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REPORT OF THE MISSOURI FOREST SERVICE  
DURING THE YEAR 1918  
MISSOURI FOREST SERVICE  
1919

REPORT OF THE WHITE PINE BLISTER RUST WORK  
CARRIED ON IN THE TERRITORY UNDER THE  
SUPERVISION OF THE MISSOURI OFFICE  
FIELD SEASON 1918.

\*\*\*\*\*

By

Alfred H. W. Povah

and

George A. Root.

THE STATE OF TEXAS, COUNTY OF DALLAS,  
BEFORE ME, the undersigned authority, on this  
\_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_,  
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Witness my hand and seal of office

\_\_\_\_\_

Notary Public in and for the State of Texas

REPORT ON THE WHITE PINE BLISTER RUST WORK

CARRIED ON IN THE TERRITORY UNDER THE

SUPERVISION OF THE MISSOULA OFFICE

FIELD SEASON 1918.

\*\*\*\*\*

The territory covered by the blister rust workers in the jurisdiction of the Missoula Office includes: the entire states of Montana and Idaho; all of Wyoming except Sweetwater County; the Black Hills Region of South Dakota; and Spokane and Pend Oreille Counties of the State of Washington.

Five field assistants, including A. H. W. Povah, who had general supervision over the field work in this territory from the beginning of the season to September 1, and George A. Root from September 1 to the present time, were employed during the season just closed to inspect currants, gooseberries, and five-needle pines for the blister rust fungus (*Cronartium ribicola*).

REPORT OF THE BOARD OF LAND COMMISSIONERS

FOR THE YEAR ENDING 1904

AND THE STATE OF WASHINGTON

1904

1904

The territory covered by the District of Columbia  
in the jurisdiction of the District of Columbia  
entirely within the limits of the District of Columbia  
District of Columbia; the District of Columbia  
and Spokane and Lewis and Clark Counties of the State of  
Washington.

Five hundred and thirty-one, including the  
and had general supervision over the land work in this  
territory from the beginning of the season to September 1,  
and since that time from September 1 to the present time, were  
employed during the season just closed to inspect  
possessions, and to make plans for the District of  
Columbia (District of Columbia).



PERSONNEL OF BLISTER MUST WORKERS.

In charge: Dr. James R. Weir

In charge of field work:

Dr. Alfred H. W. Povah

Mr. George A. Root

Field Assistants:

Mr. Norman W. Scherer

Mr. Ferdinand S. Wolpert

Mr. Joseph Yencso

DIVISION OF THE DISTRICT AMONG FIELD MEN.

On view of the shortage of men available for the work, it was found necessary to reduce the number of men to the minimum. Consequently, each man had a larger territory than under normal conditions. The districts given the field men will be referred to as sub-districts, in order to conform to last year's report. Following is a list of the sub-districts covered by the field assistants, together with their headquarters:

STATEMENT OF THE COMMISSIONERS OF THE GENERAL LAND OFFICE

In exercise of the powers conferred upon me by the Statute in that behalf made, I have caused a survey to be made of the lands in the County of ...

And I have caused a plan of the same to be made, and a list of the same to be drawn up, and the same to be laid before the Board of Commissioners for the General Land Office, and the same to be approved by the Board, and the same to be published, and the same to be sold by the Commissioners of the General Land Office, and the same to be deposited in the Public Office, and the same to be made available for the use of the public.

Witness my hand and seal at the City of London, this ... day of ... 19...

STATEMENT OF THE COMMISSIONERS OF THE GENERAL LAND OFFICE

In view of the importance of the subject, and the necessity of having a full and complete record of the lands in the County of ...

It is the duty of the Commissioners of the General Land Office to have a full and complete record of the lands in the County of ...

And I have caused a survey to be made of the lands in the County of ...

And I have caused a plan of the same to be made, and a list of the same to be drawn up, and the same to be laid before the Board of Commissioners for the General Land Office, and the same to be approved by the Board, and the same to be published, and the same to be sold by the Commissioners of the General Land Office, and the same to be deposited in the Public Office, and the same to be made available for the use of the public.

Witness my hand and seal at the City of London, this ... day of ... 19...

Subdistrict One

This was partly covered by Field Assistant Joseph Yencso, whose headquarters was Great Falls, Montana, and by George A. Root, whose headquarters is Missoula, Montana. This subdistrict includes the entire state of Montana.

Subdistrict Two

Field Assistant Norman W. Scherer, whose headquarters were at Spokane, Washington, was in charge. This district includes the entire state of Idaho, and Pend Oreille and Spokane Counties in Washington. The latter county was covered by Assistant in Charge, George A. Root, who also covered a portion of Idaho in conjunction with Mr. Scherer. This state is still uncompleted.

Subdistrict Three

Field Assistant Ferdinand S. Wolpert, with headquarters at Sheridan, Wyoming, was in charge. This district includes the entire state of Wyoming, with the

Administrative

This was first covered by Field Assistant  
George Jones, whose report was dated 1/15/41.  
It was then covered by George A. Jones, whose report is  
dated 1/22/41. This material includes the entire  
state of Indiana.

Administrative

This material covers the reports of  
inspectors who at various times, and in  
this district include the entire state of Indiana, and  
first cover the period beginning in 1937. The  
latter reports are covered by reports in these  
reports, who also cover a portion of those in  
Indiana and the reports. This case is still  
open.

Administrative

This material includes the reports of  
inspectors at various times, and in  
district include the entire state of Indiana, with the

exception of Sweetwater County; and the Black Hills Region of South Dakota. Mr. Wolpert was unable to complete the work in his district before leaving for Camp Dodge, Iowa on July 22. Dr. Weir also did some inspection work in this state, but at present it is far from being completely covered.

MANNER IN WHICH THE WORK WAS DONE.

The month of May was spent by A.H.W. Povah with the assistance of Mr. Joseph Yencso, in sorting and filing by counties and towns the blue cards prepared by Mr. Stillinger in Oregon and Washington. These cards record the sales of currants, gooseberries, and five-needle pines in this district by the following firms:

Western Nurseries Covered by Blue Cards.

Albany Nurseries,	Albany, Oregon
Blackfoot Nurseries,	Blackfoot, Idaho
Capital City Nursery Co.,	Salem, Oregon
Columbia & Okanogan Nursery Co.,	Wenatchee, Washington
Idaho Nursery Co.,	Weiser, Idaho.
Lewiston-Clarkston Nursery,	Clarkston, Washington
Milton Nursery Co.,	Milton, Oregon
Oregon Nursery Co.,	Orengo, Oregon
Pacific Nursery Co.,	Portland, Oregon
Peterson & Sandahl,	Seattle, Washington
J.B.Pilkington,	Portland, Oregon



Western Nurseries Covered by Blue Cards (Cont'd.)

