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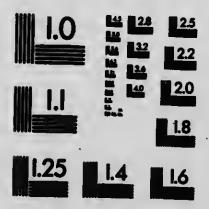
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ADDRESS

Delivered at the Annual Meeting of the B. C. Fruit Growers' Association, at Victoria, B.C.,

• January 7th, 1913 • •



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VICTORIA, B.C.

MR. THOMAS CUNNINGHAM
Inspector of Fruit Pests

ADDRESS

Delivered at the
Annual Meeting of the B.C. Fruit Growers' Association
at Victoria, B.C., January 7th, 1913

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MR. THOMAS CUNNINGHAM INSPECTOR OF PRUIT PESTS



Subsequently Repeated at the Central Farmers' Institute, Victoria January 22ud, 1913 337.3.



ADDRESS

Mr. President and Gentlemen:-

It is not my usual custom to read an address, nor would I do so now were it not that I am dealing with a subject of the utmost importance and far-reaching consequences to the great Fruit industry of British Columbia. The quotations and references, which I shall use, must be accurately reported, therefore I believe it right and proper that what I may be able to present to you today should be reduced to writing, so as to be available to all fruit-growers of the Province, many of whom cannot I ith us at this annual gathering.

Ever since the creation of man, and in all ages of man on earth, we have evidence from remotest antiquity that the agriculturist and horticulturist have suffered enormous loss by the depredation of destructive insects and plant diseases. No country in the world, as far as is known, is free from this scourge. Animals, including man, and plants suffer from infection.

Probably there is no part of the world that has suffered more than North America, particularly the United States. The annual loss due to insect pests in the United States, as published by the authority of the United States Department of Agriculture, now reaches the enormous of most of \$1,272,000,000. This is more than the entire expenditure of the National Government, including Pension Roll and the maintenance of the Army and Navy. I quote from the authority of Professor C. L. Marlatt in the Journal of Economic Entomology, 1909, and the same author in the Year Book of the Department of Agriculture of 1904.

The question wiii naturally arise why the United States suffer more than other countries. The reason is easy of explanation. It is owing largely to the enterprise of the agriculturists and horticulturists in searching the world for new varieties of fruits, cereals, plants and vegetables. Hundreds of species not common to this continent have been brought in from other parts of the world, including the Orient, the Mediterranean, Africa and as far north as Siberia. Australasia also has contributed largely to the list of economic plants of great value which have been brought into the States with the view of increasing the value of the products of the soil.

Many of these plants were infected with Scale and Boring insects which are kept under control by predaceous insects in their native country. Nearly all the predaceous insects fly, while the Scales adhered closely to the plant and the Borers were safely conceased in the body of the plants and trees, so that of course they were protected from the attack of their natural enemies. This accounts for the importation of the pests, and not the parasites which hold them in check.

Most of these importations occurred before the discovery of such protective measures as fumigation with Hydrocyanic Acid Gas and Carbon Bisulphide. In point of fact, there were no quarantine regulations govering the importations of new varieties of plants until long after many of them had been introduced into the United States. It was not until after the discovery of the San Jose Scale that any steps were taken to quarantine or inspect importations from the Far East, which is now known to be the home of some of the most destructive pests that afflict this country.

Not until the San Jose Scale had been widely distributed in California and several other States were any steps taken to bring this very destructive pest under control and prevent the introduction of other very serious pests. It is acknowledged by the highest entomological authorilities that over fifty per cent of the noxious insects that prey upon plants and animals in the United States have been imported from foreign countries. I will name a few: Coding Moth, imported from Europe; San Jose Scaie, from China and Japan; Oyster Shell Scale, from Europe; European Fruit Scale; Gypsy and Brown Tail Moths; Mediterranean Fruit Fiy. Ali these and many others have been imported direct from the countries producing the plants. The Hessian Fiy, one of the most destructive pests that infect wheat cereai, was imported from Europe, so that taking the whoie it of destructive insects, as stated above, over fifty per cent were imported.

Had a judicious system of quarantine bern adopted in the early history of North America, these destructive pests would have been kept ont, and much of this terrible annual ioss of \$1,272,000,000 would have been prevented.

While Canada may not sutter as much in proportion as the United States, still we have to pay our annual toil in the destruction of vegetables, grain and fruits. I am not sure that I can give a correct estimate of the annual loss of Canada, but I think it is safe to assume that it would bear about the same proportion as our neighbors to the South.

