Naftzger.....	127
Report of Nicaragua Canal Committee.....	133
Discussion on Distribution, Transportation, etc.....	134
Address by President Benjamin Ide Wheeler.....	135
Forest and Irrigation. By Wm. E. Smythe.....	137
The Canning Industry. By J. W. Nelson.....	143
Ladies' Auxiliary Horticultural Association.....	147
Future Trade Possibilities in Canned and Dried Fruits. By Isidor Jacobs.....	147
Discussion on Transportation.....	155
<b>PROCEEDINGS OF THIRD DAY—</b>	
Appointment of Committee on Exhibits.....	158
Report of Committee on Foreign Consular Advices.....	158
Resolution—Reciprocity Tariff on Citrus Fruits.....	159
Coöperation Among Raisin-Growers. By T. C. White.....	160
The Raisin-Growers' Association, and Its Benefits. By Alex. Gordon.....	165
Discussion on the Raisin Industry.....	167

TWENTY-FIFTH FRUIT-GROWERS' CONVENTION—CONTINUED.	PAGE.
Resolution on the Labor Question .....	168
Appointment of Committee on Organization .....	169
Resolution Demanding Improved Transportation .....	169
Report of Committee on President's Address .....	170
Resolution Asking for a Weather Bureau Employé at San José .....	170
Meeting of the American Pomological Society .....	171
Report of Committee on Legislation .....	172
Phylloxera-Resistant Vines for California. By F. T. Bioletti .....	172
California Wines in France. By A. Sbarbero .....	181
The Best Method of Reestablishing our Vineyards. By John Markley, George Schoenwald, and J. G. Grundel .....	182
The Need of a National Horticultural Quarantine Law. By Alexander Craw .....	185
Protection to our Fruit Interests. By M. J. Daniels .....	187
<b>PROCEEDINGS OF FOURTH DAY—</b>	
Action on Resolutions .....	190
Our Export Fruit Trade and Export Packages. By B. N. Rowley .....	191
Selecting and Handling Fruit for Eastern Shipment. By F. H. Buck .....	193
Resolution—Preservation of Bird Life .....	195
Resolution—Pan-American Exhibition .....	196
Resolution—California Bureau in Washington .....	196
Resolution—Protection for the Meadow-Lark .....	196
Resolution—Reciprocity Treaties .....	197
Hybridization and Selection. By David Starr Jordan .....	197
Resolution—Nicaragua Canal .....	199
Standing Committees .....	199
The California Smyrna Fig. By G. C. Roeding .....	200
Resolutions of Respect to President Cooper .....	206
Report of Committee on Organization of Deciduous-Fruit Growers .....	207
<b>REPORTS OF COUNTY BOARDS OF HORTICULTURAL COMMISSIONERS. 211-254</b>	
Alameda County, 211, 213; Contra Costa County, 214; Fresno County, 214; Humboldt County, 216; Kings County, 219; Lassen County, 219; Los Angeles County, 220, 222; Madera County, 224; Orange County, 225, 226; Placer County, 227; Riverside County, 228, 231; Sacramento County, 232, 233; San Bernardino County, 234, 236; Santa Barbara County, 237, 239; Santa Clara County, 241; Santa Cruz County, 242; San Diego County, 243, 244; Stanislaus County, 246; Tehama County, 247; Tulare County, 248, 249; Ventura County, 251; Yolo County, 253; Yuba County, 254.	





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# REPORT.

OFFICE OF STATE BOARD OF HORTICULTURE,  
STATE CAPITOL, SACRAMENTO, CAL., December 31, 1900.

*To His Excellency HENRY T. GAGE, Governor, and the Honorable the  
Senate and Assembly of California:*

We have the honor to submit herewith this, our biennial report, showing the operations of the State Board of Horticulture for the years 1899-1900.

Respectfully submitted.

ELLWOOD COOPER,  
F. H. BUCK,  
WM. B. GESTER,  
THOS. A. RICE,  
H. WEINSTOCK,  
BEN M. MADDOX,  
A. BLOCK,  
W. J. HOTCHKISS,  
R. D. STEPHENS,  
Commissioners.

Attest:

B. M. LELONG, Secretary.

## SUMMARY OF WORK OF THE STATE BOARD OF HORTICULTURE.

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The work of the State Board of Horticulture may be divided under the heads "Entomological," "Horticultural Quarantine," "Experimental," "Publications," "Information," "Marketing," "The Introduction of Beneficial Insects," and "Remedies for Plant Pests and Diseases."

In each of these departments active and beneficial work has been done by the Board.

**ENTOMOLOGICAL.** From every part of the State insects are constantly being received for determination. Many of them are new species, but generally they are common ones with which the senders are unacquainted. These are all classified, their names and habits given, and, if destructive, the proper methods of checking their increase or reducing their numbers are given; if beneficial, the best methods of protecting and propagating them are furnished. By this means, farmers and fruit-growers are taught to discriminate between friend and foe, to preserve the one and to destroy the other.

**HORTICULTURAL  
QUARANTINE.** This is one of the most important departments of the Board. The greater part of our injurious insects are introduced species. In every section to which an insect is indigenous are found other insects that are parasitic upon it. This is Nature's method of preventing the overwhelming and destructive increase of any species. If, however, these destructive insects are introduced into a section where their natural enemies do not exist, their increase, being unchecked, is alarming and their destructiveness unlimited. Instances of this are seen in the work of the Gypsy Moth in Massachusetts, the spread of *Aspidiotus perniciosus* over a large portion of the Eastern States, and the destructive work of *Icerya purchasi* and other pests introduced into California before the establishment of our Horticultural Quarantine System. Under this system all plants, trees, shrubs, fruits, etc., coming into the State are carefully inspected by competent entomologists, and if found infested with pests not found in the State, they are returned to the point of shipment or destroyed; and if found infested with insects already here, are fumigated. Every foreign vessel arriving in any of