Roscraft Nursery & Fruit Farm,  
Salem Nursery Co.,  
Toppenish Nursery Co.,  
Washington Nursery Co.,  
Yakima & Columbia Nursery Co.,  
Yakima Valley Nursery Co.,

Summer, Washington  
Salem, Oregon  
Toppenish, Washington  
Toppenish, Washington  
North Yakima, Washington  
Toppenish, Washington

These blue cards were accompanied by lists showing records of invoices of the nursery stock in question. From these lists were taken the following data which gives the sources from which the Western nurseries obtained their stock sold in this region:

Origin of Stock Sold by Western Nurseries.

Albany Nurseries,  
Geo. L. Allen,  
G.B. Benton,  
Geo. Bernard,  
Breithaupt Nursery Co.,  
F. H. Bunglehouse,  
C.C. Cantwell,  
The Capital Nurseries,  
Carlton Nursery Co.,  
D.D. Carrier,  
C.H. Chapman,  
Chico Nursery Co.,  
Christopher Nursery,  
Clinton Falls Nursery Co.,  
Geo. S. Cooper,  
G.E. Davis,  
Donald Bros. Co.,

Albany, Oregon  
Lebanon, Oregon  
Orengo, Oregon  
Orleans, France  
Kennewick, Washington  
Summer, Washington  
Hoover, Washington  
No. Topeka, Kansas  
Carlton, Oregon  
Clatskanie, Oregon  
Salem, Oregon  
Chico, California  
Christopher, Washington  
Owatonna, Minnesota  
Salem, Oregon  
Summer, Washington  
Donald, Oregon

RECORDS OF THE BOARD OF TRADE

Portland, Oregon  
Astoria, Oregon  
Seaside, Oregon  
Tillamook, Oregon  
Clatsop, Oregon  
Columbia River  
Cannon Beach, Oregon  
Astoria, Oregon

Portland, Oregon  
Astoria, Oregon  
Seaside, Oregon  
Tillamook, Oregon  
Clatsop, Oregon  
Columbia River  
Cannon Beach, Oregon  
Astoria, Oregon

These records are arranged in alphabetical order of the names of the firms and individuals who have been members of the Board of Trade since its organization in 1882. The records are arranged in alphabetical order of the names of the firms and individuals who have been members of the Board of Trade since its organization in 1882.

RECORDS OF THE BOARD OF TRADE

Portland, Oregon  
Astoria, Oregon  
Seaside, Oregon  
Tillamook, Oregon  
Clatsop, Oregon  
Columbia River  
Cannon Beach, Oregon  
Astoria, Oregon  
Portland, Oregon  
Astoria, Oregon  
Seaside, Oregon  
Tillamook, Oregon  
Clatsop, Oregon  
Columbia River  
Cannon Beach, Oregon  
Astoria, Oregon  
Portland, Oregon  
Astoria, Oregon  
Seaside, Oregon  
Tillamook, Oregon  
Clatsop, Oregon  
Columbia River  
Cannon Beach, Oregon  
Astoria, Oregon

Portland, Oregon  
Astoria, Oregon  
Seaside, Oregon  
Tillamook, Oregon  
Clatsop, Oregon  
Columbia River  
Cannon Beach, Oregon  
Astoria, Oregon  
Portland, Oregon  
Astoria, Oregon  
Seaside, Oregon  
Tillamook, Oregon  
Clatsop, Oregon  
Columbia River  
Cannon Beach, Oregon  
Astoria, Oregon  
Portland, Oregon  
Astoria, Oregon  
Seaside, Oregon  
Tillamook, Oregon  
Clatsop, Oregon  
Columbia River  
Cannon Beach, Oregon  
Astoria, Oregon



Origin of Stock Sold by Western Nurseries (Cont'd.)

Wm. Fells & Co.,	Hexan, England
G.B. Freeborough,	Montaville, Oregon
A.I. Gale,	Portland, Oregon
Ludwig Gelhan,	Salem, Oregon
H.W. Heizenreiter,	Warren, Oregon
Geo. Charlton & Sons,	Norpeth, England
D. Hill Nursery Co.,	Dundee, Illinois
C.M. Hooker & Sons,	Rochester, New York
J.P. Horanady,	Hillsboro, Oregon
T.S. Hubbard Co.	Fredonia, New York
Jackson & Perkins,	Newark, New Jersey
J. Jenkins & Son,	Sinonia, Ohio
H.C. Jorgeson,	Salem, Oregon
Lafayette Nursery Co.,	Lafayette, Oregon
C.F. Lansing,	Salem, Oregon
Vincent Lebreton,	Trelaze, France
Levasseur & Fils,	Orleans, France
D.M. Lewis,	Portland, Oregon
Lincoln Fruit Farm,	Salem, Oregon
L.L. May & Co.,	St. Paul, Minnesota
Milton Nursery Co.,	Milton, Oregon
Mt. Arbor Nurseries,	Shenandoah, Iowa
Mt. Tabor Nursery,	Portland, Oregon
Gus Noren,	Chemawa, Oregon
Oregon Nursery Co.,	Orengo, Oregon
John Palmer & Son,	Annon, Scotland
G.F. Peterson,	Lents, Oregon
J.B. Pilkington,	Portland, Oregon
Portland Wholesale Nursery Co.,	Portland, Oregon
Quaker Nursery Co.,	Salem, Oregon
Joe Rich,	Orengo, Oregon
Rose View Nursery	Portland, Oregon
Husselville Nursery Co.,	Montaville, Oregon
H. W. Savage & Sons,	Salem, Oregon
W.N. Scarff,	New Carlisle, Ohio
Frank Schmitz,	St. Johns, Oregon
Pierre Sebire & Son,	Ussy, France
H. W. Settlemeier,	Tangent, Oregon
Shenandoah Nurseries,	Shenandoah, Iowa
T.V. Sluman Nurseries,	Portland, Oregon
Sluman & Harris,	Portland, Oregon
Spring Branch Water Co.,	Summer, Washington
Harlan Stansberry,	Portland, Oregon
H.L. Stevens,	Alsoe, Oregon
J. W. Stevens,	Kelso, Washington
Storrs & Harrison	Painesville, Ohio



Origin of Stock Sold By Western Nurseries ( Cont'd.)

Sunnyside Nurseries,	Sunnyside, Washington
Sunrise Nurseries,	Portland, Oregon
H. B. Thompson,	Hillstere, Oregon
J. E. Towle,	Shaw, Oregon
Walker Nursery,	Salem, Oregon
Washington Nursery Co.,	Toppenish, Washington
Geo. W. Weeks,	Salem, Oregon
W. H. Weeks,	Salem, Oregon
Weeks and Kleine,	Salem, Oregon
E. S. Welch,	Shenandoah, Iowa
Woodburn Nurseries,	Woodburn, Oregon
Woodlawn Nurseries,	Rochester, New York
Yakima Valley Nursery Co.,	Toppenish, Washington

PUBLICITY WORK

Interest in the blister rust work was aroused among the people in the various districts, by newspaper articles in the local papers. These were written by the men in their respective districts. Posters and literature were also exhibited at the Interstate Fair, in Spokane.