Fortnnately for us, British Columbia suffers less than any other section of North America. This is largely owing to the early preventative measures that were instituted nearly a quarter of a century ago. California ied the way to the adoption of quarantine inspection. Shortly after British Columbia feil into line, and the pioneer fruit-growers suggested to the Government the creation of a Board of Horticulture with power to formulate regulations for the inspection of nursery stock and fruit. It is greatly to the credit, I believe, of the borticultural pioneers that these preventative measures were introduced, and many of the most destructive pests have been kept out. If this Province is probably the cleanest country in the world today, I think it is largely owlng to the foresight of the pioneer fruit-growers.

We have the reputation today of being the only province in North America that is free from the Codling Moth, San Jose Scale, Gypsy and Brown Tail Moths and the several Fruit Flies. Shall this reputation be preserved, and how, is a matter that should receive the immediate consideration of the B. C. Fruit Growers' Association, the Central Farmers' Institute and the B. C. Entomological Society.

It devolves upon me to suggest the means that may be safely adopted for our protection. In doing this, I am following the lead of California again, and also the Federal Government of the United States.

On December 24th, 1911, the Governor of California called a special session of the State Legislature to consider the passage of a Quarantine Law, which would enable the Horticultural authorities to frame regulations for the better protection of the State from the introduction of insect pests and diseases.

The time allotted to me is too short to give you more than a few quotations from this valuable law, the title of which is:

"An Aet provided for the protection of Herticulture, and to prevent the introduction into this State of insects or diseases or animals injurious to fruit or fruit-trees, vines, hushes or vegetables, providing for a quarantine for the enforcement of this Aet, making a violation of the terms of the Aet a misdemeanor, and providing a penalty therefor: providing that said Aet shall be an argency measure and go into effect immediately, and repealing that certain Aet, cutitled 'An Aet for the protection of Horticulture, and to prevent the introduction into this State of insects or diseases or animals injurious to fruit or fruit-trees, vines, bushes or vegetables, and to provide for a quarautine for the enforcement of this Aet,' approved March 11, 1899."

Section 1 provides:

"Any person, persons, firm or corporation who shall receive, hring or canse to he hrought into the State of California, any nursery stock, trees, shrubs, plants, vines, cuttings, grafts, scions, buds or fruit pits, or fruit or vegetables, or seed, shall immediately after the arrival thereof notify the state commissioner of horticulture, or deputy quarantine officer, or quarantine guardian of the

district or county in which such nursery stock, or fruit or vegetables, or seed are received, of their arrival, and hold the same without nnnecessarily moving the same, or placing such articles where they may be harmful, for the immediate inspection of such atate commissioner of borticulture, or deputy quarantine officer or guardian. Provided, however, that all articles of nursery stock, trees, shruhs, plants, vices, cuttings, grafts, sclous, buds, fruit pits, fruits, vegetables or seed which are infested or infected with such species of iojorioos insects or their eggs, larvæ or popæ or other animal or plaot disease which may be or be liable to he injorious to the orchards, vioeyards, gardeos or farms within said State, shall be destroyed or reshipped out of the state as hereloafter provided. The said officer so making an Inspectioo shall oot permit any of the described articles so coming in contact with said infested or lofected articles or any articles which might coovey infection or infestation to he removed or taken from any such car, warehouse, depot, ship, dock, wharf or any other place notil such infection or lofestation shall have heeo destroyed."

Section 2: "Each carload, case, box, package, crate, bale or buodle of trees, shruhs, plants, vines, cottings, grafts, scions, buds or fruit pits, or fruit or vegetables, or seed imported or bronght into this state, shall bave plaioly and legihly marked thereoo in a conspicuous manour and place the name and address of the shipper, owner, or owners or person forwardlog or shipping the same, and also the oame of the person, firm or corporation to whom the same is forwarded or shipped, or his or its responsible agents, also the name of the conoty, state or territory where the coutents were grown and a statement of the cootents therein."

Section 4: "When any shipment of nursery stock, trees, vices, plants, shruhs, cuttings, grafts, scloos, fruit pits, vegetables or seed, or any other horticultural or agricultural product passing through any portion of the State of California in transit, is infested or infected with any species of injurious losects, their eggs, larvae or pnpæ or animal or plant disease, which would cause damage, or be liable to cause damage to the orchards, vineyards, gardeos or farms of the State of California, or which would be or liable to be, detrimental thereto or to any portion of said state, or to any of the orchards, vioeyards, gardens or farms within said state, and there exists danger of dissemination of such insects or disease while such shipmeot is in transit io the State of California, then soch shipment shall be placed within sealed containers, composed of metallic or other material, so that the same cannot be hroken or opened, or he liable to be broken, or opened, so as to permit any of the said shipment, insects, their eggs, larvæ or pupæ or animal or plant disease to escape from such sealed cootainers and

the said containers shall not be opened while within the State of California."