MONTANA

Inasmuch as this data gave us only the sales from Western nurseries and it was desired to have as complete a record as possible, we went to Mr. A. L. Strausz,



Montana State Horticulturist, to find out whether he had the desired data. From his records it was found that during the five and one half years from November 1911 to April 1917, over 100,000 currants and almost 80,000 gooseberries had been shipped into the state of Montana. Because of the fact that all the conifers were listed together, it was impossible to trace the shipments of five-needle pines into the state.

Another difficulty was encountered in the fact that no record was given of the ultimate consignees in the case of car-load shipments and lots consigned to agents to distribute. In instances such as these wither the nurseries were asked to cooperate by furnishing the required data, or the information was sought from the forest pathologist in whose territory the nursery happened to be located.

All of the sales data obtained from the office of the State Horticulturist were recorded on cards which were then sorted and filed with the cards prepared by Mr. Stillinger. This gave a complete record of the state sales of currants and gooseberries, to which have been added lists of sales from some of the nurseries within the state. The following is believed to be a complete list

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of the nurseries now operating in the state of Montana and their location:

Montana Nurseries.

Avoca Nursery Co.,	Butte, Mont.
Froid Nursery Co.,	Froid, Mont.
Hamilton Nursery Co.,	Hamilton, Mont.
Hare Nursery Co.,	Deerlodge, Mont.
Home Nursery Co.,	Billings, Mont.
Hopper's Greenhouse & Nursery,	Billings, Mont.
Interstate Nurseries,	Bridger, Mont.
Missoula Nursery Co.,	Butte, Mont.
Missoula Greenhouse & Nurs. Co.,	Missoula, Mont.
Page-Cäärk Seed & Nurs. Co.,	Billings, Mont.
State Nursery Co.,	Helena, Mont.
Yellowstone Nursery (branch)	Rockvale, Mont.
Yellowstone Nursery,	Silesia, Mont.

Status of Montana Nurseries.

The Missoula Greenhouse and Nursery Co., of Missoula, Mont. grows but little of its nursery stock. From the incomplete record of invoices available, it was found that currants and gooseberries had been purchased: in 1908 from Jackson & Perkins Co., of Newark, N. J., who, in turn, precured the stock from Charles Detriche, Sr., Angers, France; in 1909, from Charles Detriche, Sr., Angers, France direct; and in 1909, 1910, and 1911 from the Mount Arbor Nurseries, Shenandoah, Iowa.





The Missoula Nursery Co., of Butte, Mont. grows none of its stock. Invoices showed purchases of currants, and gooseberries as follows: in 1918 from the Fremont Office of the Mt. Arbor Nurseries, Shenandoah, Iowa; during the years 1915, 1916, and 1917 bush fruits were bought of the Missoula Greenhouse and Nursery Co., of Missoula.

The State Nursery Co., Helena, Mont., has a large seed and greenhouse trade and also a fairly extensive nursery business. They, however, grow little except greenhouse stuff, buying their seeds and nursery stock. Mr. Mills informed us that he had purchased currants and gooseberries from the following sources: Jewell Nursery Co., Lake City, Minn., Missoula Greenhouse & Nursery Co., and Storrs & Harrison Co., Painesville, Ohio. In view of the fact that diseased pines were found in the last-mentioned nursery in 1910, 1911, and 1916, it was thought that currants and gooseberries shipped from this nursery at that time might have been infected. Consequently, bush fruits from the State Nursery Co., Helena, Mont. have been considered as dangerous.

The Avoca Nursery Co., of Butte, Mont. is affiliated with the Tidewater Investment Co., of the same



city, and is chiefly concerned with the planting up of their real estate deals. Mr. W. Mc C. White informed us that the nursery had neither bought nor sold any currants, gooseberries, or five-needle pines.

The Hamilton Nursery Co., Hamilton, Mont., does not grow any of its nursery stock. At the present time the owner is engaged in another business and their sales are few. According to Field Assistant Joseph Yencso, who visited the nursery this summer, they had no currants, gooseberries, or five-needle pines in the nursery.

The King - Thurman Nursery Co., Kalispell, Mont., operated from 1910-1916. They grew only a small part of their nursery stock. The rest they obtained from the following nurseries: Stark Brothers Nursery and Orchard Co., Louisiana, Mo.; Jewell Nursery Co., Lake City, Minn.; Mount Arbor Nurseries, Shenandoah, Iowa; and Oregon Nursery Co., Orenco, Ore.

The Hopper's Greenhouse and Nursery Co., Billings, Mont., does mostly a greenhouse business, i. e., cut flowers, bedding plants, and garden sets (tomatoes, cabbages, peppers, etc.). The few currants and gooseberries which they have sold were purchased from Shenandoah Nurseries, Shenandoah, Iowa.



The Stillwater Nurseries of Columbus, Mont., operated from 1909-1913, going out of business with the death of the manager, Mr. Chas. A. Teall, in 1913. The data on their sales were obtained from the lawyer who settled up the estate and he told us that he believed the nursery grew most of their stock. This, however, is probably not the case.

The Montana Nursery Co., Billings, Mont. was founded in 1906 and was one of the largest nurseries operating in the state, having made a \$55,000 delivery in 1912. Incomplete invoice records show 15,000 currants and 16,000 gooseberries were purchased from the Mount Arbor Nurseries, Shenandoah, Iowa. The nursery went out of business in 1913.

The Billings Nursery Co., of Billings, Mont. was started in 1913 by one of the men formerly connected with the Montana Nursery Co., (Mr. Tighe) and was operated until the death of Mr. Tighe in 1916. The business was not very extensive and they did not grow their own stock but obtained it from the Mount Arbor Nurseries, Shenandoah, Iowa and the Shenandoah Nurseries, Shenandoah, Iowa.

The Yellowstone Nursery at Silesia, Mont. was not visited by Mr. Fovah (because of entering military service). Mr. Strausz, State Horticulturist, gave the following information: The nursery was founded in 1910 and at the present time is about to close out the business, having only fruit trees left in the nursery. It is believed that they handle

The Webster Trustee of Columbia, Mo., 1911  
dated from 1907-1911, which was at variance with the facts  
of the record, the case, & finally in 1918. The date on  
their side were obtained from the papers and settled on  
the estate and he said he believed the necessary  
most of their books. This however, is especially not the case.  
The Webster Trustee Co., Illinois, Mo., was formed  
in 1908 and was one of the largest business concerns in  
the state, having made a \$15,000 delivery in 1911. Incomplete  
invoices showed \$1,000 accounts and \$1,000 receivables  
were prepared from the Grant Archer Webster, Illinois,  
Iowa. The business went out of business in 1911.  
The Illinois Trustee Co. of Illinois, Mo., was  
started in 1911 to buy and sell property connected with  
the Webster Trustee Co., (Mo. Ill.) and was operated until  
the death of Mr. Archer in 1911. The business was not very  
extensive and they did not have their own stock but obtained  
it from the Grant Archer Webster, Webster, Iowa and the  
Illinois Trustee, Webster, Iowa.  
The following is a list of Illinois, Mo., was the  
listed by Mr. Archer (owner of Archer's military service).  
Mr. Archer, State Representative, gave the following list:  
Illinois: The company was formed in 1910 and at the present  
time is about to close out the business, having only this  
trust left in the company. It is believed that the same

very little home-grown stock, but the source is unknown, although it is practically certain Eastern stock was bought.

The Interstate Nursery, Bridger, Mont. was likewise not visited by Dr. Fovah, but it is believed to be out of business. This will be verified, however, before the season of 1919.

The Home Nursery, Billings, Mont. was started in 1916. They do not grow much of their stock and have purchased currants and gooseberries from the Mount Arber Nursery, Shenandoah, Iowa and the Gurney Seed and Nursery Co., Yankton, S. Dakota.

The so-called Page Nursery Co., Billings, Mont. was started in 1910. They have grown practically nothing with the exception of shade trees. They have been merely agents for the following nurseries: from 1910-1916 for the Jewell Nursery Co., Lake City, Minn.; from 1917 to the spring of 1918 for the Gurney Seed and Nursery Co., Yankton, S. Dakota. Beginning this fall (1918) they are going to represent the Clinton Falls Nursery Co., Owatonna, Minn.

The Froid Nursery Co., Froid, Mont. was established in 1915 and is still doing a small business. It does not grow the currants and gooseberries which it sells but has bought them from the Rose Hill Nursery, Minneapolis, Minn.





and the Clinton Falls Nursery Co., Owatonna, Minn.

Nurseries Having Sold Stock in Montana.

In addition to the state nurseries, as given in the last list, the following concerns have sold nursery stock in Montana during the past eight years:

Albany Nursery Co.,	Albany, Oregon.
Andorra Nurseries,	Chester Hill, Pennsylvania,
Arlington Nursery & Fruit Farm,	Arlington, Nebraska
Corbett Bennett,	Billings, Montana
Berry Nursery Co.,	Rochester, N. Y.
Billings Nursery Co.,	Billings, Montana
Biltmore Nursery Co.,	Biltmore, N. Carolina
Bitter Root Valley Irrig. Co.,	Florence, Montana
" " " " "	Victor, Montana
Benjamin F. Bonnewell,	Denver, Colorado
Brand Nursery Co.,	Faribault, Minnesota
Brown Bros.,	Rochester, New York
Capital City Nursery Co.,	Salem, Oregon
Chinook Nursery,	Chinook, Montana
Clinton Falls Nursery Co.,	Owatonna, Minnesota
Clinton Nurseries,	Clinton, Minnesota
Columbia & Okanogan Nurseries,	Wenatchee, Washington
Deephaven Nursery Co.,	Wayzata, Minnesota
Deerfield Nursery,	Medford, Minnesota
Des Moines Nursery Co.,	Des Moines, Iowa
Charles Detriche, Sr.,	Angers, France
A.H. Downing,	Hamilton, Montana
Henry A. Dreer, Inc.,	Philadelphia, Penn.
Dungan Watson Co.,	Freemont, Nebraska
Elliott Nursery Co.,	Pittsburg, Pennsylvania
Fairmont Nursery Co.,	Address unknown
Farmers Seed and Nursery Co.,	Faribault, Minnesota
Geo. W. Forner,	Payette, Idaho
Galbraith Nursery,	Fairbury, Nebraska
The Galloway Bros. Co.,	Waterloo, Iowa
Geneva Nurseries,	Geneva, New York

ALPHABETICALLY LISTED BY COUNTY

in order of the date of their incorporation.

The first, and following companies have their names in order of their incorporation in the State:

Adams, Chicago  
 American Mill, Chicago  
 American Oil, Chicago  
 American Paper, Chicago  
 American Printing, Chicago  
 American Rubber, Chicago  
 American Tanning, Chicago  
 American Textile, Chicago  
 American Wire, Chicago  
 American Wool, Chicago  
 American Zinc, Chicago  
 American Glass, Chicago  
 American Brick, Chicago  
 American Cement, Chicago  
 American Lumber, Chicago  
 American Coal, Chicago  
 American Iron, Chicago  
 American Steel, Chicago  
 American Lead, Chicago  
 American Tin, Chicago  
 American Copper, Chicago  
 American Silver, Chicago  
 American Gold, Chicago  
 American Platinum, Chicago  
 American Nickel, Chicago  
 American Zinc, Chicago  
 American Iron, Chicago  
 American Steel, Chicago  
 American Lead, Chicago  
 American Tin, Chicago  
 American Copper, Chicago  
 American Silver, Chicago  
 American Gold, Chicago  
 American Platinum, Chicago  
 American Nickel, Chicago

American Paper, Chicago  
 American Printing, Chicago  
 American Rubber, Chicago  
 American Tanning, Chicago  
 American Textile, Chicago  
 American Wire, Chicago  
 American Wool, Chicago  
 American Zinc, Chicago  
 American Glass, Chicago  
 American Brick, Chicago  
 American Cement, Chicago  
 American Lumber, Chicago  
 American Coal, Chicago  
 American Iron, Chicago  
 American Steel, Chicago  
 American Lead, Chicago  
 American Tin, Chicago  
 American Copper, Chicago  
 American Silver, Chicago  
 American Gold, Chicago  
 American Platinum, Chicago  
 American Nickel, Chicago  
 American Zinc, Chicago  
 American Iron, Chicago  
 American Steel, Chicago  
 American Lead, Chicago  
 American Tin, Chicago  
 American Copper, Chicago  
 American Silver, Chicago  
 American Gold, Chicago  
 American Platinum, Chicago  
 American Nickel, Chicago

Grand View Orchard Co.,  
Gray Nursery Co.,  
Gurney Seed & Nursery Co.,  
Hankinson Nursery Co.,  
M. H. Harmon Co.,  
D. Hill Nursery Co.,  
Howard Lake & Victor Nurseries,  
Huntsville Nurs. Co.,  
Idaho State Nursery,  
International Nurseries, -  
Interstate Nurseries,  
Jackson & Perkins Co.,  
Jewell Nursery Co.,  
E. A. Johnson,  
Jolly & Co.,  
R. M. Kellogg Co.,  
O. W. Kerr Co.,  
The Ben Kess Nursery Co.,  
King-Thurman Nursery Co.,  
Lewiston-Clarkston Nursery Co.,  
L.L. May Co.,  
Milton Nursery Co.,  
Missoula Orchard Co.,  
Montana Nursery Co.,  
Wm. H. Moon Co.,  
Mt. Arbor Nurseries,  
Mt. Tabor Nursery,  
National Nursery,  
Northern Colorado Nursery Co.,  
Northern Nursery Co.,  
Northwest Nursery Co.,  
Oregon Nursery Co.,  
Owatonna Nursery Co.,  
Pacific Nursery Co.,  
Perry Nursery Co.,  
Peterson & Sandahl,  
Pioneer Nursery Co.,  
Pioneer Nursery Co.,  
Pleasant Valley Nursery Co.,  
Portland Nursery Co.,  
M.O. Randall,  
H. C. Raymond,  
Rhineland Nursery Co.,  
Riverside Nursery,  
Rosecroft Nursery & Fruit Farm,