Section 5: "No person, persons, firm or corporation shall bring or cause to be brought into the State of California any fruit or vegetahies or host plant which is now known to be, or hereafter may become a host plant or host fruit of any species of the fruit fly family "Trypetidm" from any county, state or district where such species of "Trypetide" is known to exist and any such fruit, vegetahles, or host plant, together with the container and packing, shall be refused entry and shall be immediately destroyed at the expense of the owner, owners or agents."

Section 6: "No person, persons, firm or corporation shall hring or cause to be brought into the State of California any peach, nectarine, or apricot tree or cuttings, grafts, acions, buds or pits of such trees, or any trees budded or grafted npon peach-stock or roots that have been in a district where the disease known as 'peach yellows' or the contagious disease known as 'contagious peach rosette' are known to exist, and any such attempting to land or enter shall be refused entry and shall be destroyed or returned to the point of shipment at the option of the owner, owners or agent, and at his or her expense."

Section 7: "No person, persons, firm or corporation shall bring or cause to be brought into the State of California any injurious animals known as English or Australian wild rahhit, flying fox, mongoose or any other animal or animals detrimental to horticultural or agricultural interests."

Section 8: "Any person, persons, firm or corporation violating any of the provisions of this Act shall be guilty of a misdemeanor and shall be punished by imprisonment in the county jail for a period not exceeding six mouths, or by a fine not exceeding five hundred dollars, or by both such like and imprisonment."

Acting under authority of this Law, the State of California has quarantined the States of Florida, North and South Carolina, Georgia, Alabama. Mississippi, Louisiana and Texas, or any other section known to harbor either of the "Aleyrodes citri" or "Aleyrodes nubifera."

"Quarantine Order No. 15-August 30, 1912."

WHEREAS, a quarantine order, No. 1, issued March 6, 1906, was declared against the citrus white fly (Aleyrodes citri) from the States of Florida and Louisiana, and only from these states, and:

- WHEREAS, we have information from the eotomologists of the United States Agricultoral Experiment Stations of the South Atlantic and Gulf States that this same white fly (Aleyrodes citri) is widely distributed in North Carolina, South Carolina, Georgia, Florida, Alahama, Mississippi, Louisiana and Texas; and.
- WHEREAS, It has been received into California on nursery stock from North Carolina and Mississippi, and,
- WHEREAS, another species of the white fly (Aleyrodes nubifera) is present to Fiorida, and.
- WHEREAS, both of these white flies are serious pests, being regarded in Florida as second to nooe in their injurious work on citrus and other trees; and,
- WHEREAS, there is great danger of introducing "Aleyrodes citri" into the citrus groves of California on plants or oursery stock from each of the states aforesaid at the present time; and,
- WHEREAS, there is daoger of said "Aleyrodes nohifera" heiog Introduced into California from Florida, and ioto the South Atlantic and Gulf States from Florida, and from theoce into California; therefore, It is
- DECLARED: That a horticultural quarantine be and is herehy estabilshed agaiost fruits and vegetahles (excepting tomatoes), oursery stock, scioos, grafts, hods, enttings, fruit pits, orange seeds, trees, vioes, plants and shruhs of all kinds imported from the States of North Carolina, Sooth Carolina, Georgia, Florida, Alahama, Mississippi, Louisiana, and Texas, or any other section known to harbor either "Aleyrodes citri" or "Aleyrodes nohifera," or both, Into the State of California; all quarantine guardians and deputies of the State Horticultural Commission are herehy instructed and required to hold any and all such fruits and vegetahles (excepting tomatoes), nursery stock, scioos, grafts, hods, fruit pits, orange seeds and plants of ail kinds, subject to the order of the shippers or owners thereof, for exportation not of the State, or to be destroyed."

"Quarantine Order No. 14-Angust 13, 1912."

WHEREAS, the alfaifa fields of the following counties of Utah: Salt Lake, Tooeie, Juap, Utah, Wasatch, Sommitt, Davis, Morgao, Weher, Boxelder, Cacbe and Rich; of the two counties of Idaho: Oneida and Bear Lake; and of Uintah County in the State of Wyoming are infested with the aifalfa weevil (Phytonomus posticus); and,

- WHEREAS, the devastation of this insect is very serious, often ruining the entire crop, and,
- WHEREAS, our alfalfa prodoct is very important, the estimated cash value the present year being a little short of \$50,000,000; and,
- WHEREAS, there is danger of oor receiving this pest through the importation of alfalfa hay from the couoties aforesaid, as determined hy the chief deputy of this Commission, who has visited and thoroughly studied the conditions in the devastated area;
- THEREFORE, it is declared that a quarantine he, and the same is hereby established against all alfalfa hay from the several counties hereinhef are mentioned of Utah, Idaho and Wyoming. All horticultural commissioners, local inspectors and deputles of the State Horticultural Commission are hereby instructed and required to refuse shipment into the State of California of all alfalfa hay from the said quarantined counties. If such hay is shipped into the State by any oversight, it must at once be destroyed or returned to the shipper. All transportation companies are ordered to refuse for shipment into California any alfalfa hay from the said infected counties."

(A. J. COOK,)
State Commissioner of Horticulture.

Sacramento, Cal.

"Quarantine Order No. 10-January 29, 1912."

- WHEREAS, There exists in the nurrerles of Santa Clara, Alameda, Santa Cruz and San Mateo econties a serious iosect pest, known as the California or Western peach tree Borer, "Sanninoidea pacific" Riley; and,
- WHEREAS, Several affected trees have been shipped from said norseries into other counties of California within the past few days; and,
- WHEREAS, Said Insect Is a serious evemy of all stone-fruit trees, as the borers girdle or seriously would the crown of infested peach, plum, aprieot, prune, nectarine, cherry and almond trees; and,
- WHEREAS, This caterpillar or borer is not known to be a pest in other counties and its introduction would be a serious injury, and must be resisted; and,
- WHTREAS, The borer wheo yoong and small will elode the keenest Inspectioo; therefore, it is hereby

ORDERED, directed and declared: That a quarantine be and the same is hereby established in accordance with Section 2319b of the Political Code of the State of California, against the shipment of peach, pinm, apricot, prune, nectarine, cherry and almond trees from any of the aforesald counties."

(A. J. COOK,)
State Commissioner of Hortleulture.

Sacramento, Cal.

These are fair samples of the Quarantine Regulations that have been enforced by the horticultural authorities of California. But they were not satisfied with their own State Law. A movement was set on foot early in 1912 to bring pressure to bear upon the Federal Government to pass a general quarantine Act covering the importation of plants and plant products throughout the United States. This Act was approved by the President of the United States, August 20th, 1912.

The time allotted to me will not permit of reciting the provisions of the entire Act. I will, therefore, content myself with giving you quotations from the most important sections:

Section 4: "That no person shall ship, or deliver for shipment from one state or territory or district of the United States into any other state or territory or district, any such imported nursery stock, the case, hox, package, crate, hale or hundle whereof is not plainly marked so as to show the general nature and quantity of the contents, the name and address of the consignee, and the country and locality where such stock was grown, unless and until such imported stock has been inspected by the proper official of a state, territory, or district of the United States."

Section 5: "That whenever the Secretary of Agriculture shall determine that the unrestricted importation of any plants, fruits, vegetables, roots, hulbs, seeds, or other plant products not included by the term 'nursery stock' as defined in Section 6 of this Act may result in the entry into the United States or any of its territories or districts of injurious plant diseases or insect pests, he shall promulgate his determination, specifying the class of plants and plant products the importation of which shall he restricted and the country and locality where they are grown, and thereafter, and until such promulgation is withdrawn, such plants and plant products imported or offered for import into the United States or any of its territories or districts shall be subject to all the

provisions of the foregoing sections of this Act; provided, that before the Secretary of Agriculture shall promulgate his determination that the nurestricted importation of any plants, fruits, vegetables, roots, bulbs, seeds, or other plant products not included by the term 'nursery stock' as defined in Section 6 of this Act may resolt in the entry into the United States or any of its territories or districts of injurious plant diseases or loseet pests, he shall, after due notice, give a public hearing, under such rules and regulations as he shall prescribe, at which hearing any interested party may appear and he heard, either in person or by attorney."

Section 6: "That for the purpose of this Act the term 'nursery stock' shall include all field-grown florists' stock, trees, shruhs, vices, cuttings, grafts, scions, huds, fruit plts and other seeds of fruit and ornamental trees or shruhs, and other plants and plant prodocts for propagation, except field, vegetable, and flower seeds, beddlog plants, and other herbaceous plants, bulhs and roots."