Hamilton, Montana  
Hamilton, Montana  
Yankton, S. Dakota  
Hankinson, N. Dakota  
Geneva, New York  
Dundee, Illinois  
Howard Lake, Minnesota  
Huntsville, Alabama  
Nampa, Idaho  
Denver, Colorado  
Bridger, Montana  
Newark, New Jersey  
Lake City, Minnesota  
Hamilton, Montana  
Conneautville, Pennsylvania  
Three Rivers, Michigan  
Minneapolis, Minnesota  
Hamilton, Montana  
Kalispell, Montana  
Clarkston, Washington  
St. Paul, Minnesota  
Milton, Oregon  
Missoula, Montana  
Billings, Montana  
Morrisville, Pennsylvania  
Shenandoah, Iowa  
Portland, Oregon  
Rochester, New York  
Loveland, Colorado  
Denver, Colorado  
Valley City, N. Dakota  
Orencia, Oregon  
Owatonna, Minnesota  
Portland, Oregon  
Rochester, New York  
Seattle, Washington  
Murray, Utah  
New Ulm, Minnesota  
Winona, Minnesota  
Portland, Oregon  
American Forks, Utah  
Stevensville, Montana  
Rhineland, Wisconsin  
Spokane, Washington  
Sumner, Washington



Rose Hill Nursery,	Minneapolis, Minnesota
Routledge Seed & Floral Co.,	Portland, Oregon
H. E. Rowley,	Jacon, Illinois
Russellville Nursery Co.,	Portland, Oregon
Salem Nursery Co.,	Salem, Oregon
John A. Salzer Seed Co.,	La Crosse, Wisconsin
Sherman Nursery Co.,	Charles City, Iowa
J.H.Skinner & Co.,	Topeka, Kansas
Smith Bros.,	Centerville, Utah
L.Z.Smith,	Mankato, Minnesota
W. & T. Smith Co.,	Geneva, New York
Sonderegger Nurs. & Seed House,	Beatrice, Nebraska
Spokane Nursery Co.,	Spokane, Washington
Stark Bros. Nurs. & Orch. Co.,	Louisiana, Missouri
Stillwater Nurseries,	Columbus, Montana
Storrs & Harrison Co.,	Painesville, Ohio
Strand's Nursery	Taylor Falls, Minnesota
Sunnyside Nursery Co.,	Sunnyside, Washington
Toppenish Nursery Co.,	Toppenish, Washington
W.I.Tuttle,	Fromberg, Montana
K. Van Bourgondieu & Son,	Hillegom, Holland
Van Holderbeke Nursery Co.,	Spokane, Washington
Vincennes Nursery Co.,	Vincennes, Indiana
Vineland Nursery,	Clarkston, Washington
Wapato Nursery Co.,	Wapato, Washington
J. W. Waters Nursery.	Twin Falls, Idaho
Washington Nursery Co.,	Toppenish, Washington
Wedge Nursery Co.,	Albert Lea, Minnesota
A. R. Weston Co.,	Bridgeman, Michigan
Whiting Nursery Co.,	Yankton, S. Dakota
Wild Rose Orchard Co.,	Spokane, Washington
O.H. Will & Co.,	Bismark, N. Dakota
Winfield Nursery Co.,	Winfield, Kansas
Henry Winter,	Helena, Montana
Woodburn Nursery Co.,	Woodburn, Oregon
Wragg Nursery Co.,	Des Moines, Iowa
Yakima & Columbia River Nurs. Co.,	North Yakima, Washington
Yakima Valley Nursery Co.,	Toppenish, Washington
Yellowstone Nursery,	Silesia, Montana
Yellowstone Nursery (branch),	Rockvale, Montana

In obtaining data on the sales of nursery stock  
by the nurseries within the state, the proprietor or manager



was asked to cooperate by permitting us to go over his i  
invoices and sales in order to record data on currants,  
gooseberries, and five-needle pines on the cards. In  
some cases, order books were available, but in others  
(the majority, in fact), it was necessary to go through  
the original orders. This slowed down the work consid-  
erably because of the poor chirography. Much credit  
must be given to the nurseries for their willingness to  
cooperate, for it would have been impossible to obtain  
complete data without their help.

Having thus completed the compilation and record-  
ing of data, there remained but the work of inspection,  
which Field Assistant Joseph Yencso began on June 19th.  
The account of this work will be found under the title  
"Resume of work in Subdistrict 1."

IDAHO AND SPOKANE AND PEND OREILLE COUNTIES  
OF WASHINGTON

I. Idaho.

The problem of obtaining the required sales data  
in Idaho was much more difficult than in the case of Mon-  
tana. This was due to the fact that the records

was asked to cooperate by permitting us to go over his  
1  
invoices and notes in order to record them on our books.  
Goatshead, and the needle firms on the other. In  
some cases, other books were available, but in others  
(the majority, in fact), it was necessary to check  
the original orders. This shows that the work consist-  
ing of going through the poor children's books should  
not be given to the nurses for their willingness to  
cooperate, for it would have been impossible to obtain  
complete data without their help.

Having thus completed the compilation and record-  
ing of data, there remained the work of inspection,  
which the Assistant Health Officer began on June 19th.  
The account of this work will be found under the title  
"Records of work in Philadelphia I."

RECORDS OF WORK IN PHILADELPHIA I.  
BY ASSISTANT HEALTH OFFICER

I. INTRODUCTION.

The problem of obtaining the required sales data  
in Philadelphia was not only a difficult one in the case of non-  
farmers. This was due to the fact that the records



of the State and Entomologist are too meagre to be of any use; to quote from a letter of Field Assistant, N. W. Scherer, "My search shows conclusively that there are no records in the office to show what each shipment, inspected by the deputy inspectors, contained. Hence it will be utterly impossible to trace Ribes or Pinus shipments into the state from this office." About the only things that Mr. Scherer was able to get from the above source were: (1) an incomplete record of the firms that have shipped stock into the state; (2) meagre data on the nurseries now operating within the state; (3) - perhaps the most important of all - a promise of reformation which a few quotations from Mr. Scherer's letter of June 19 will explain.

"Mr. Graham ( State Entomologist) has agreed to the following suggestions made by me:

- (1) That he will cooperate in every way possible.
- (2) That quarantine No. 8 (Blister Rust) be amended.
- (3) That card index records be kept of all shipments into the state.
- (4) That men with better education be secured as deputy inspectors."