Section 7: "That whenever, in order to prevent the introduction ioto the Uoited States of any tree, plant or fruit disease or of any injurious insect, new to or not theretofore widely prevalent or distributed within and throughout the United States, the Seeretary of Agriculture shall determine that it is necessary to forhid the importation into the United States of any class of corsery stock or of any other class of plants, fruits, vegetables, roots, hulhs, seeds, or other plant prodocts from a country or locality where such disease or insect infestation exists, he shall promolgate such determination, speelfying the country and locality, and the class of uursery stock or other class of plants, fruits, vegetables, roots, bulhs, seeds, or other plant prodocts which in his opinioo should be excluded. Following the promulgation of such determination hy the Secretary of Agriculture, and ontil the withdrawal of the said promulgation hy hlm, the importation of the class of nursery stock or of other class of plants, fruits, vegetables, roots, hulhs, seeds, or other plant products speelfied in the said promolgation from the eouotry and locality therein named, regardless of the use for which the same is intended, is hereby prohibited; and ontil the withdrawal of the said promolgation hy the Secretary of Agricolture, and notwithstaoding that such class of oorsery stock, or other class of plants, fruits, vegetables, roots, bulbs, seeds, or other plant produets be accompanied by a certificate of Inspection from the country of importation, no person shall import or offer for entry into the Uoited States from any country or locality specified in soch promulgation, any of the class of oursery stock or of other class of plants, fruits, vegetables, roots, hulbs, seeds, or other plant products camed therein, regardless of the use for which the same

is Intended; provided, that before the Secretary of Agriculture shall promulgate his determination that it is necessary to forbid the importation luto the United States of the articles named in his section he shall, after due notice to interested parties, give a public hearing, under such rules and regulations as he shall prescribe, at which hearing any interested party may appear and he heard, either in person or hy attorney; provided further, that the quarantine provisions of this section, as applying to the white-plue bilster rust, potato wart, and the Mediterranean Fruit Fly, shall hecome effective upon the passage of this Act."

Section 8: "That the Secretary of Agriculture is authorized and directed to quarantine any state, territory, or district of the United States, or any portion thereof, when he shall determine the fact that a daugerous plant disease or insect infestation, new to or not theretofore widely prevalent or distributed withlu aud throughout the United States; exists in such state or territory or district; and the Secretary of Agriculture is directed to give notice of the establishment of such quarantine to common carriers doing business in or through such quarantined area, and shall publish in such newspapers in the quarantined area as he shall select notice of the establishment of quarantine. That no person shall ship or offer for shipment to any common carrier, nor shall any common carrier receive for transportation or transport, nor shall any person carry or transport from any quarantined state or territory or district of the United States, or from any quarantined portlon thereof, into or through any other state or territory or district, any class of uursery stock or any other class of plants, fruits, vegetables, roots, hulhs, seeds, or other plant products specified in the notice of quarantiue except as hereivafter provided. That it shall he unlawful to move, or allow to he moved, any class of nursery stock, or any other class of plants, fruits, vegetables, roots, hulhs, seeds, or other plant products specified in the notice of quarantine here iuhefore provided, and regardless of the use for which the same is intended, from any quarantined state or territory, or district of the United States, or quarantined portion thereof, iuto or through any other state or territory or district, in manner or method or under conditions other than those prescribed by the Secretary of Agriculture."

Under authority of this Act, the Secretary of Agriculture for the United States has quarantined large sections of the States of Maine, New Hampshire, Vermont, Massachusetts, Connecticut and Rhode Island. This quarantine embraces coniferous trees, such as spruce, fir, hemlock, pine, juniper, cedar, arbor vitæ, and decorative plants, auch as holly and laurel; forest plant products, such as logs, tan-bark, posts, poles, railroad ties, cordwood and inmber, and all field-grown florists' stock, trees, shrubs, vines, cuttings and other plant products for planting or propagation, and these shall not be moved or allowed to be moved, inter-state, or to any point outside the quarantined area, nntil such plants and plant products have been inspected by the United States Department of Agriculture, and pronounced free from the Gypsy Moth. Every crate, box, bale or other bundle of plant products, of which inspection is required by these regulations, shall be plainly marked with the name and address of the consignor, and shall bear a certificate showing that the contents have been inspected by the United States Department of Agriculture.

Carload or other bulk shipments of plants and plant products, for which inspection is required, shall not be transported or offered for transportation inter-state, by cars, boats or other vehicles, unless each shipment is accompanied by a certificate showing that the plants and plant products have been inspected by the United States Department of Agriculture, and pronounced to be free from moth infestation. Certificates of inspection will be issued only for plants and plant products which have been actually inspected by the United States Department of Agriculture.

On November 25th, 1912, until further notice, by virtue of said Section 8 of the Act of Congress, approved August 20, 1912, it shall be unlawful to move in inter-state commerce, any of the above described plants or plant products from the areas herein quarantined, except in accordance with these regulations and amendments thereto.