The following list is believed to include all the nurseries now operating in the state of Idaho, although

of the State and Entomologist and too many to be of any use;  
 to quote from a letter of Field Assistant, W. F. Solinger,  
 "My search shows conclusively that there are no records  
 in the office to show what each shipment, inspected by  
 the deputy inspectors, contained. Hence it will be impos-  
 sible to trace flies or other shipments into the  
 State from this office." About the only thing that  
 Mr. Solinger was able to get from the above source were:  
 (1) an inspection record of the flies that have shipped  
 back into the State; (2) the fly data on the numbers  
 now operating within the State; (3) - perhaps the most  
 important of all - a promise of information which a few  
 quotations from Mr. Solinger's letter of June 13 will

contain.

Mr. Solinger (State Entomologist) has agreed to

the following suggestions made by me:

- (1) That we will cooperate in every way possible.
- (2) That documents No. 3 (Blasted Wheat) be amended.
- (3) That case index records be kept of all shipments  
 into the State.
- (4) That new and better information be secured as far

as possible.

The following list is believed to include all  
 the numbers now operating in the State of Ohio, although

it has not been verified, as in the case of Montana, by visits to each nursery. Mr. Scherer in the letter quoted above says: "There are practically no nurseries in the state that grow their own shruberry or other nursery stock. Most of them are jobbers and distributors". The notes after the nurseries in the following list are those of Mr. Scherer obtained from Mr. Graham.

Nurseries Now Operating in Idaho

Blackfoot Nurseries,	Blackfoot, Idaho
Caldwell Nurseries, Ships in a large amount of stock.	Caldwell, Idaho
Anton Diedrichsen, Grows ornamental stock & is very successful with it.	Payette, Idaho
C. H. Goan, Business in a small way - just about to close out.	Grangeville, Idaho
Idaho Nursery Co., Jobbers - not licensed now. Ship in most of their stock from Washington & Oregon and distribute it.	Weiser, Idaho
Idaho State Nursery Co.,	Nampa, Idaho
Intermountain Nursery Co., Operating on a small scale - ship in about 50% of stock.	Payette, Idaho
Kimberly Nursery Co., Grow some stock.	Kimberly, Idaho

it has not been verified, as in the case of ...  
 visited to each ...  
 of its ...  
 of the ...  
 notes ...  
 of the ...

Inventory of ...

...	...
...	...
...	...
...	...
...	...
...	...
...	...
...	...
...	...
...	...

Nurseries Now Operating in Idaho (Cont'd.)

D.H. Peck & Co.,  
Ships in all his stock - just  
a jobber.

Twin Falls, Idaho

Rupert Nursery Co.,  
Still operating on a small  
scale - grow some of their  
stock.

Rupert, Idaho.

Spokane Fruit Growers Ass'n.  
Jobbers - handle mostly fruit  
trees, but some shrubs.

Coeur d'Alene, Idaho

J. E. Steincur,  
Not licensed for least 3 years,  
may be out of business.

Murtaugh, Idaho

E. F. Stephens,  
Dealer.

Mampa, Idaho

Twin Falls Prudential Nursery Co., - Twin Falls, Idaho  
Not licensed now, perhaps they  
are out of business.

The following list, as complete as was possible  
to obtain, shows the firms that have shipped stock into  
Idaho during the years, 1907, 1912, 1913, 1914, 1915, 1916,  
1917, 1918.

Nurseries and Agents Having Sold Stock in Idaho.

Albany Nurseries,  
Geo. F. Allen,  
D.L. Arnold,  
W.C. Austin,  
Ballygreen Nurseries,

Albany, Oregon  
Filer, Idaho  
Mowcow, Idaho  
Boise, Idaho  
Hanford, Washington

Investment in American Stock in 1930.

Two firms, 1930

1930 - 1931  
1931 - 1932  
1932 - 1933

1930, 1931

1930 - 1931  
1931 - 1932  
1932 - 1933

1930, 1931, 1932

1930 - 1931  
1931 - 1932  
1932 - 1933

1930, 1931

1930 - 1931  
1931 - 1932  
1932 - 1933

1930, 1931

1930 - 1931  
1931 - 1932  
1932 - 1933

1930, 1931, 1932

1930 - 1931  
1931 - 1932  
1932 - 1933

The following table, as complete as was possible

to obtain, shows the firms that have reported stock

1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940

1930, 1931

Investment in American Stock in 1930.

1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940

1930 - 1931  
1931 - 1932  
1932 - 1933  
1933 - 1934  
1934 - 1935  
1935 - 1936  
1936 - 1937  
1937 - 1938  
1938 - 1939  
1939 - 1940

Nurseries and Agents Having Sold Stock in Idaho (Cont'd.)

Baltimore Nurseries,	Baltimore, N. Carolina
Claude L. Barnes	Emmett, Idaho
Bayhouse Floral Co.,	Boise, Idaho
L.O.Beery,	Portland, Oregon
C.L.Bidstrup,	Rupert, Idaho
Bingham County Nursery Co.,	Blackfoot, Idaho
Boise Floral Co.,	Boise, Idaho
Boise Nursery Co.,	Boise, Idaho
Boise Valley Nursery Co.,	Caldwell, Idaho
J.H.Bowers,	Plymouth, Idaho
Bradford & Hays,	Clarkston, Washington
A.H.Brainard,	Parma, Idaho
J. S. Bronson,	Parma, Idaho
Brown Bros.,	Rochester, New York
Isaac Buckley,	Oro Fino, Idaho
Buhl Mgt's. Nursery & Orchard Co.,	Buhl, Idaho
Buhl Nursery Co.,	Buhl, Idaho
J.M.Campbell,	Boise, Idaho
Canyon County Nurseries,	Emmett, Idaho
Canyon Nursery Co.,	Caldwell, Idaho
Capital City Nursery Co.,	Salem, Oregon
Cassia County Pioneer Nursery,	Jackson, Idaho
Chas. B. Chaffee,	Clarkston, Washington
Chico Nursery Co.,	Chico, California
Civic Nursery Co.,	Tangent, Oregon
Columbia & Okanogan Nursery Co.,	Wenatchee, Washington
Crystal Nursery,	Payette, Idaho
H.H.Cummins,	Melba, Idaho
Davis & Avant,	Twin Falls, Idaho
Davis Bros.	Salmon, Idaho
Des Moines Nursery Co.,	Des Moines, Iowa
Dygert & Harder,	Twin Falls, Idaho
Emmett Nurseries,	Emmett, Idaho
Ferguson Fruit & Land Co.,	Twin Falls, Idaho
J. C. Finstead,	Priest River
James Fitzgerald,	Filer, Idaho
Geo. W. Fonner,	Payette, Idaho
Fruitland Nursery,	Payette, Idaho
Galbraith Nursery Co.,	Fairbury, Nebraska
Gardner Nursery Co.,	Osage, Iowa
M. J. Goss & Co.,	Fruitland, Idaho
Graves & Hurrele,	New Plymouth, Idaho





Nurseries and Agents Having Sold Stock in Idaho (Cont'd.)