On the 20th September, 1912, the Secretary of Agriculture issued a quarantine against the plant disease known as "Potato Wart," "Potato Canker," "Black Scab," and so forth, prohibiting the importation into the United States of potatoes from Newfoundland; the Islands of St. Pierre and Miquelon; Great Britain, including England, Scotland,

Wales and Ireland; Germany and Austria-Hungary. The quarantine reads as follows:

"Now, therefore, I, Willet M. Hays, Acting Secretary of Agriculture, under anthority conferred by Section 7 of the Act approved Angust 20, 1912, known as the 'Piant Quarantine Act,' do bereby declare that it is necessary, in order to prevent the introduction into the United States, of the disease known as 'Potato Wart,' 'Potato Canker,' 'Biaek Scab' and so forth, to forbid the importation into the United States from the hereinbefore named countries, of the following species, namely, the eommon Irisb Potato, 'Soiannm tuberosnni.'"

Quarantine No. 2, against the Mediterranean Fruit Fly. The United States have quarantined their own favorite colony, the Territory of Hawaii. The quarantine reads as follows:

"Now, therefore, I, Willet M. Hays, Acting Secretary of Agriculture, under the authority conferred by Section 8 of the Act approved Angust 20, i912, known as "The Plant Quarantine Aet,' do bereby quarantine said Territory of Hawaii, and do probibit, by this notice of quarantine No. 2, under the authority and discretion conferred on the Secretary of Agriculture by said Section 8 of the Act of Congress approved Angust 20, 1912, the movement from the Territory of Hawaii into or through any other State, Territory, or District of the United States of the following fruits, seeds, vegetables, and other piant products:

Alligator pears Limes Carambolas Loquats Chinese ink berry Mangos Chinese orange Mock orange Chinese plnms Mountain appie Coffee berries Natai, or Kafir, plum Damson pinm Oranges Eugenias Papaya Figs Peaches Grapes Persimmons Grapefruit Priekly pears Green peppers Rose appie Guavas Star appie Kamani seeds String beans Kumquats.

"Hereafter, and nntil further notice, by virtue of said Section 8 of the Act of Congress approved August 20, 1912, it

Tomatoes

ehall be unlawful to move eny of the fruits, see, , vegetables, or other plant products herein named from the Territory of Hewaii into or through any other State, Territory, or District of the United States, regardless of the use for which the same is intended."

Done et Weshington this 18th day of September, 1912. Witnese my hand and the seal of the U. S. Depertment of Agriculture.

WILLET M. HAYS,
Acting Secretary of Agriculture.

Quarantine Order No. 5-"The Cotton Boll Weevil."

In order to prevent the introduction of the cotton boll weevil, "Anthonomns grandis," into the Stete of Arizona, it is hereby ordered:

- (e) That the introduction of cotton seed into the Stete of Arizona from eny other state or territory, or from any foreign country, in which the cotton boll weevil is known to exist, is hereafter prohibited.
- (b) That this querantine order shall be immediately effective npon proper notification of persons concerned, egainst the following states and countries: Texas, Oklahoma, Arkansas, Louisiana, Mississippi, Alebama, Florida, Republic of Mexico, Guatemala, Costa Rica and Cuha.
- (c) That this quarantine order shall be extended to any state, territory or country in which the cotton boil weevil may hereafter be discovered, upon public announcement by the Arizona State Entomologist.
- (d) That ail persons, firms or corporations in the State of Arizona are prohibited from having possession of, transporting, selling or giving awey any cotton seed introduced into the State in violation of this order.

(Adopted November 1, 1912).

"Quarantine Order No. 6-California Red and Yellow Scales."

In order to prevent the introduction of either the California red (Chrysomphains aurantii), or the yellow scale (Chrysomphains anrantii var. citrinns) into the State of Arizona, it is herehy ordered:

(a) That the introduction of citrus nursery stock, either budded or seedling, into the State of Arizona, from any county in the

State of California, with the exception of Tulare and Freezo, is prohibited.

- (b) That this order shall not be construed to interfere with the introduction into the State of citrus bud wood under the provisions of the Arizona crop pest law providing for the inspection of compensate of such material at destination.
- (c) That all persons, firms, or corporations in the State of Arizona are prohibited from having possession of, transporting, selling or giving away any citrus stock introduced into the State in violation of this order.

(Adopted November i, 1912).

(Extract from Monthly Bulletin No. 10, State Commission of Horticuiture—Sacramento, California.)

"Arisona and Inspection of Mexican Fruits."

It will be interesting to all California to know that Arizons has recently passed a law revising and giving added power to those in charge of the horticultural work there. With regard to the new work in Arizona, Dr. A. W. Morrill, State Entomologist, writes the following:

"The Commission of Agriculture and Horticulture under our new law has informally adopted a quarantine restriction prohibiting the importation of mangoes, guavas, and oranges from Mexico. This quarantine order will be formally adopted as soon as the members have qualified for their new appointments under the amended law, which I expect will be in the course of a few days. During the next few weeks I shall be busy organising our inspection service, and I expect that before the end of September I will have completed arrangements for the protection at Nogales similar to that which you have in California at your Pacific ports. As soon as the quarantine order of the Commission has been formally agreed upon I will send you a copy. These orders will include a quarantine order against white flies affecting citrus, the aifaifa weevil, and the Mexican orange maggot."