C. H. Gravestock,	Hagerman, Idaho
A. D. Guild,	Post Falls, Idaho
Edwin B. Hanford,	Oakdale, Washington
Harness, Dicks & Co.,	Salt Lake City, Utah
C. P. Hartley,	Emmett, Idaho
Chas. P. Hartley,	Caldwell, Idaho
F. W. Hawk,	Roswell, Idaho
Hawk's Nurseries,	Parma, Idaho
Haynes & Wonacott,	Milner, Idaho
Roy & J. W. Hedges,	Meridian, Idaho
Herrick, Seed Co.,	Rochester, New York.
Herriett & Salterback,	Twin Falls, Idaho
Home Nursery,	Clarkston, Washington
Home Nursery,	Moscow, Idaho
Huntsville Wholesale Nursery,	Huntsville, Alabama
B. F. Hurst,	Boise, Idaho
Intermountain Nursery Co.,	Brigham City, Utah
Intermountain Nursery Co.,	Denver, Colorado
International Nursery Co.,	Denver, Colorado
Henry Jacobson,	Mountain Home, Idaho
Thomas Jaycox,	Twin Falls, Idaho
Jacob C. Jensen,	Brigham City, Utah
Jewell Nursery Co.,	Lake City, Minnesota
R. A. Jones,	Spokane, Washington
R. M. Kellogg Co.,	Three Rivers, Michigan
Tim Kelly,	Wapato, Washington
Lafayette Nursery Co.,	Lafayette, Oregon
D. S. Lake,	Shenandoah, Iowa
C. F. Lansing,	Marion, Oregon
C. F. Lansing,	Salem, Oregon
M. M. Lewis,	Coeur D'Alene, Idaho
Lewiston Valley Nursery Co.,	Lewiston, Idaho
J. F. Littooy,	Boise, Idaho
W. E. Loughrey,	Payette, Idaho
Lyman & Smith,	Rupert, Idaho
C. H. Martin,	Emmett, Idaho
Albert Mathis,	Payette, Idaho
L.L. May & Co.,	St. Paul, Minnesota
Midvale Nursery Co.,	Midvale, Idaho
Miller & Sons,	Nampa, Idaho
Milner Nursery Co.,	Milner, Idaho
Milton Nursery Co.,	Milton, Oregon
Mountain Gem Nursery Co.,	Parma, Idaho
Mountain Gem Nursery,	Sweet, Idaho



Nurseries and Agents Having Sold Stock in Idaho (Cont'd.)

Muss & Hays,	Clarkston, Washington
Stuart Mutch,	Caldwell, Idaho
Nampa Nurseries,	Nampa, Idaho
Northern Nursery Co.,	Denver, Colorado
A. R. Moyer,	Payette, Idaho
D. L. O'Neal,	Blackfoot, Idaho
Oregon Nursery Co.,	Orengo, Oregon
Leigh Overman,	Spokane, Washington
Pacific Nursery Co.,	Portland, Oregon
Benjamin Paine,	Parma, Idaho
L. V. Patch,	Payette, Idaho
Payette Hgts. Nursery Co.,	Payette, Idaho
Payette Valley Fruit & Investment Co.,	Payette, Idaho
Payette Valley Nursery,	Clarkston, Washington
Geo. W. R. Peaslee,	Salt Lake City, Utah
Pioneer Nursery Co.,	Parma, Idaho
Pittenger Nursery Co.,	Priest River, Idaho
Priest River Home Nursery,	Provo, Utah
Provo Nurseries,	Gooding, Idaho
D. S. Pruitt,	American Fork, Utah
Murray O. Randolph	Richland, Washington
Richland Nursery Co.,	Spokane, Washington
Riverside Nursery Co.,	Parma, Idaho
Roswell Park Fruit Co.,	Portland, Oregon
Routledge Seed & Floral Co.,	Payette, Idaho
Wm. J. Russell,	Russellville, Oregon
Russellville Nursery Co.,	Roswell, Idaho
John F. Ryan,	Salem, Oregon
Salem Nursery Co.,	Salt Lake City, Utah
Salt Lake Nursery Co.,	Emmett, Idaho
Jay W. Sanders,	Lewiston, Idaho
Robt. Schleicher,	Boulder, Colorado
Schroeder & Son Nursery Co.,	Woodburn, Oregon
F. W. Settlemeier,	Charles City, Iowa
Sherman Nursery Co.,	Star, Idaho
M. D. Smith,	Beatrice, Nebraska
Sonderegger Nursery & Seed Hse.,	Louisiana, Missouri
Stark Bros. Nursery & Orch. Co.,	Twin Falls, Idaho
B. W. Steinour,	Sunnyside, Washington
Sunnyside Nursery Co.,	Baker, Oregon
Sunnyslope Nursery Co.,	Caldwell, Idaho
A. F. Talcott,	



Nurseries and Agents Having Sold Stock in Idaho (Cont'd.)

Toppenish Nursery Co.,	Toppenish, Washington
Twin Falls Floral Co.,	Twin Falls, Idaho
Twin Falls Nursery,	Twin Falls, Idaho
Tyler Bros. Nursery Co.,	Hepburn, Idaho
Union Nurseries,	Union, Oregon
Utah Nursery Company,	Salt Lake City, Utah
Van Holderbeke Nursery,	Spokane, Washington
Vine Land Nurseries,	Clarkston, Washington
John Vruegenhill	Twin Falls, Idaho
Wallace Florist Co.,	Wallace, Idaho
Wasatch Nursery,	Salt Lake City, Utah
Washington Nursery Co.,	Toppenish, Washington
J. A. Waters,	Twin Falls, Idaho
J.B.Weaver,	Union, Oregon
D. S. Webb & Co.,	Coeur d'Alene, Idaho
Richard H. Webber,	The Dalles, Oregon
Weiser Valley Nursery Co., -	Weiser, Idaho
Wendell Nursery & Orchard Co.,	Weiser, Idaho
Westside Nursery Co.,	Twin Falls, Idaho
Western Nursery Co.,	Logan, Utah
F.L.White	Moscow, Idaho
John F. Whitlock,	Meridian, Idaho
D. L. Wild,	Jonesville, Idaho
Wild Rose Orchard Co.,	Spokane, Washington
R. B. Wilson,	Emmett, Idaho
Williams & Carnefix,	Payette, Idaho
E. L. Wonacott,	Kimberly, Idaho
Fred J. Woods,	Boise, Idaho
Yakima & Columbia River Nurs. Co.,	No. Yakima, Washington.
Yakima-Sunnyside Nurs. Co.,	Sunnyside, Washington
Yakima Valley Nursery Co.,	Toppenish, Washington.
W. A. Younie,	Blackfoot, Idaho.