It will be thus seen that the United States are determined to prevent the introduction and spread of either destructive insects and plant diseases. This leads up to the question of the protection of our own favored Province.

Hitherto we have been using such preventative measures as the Regulations of the Board of Horticulture pro-

vide. Ali imported nursery stock is carefully dealt with, and our present system is found to be fairly adequate, but the time may come when it will be necessary to exclude the importation of nursery stock from countries known to be infected with dangerous pests and diseases not common to British Columbia.

We have also carefully inspected, as far as possible, imported fruit, grain and vegetables, but the time has come when owing to the large importation of fruit, it is utterly impossible to adequately protect this Province.

During the year 1912 there were imported into Vancouver sione:

Boxes apples	200,795
Half-boxes appies	
Barreis appies	
Boxes Crab Appies	
Half-boxes crab appies	
Boxes pears	
Half-boxes pears	
Boxes plums	
Boxes peaches	
Boxes apricots	
Boxes nectarines	
Boxes prunes	
Boxes quince	
Total number packages	380,451

which I think would fairly represent half the importations into this Province of deciduous fruit from countries known to be infected with the Codling Moth, San Jose Scale and other destructive pests. As practically all this fruit was wrapped, and a thorough inspection would involve the unwrapping and inspection of each individual fruit, you will see how utterly impossible it is, no matter how careful we may be, to prevent the introduction of these destructive pests. It is a physical impossibility to unwrap, inspect, rewrap and pack all this fruit, and restore it to the con-

dition in which it is found when the packages are opened. It would involve the labor of over one hundred experts to handle the frult properly in Vancouver alone, and then there is the added danger of infection being brought ln ln infected cars.

Many times during the year 19i2 we have found cars badly infected with larvæ of the Codling Moth. These cars containing the larvæ are shipped throughout the Province, and if transformation from the cocoon stage to the moth occurs while the cars are passing through the Province, certain infestation is sure to follow.

In a word, under our present system it is utterly lmpossible to guarantee the protection of the country from the introduction of the Coding Moth and the Peach Worm.

I think the time has arrived when we should seek greater protection from the Dominion Government. In doing so, we are following the lead of California and the United States Federal Government. Surely we can make no mistake in adopting protective measures which are now being rigidly enforced by our neighbors, with whom we are in constant communication.

I have, therefore, drafted the following resolution, which I will submit for the consideration of this Convention:

- WHEREAS, The policy of the Dominlon Government of Canada and the Provincial Government of British Columbla, respectively, has been for many years directed toward the encouragement of immigration into this Province, and;
- WHEREAS, The aforesaid Governments have jointly and severally, by exhibitions, lectures, circular letters, bulletins and other means, pointed out to the intending settlers the splendid advantages that British Columbia offers, by reason of her climate, 30il, geographical position and extensive markets, and;
- WHEREAS, Both the aforesaid Governments have from time to time, by numerous methods, held out to the

intending settlers unmistakable assurance that the fruit industry would be fostered and protected by such legislation as may be found necessary in the development of the borticultural industry, and;

- WHEREAS, The effect of such assurance has resulted in large and ever-increasing areas of agricultural land being planted in orchards—many millions of dollars have been invested and numerous settlers of a very superior character have embarked in the fruit industry, greatly to the advantage of the Dominion and the Province, and;
- WHEREAS, The importation of trees and plants during the three years ending December 31, 1911, reached the enormous total of 8,975,663, which, when added to the output of our local nurseries, will swell the total to considerably over 10,000,000 trees and plants, (this is the best evidence of the great expansion of the fruit industry) and;
- WHEREAS. There is undoubted evidence before this Association that this valuable in lustry is now, and bas been for some time, threatened with very serious danger by the importation of insect pests and diseases in fruit and fruit packages infected with such pests as Codling Moth, "Carpocapsa pomonella," which attacks apples, pears, crab-apples and quinces, also several destructive Scale insects, such as "Aspidiotus perniciosus," "Aspidiotus rapax," "Saissetia oleæ," "Lepidosaphes ulmi" and several other Scales of economic importance, also the very destructive Peach Worm, technically known as "Anarsia lineatella," which is reported by the Horticultural authorities of California as being responsible for the annual destruction of from twenty-five to thirty per cent of the entire peach crop of California, and;
 - WHEREAS, The imminence of the danger of the introduction of these destructive pests is abundantly proved by the returns of fruit condemned for infection at the

Port of Vancouver during the four years ending December 31, 1912, which are as follows:

Packa	ges Declduous Fruit
1909	12,351
1910	8,394
1911	
1912	16,949
Total number	44,893

besides some 27 cars intended for this market, but were diverted by reason of their infection, the shippers not caring to run the risk of condemnation, and;

WHEREAS, The United States Federal Government, in Congress assembled in the month of August, 1912, did enact a General Quarantine Law, whereby nursery stock, plants, fruits, vegetables, bulbs, seeds or other plant products may be excluded from entering the United States and its territories when such nursery stock, plants, fruits, vegetables, bulbs, seeds or other plant products are shipped from any country known to be infected with diseases and insect pests not commonly found in the United States and its territories, and;

WHEREAS, The States of California and Arizona have already put into force the provisions of the Federal Quarantine Act, against the States of North Carolina, South Carolina, Georgia, Florida, Alabama, Louisiana, Texas, Utah and Hawaii, or other territory infested with certain insect pests, also the following countries foreign to the United States, namely, Newfoundland, the Islands of St. Pierre and Miquelon; Great Britain, including England, Scotland, Wales and Ireland; Germany and Austria-Hungary; therefore,

BE IT RESOLVED, That this Association respectfully, but very earnestly, urge the Dominion Government to enact such legislation as will exclude deciduous fruit, such as apples, pears, crah-apples, quinces, peaches,

apricots and plums from being imported into this Province from countries, states and provinces known to be infected with the beforementioned insect pests or other insect pests and diseases, not widely prevalent or distributed within or throughout the Province of British Columbia.

I may say that I have already submitted this resolution to several Boards of Trade throughout the Province, and purpose submitting it to every Board of Trade throughout British Columbia, requesting their co-operation and assistance.

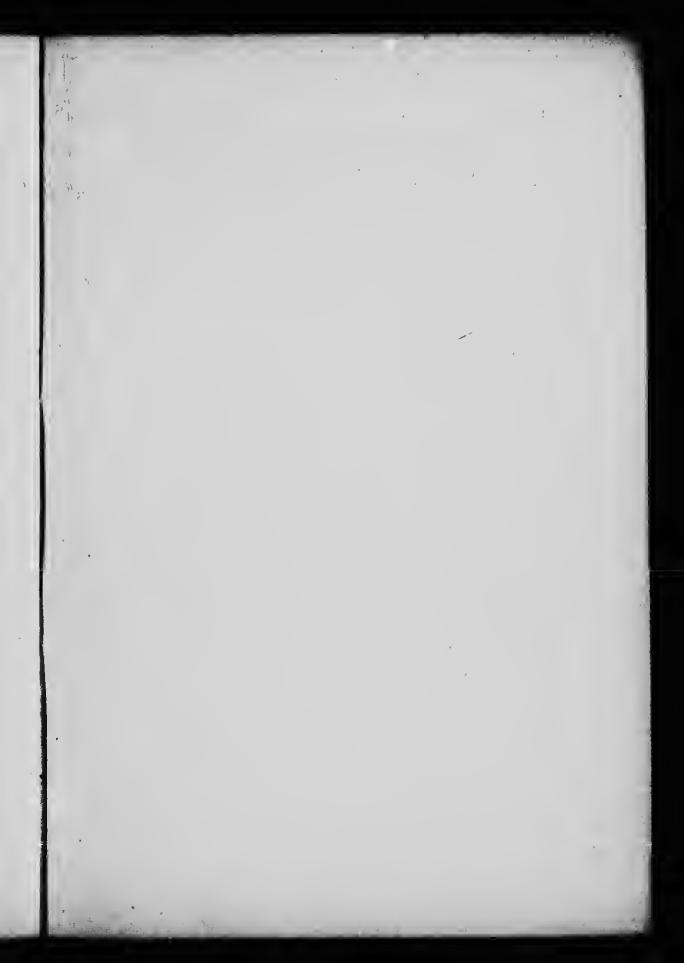
It has been kindly received wherever it has been presented. At every meeting, except one, the resolution has been adopted unanimously, by a standing vote. I have found only two dissenting voices in the sections of the Province visited.

I plead most earnestly for the protection of the reputation of our beloved Province. It is not a question involving any difference of political opinion or affecting trade in the slightest degree.

The question resolves itself into this: Shall we maintain our splendid reputation? Shall we protect the fruit-grower from the expense of fighting pests and diseases, from which we are now immnne?

This can only be done by quarantining countries that are known to be infected.

Fruit inspection has served a good purpose this far, but it is no longer a safe and practical protection.







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