Because of the fact that, even with the incomplete data at hand, there were more inspection cards than Field Assistant Norman W. Scherer could cover in a single field season, it was determined to inspect what stock we had listed. This included sales from the Western nurseries (on blue



cards ) included in the first list of this report and sales made by Montana nurseries in Idaho. Mr. Scherer began inspecting in Pend Oreille County, Washington, about the third week in June. After completing this county he went into Boundary County, Idaho, working south, thence eventually completing Bonner and Eootenai Counties. After the departure of Mr. Scherer at this time (September 19) one of the writers, Mr. George A. Root, continued with the work in Idaho and completed Shoshone County.

## II. Spokane and Pend Oreille Counties,

### Washington.

The sales of Pine and Ribes in this section of Subdistrict II are mostly from Western nurseries. A personal interview with Mr. M.L. Dean, Chief of the Division of Horticulture at Olympia, has not been possible, but a letter requesting nursery information was forwarded, and cooperation in this work was kindly offered.

The following list is believed to include the nurseries and agents operating in this district:

A.L. Burt,	Spokane, Wash.
Small nursery. Ships in stock when needed.	
Irmus and Klaffenbach	" "
Small nursery. Ships in good deal of stock.	

... included in the first list of this report and  
... also made by numerous witnesses in Idaho. Mr. Scherer  
... began investigation in Ford Orellie County, Washington,  
... about the third week in June. After completing this  
... county he went into Boundary County, Idaho, working  
... towns eventually completing same and returning  
... counties. After the departure of Mr. Scherer at this  
... time (September 29) one of the writers, Mr. George A.  
... foot, continued with the work in Idaho and completed  
... Shoshone County.

II. THEORETICAL AND PRACTICAL ASPECTS

Introduction

The case of this case is in this section of  
Subpart II are mostly from Western witnesses. A per-  
sonal interview with Mr. J. H. ... Chief of the Division  
of Agriculture at Olympia, was not possible, but a  
letter reporting ... information was furnished, and  
cooperation in this work was timely offered.

The following list is believed to include the

... and various operators in this district:

- A. I. ...
- ... in
- ... stock
- ... and
- ... in
- ... of



A/A. Kelley, Nurseryman,	Spokane, Wash.
?	
H. E. Krause,	" "
Two small nurseries. Ships in stock.	
Municipal Nursery (J. W. Duncan).	" "
Owned by City of Spokane. Grows stock for city parks.	
Overman Nursery Co.,	" "
Very small nursery. Big Business. Ships in stock.	
Riverside Nursery ( R. A. Jones).	Hillyard, Wash.
Grows a great deal of stock	
Spokane Nursery Co.,	Spokane, Wash.
Grows stock but ships in a great deal.	
Sylvan Home Nursery ( C. E. Straight).	Hillyard, Wash.
Out of business. Some stock still remaining.	
Wild Rose Nursery,	Spokane, Wash.
Out of business.	

Agents:

E. C. Balzer	Spokane, Wash.
Sheldon B. Coon	" "
A. Donart, Florist,	" "
J. Driscoll,	" "
Glenrose Greenhouses	" "
Hoyt Bros., Florists,	" "
Reimer's Floral Art Shop	" "
Spokane Greenhouse Co.,	" "
Spokane Seed Co.,	" "

The following is a list of nurseries having sold stock in this district from 1907 to 1918.

Albany Nursery Co.,	Albany, Oregon
Bobbink and Atkins Co.,	Rutherford, N.J.
Brown Bros.,	Vancouver, B. C.
J.J. Butser,	Portland, Oregon
Fruit Farm Co.,	Summer, Washington
Garden Nursery Co.,	Osage, Iowa.
Green Bros. Nursery Co.,	Rochester, N. Y.
H.M. Hardyzer,	Boskoop, Holland
D. Hill Nursery Co.,	Dundee, Ill.



Kelway and Son,	Longport, England
Lake City Nursery Co.,	Lake City, Minn.
Milton Nursery Co.,	Milton, Oregon
Oregon Nursery Co.,	Orengo, Oregon
Ornamental and Fruit Nursery Co.,	Wapato, Wash.
J. B. Pilkington,	Portland, Oregon
Rosalie Nursery Co.,	Summer, Oregon
Rosecraft Nursery and Fruit Co.,	Portland, Oregon
Russelville Nursery Co.,	Russelville, Oregon
Washington Nursery Co.,	Toppenish, Wash.

Owing to the large number of cards for Spokane County, it was deemed advisable to inspect the most important ones, including those representing pine shipments. This was done in order that inspection might be made in other important districts.

WYOMING.

Conditions for securing data in Wyoming were found by Field Assistant Ferdinand S. Wolpert to be even worse than in Idaho. Moreover, there is no Blister Rust Quarantine. The following quotation from a letter of Mr. Wolpert's written June 10th, will explain the situation:

"The state records are very meagre, giving me no available material other than the list of nurseries which are doing or have done business in the state. The board (State Board of Horticulture) here is in the hands of



Dr. Nelson completely, and, as he told me, he has time for it only when he forces himself to take time. As a result, the available data is practically nothing." At the time of writing this report a list of nurseries operating in the state of Wyoming was not available. A reply to a letter to Dr. Nelson of the State Board of Agriculture asking for this list, is expected at any time. All inspection cards on hand at the present time represent sales from outside nurseries.

In the hope of getting some data on the stock shipped into Wyoming, Mr. Wolpert wrote to the nurseries that had been shipping stock in and asked them to cooperate by sending him lists of all their Wyoming sales of currants, gooseberries and five-needle pines for the past seven years. It was as surprising as it was gratifying to note how many of the nurseries sent back the desired data.

The following list shows the nurseries that have done business in Wyoming and was communicated to Mr. Wolpert by Dr. Aven Nelson, Secretary of the Wyoming State Board of Horticulture.

Mr. Nelson completely and, as he told me, he was time  
for it only as he forces himself to take time. As a  
result, the available data is "practically nothing." At  
the time of writing this report a list of names of op-  
erating in the state of Wyoming, was not available. A  
reply to a letter to Mr. Nelson of the State Board of  
Agriculture asking for this list, is expected at any  
time. All information made at hand at the present time  
represent sales from certain numbers.

In the hope of getting some data on the  
stock shipped into Wyoming, Mr. Wolpert wrote to the num-  
beries that had been shipping stock in and asked them to  
complete by sending him lists of all their shipping sales  
of carloads, grossed and five-number plates for the  
past seven years. It was anticipated as it was grati-  
fying to note how many of the numberies sent back the  
desired data.

The following list shows the numberies that  
have one number in Wyoming and was communicated to  
Mr. Wolpert by Mr. Aved Wilson, Secretary of the Wyoming  
State Board of Agriculture.

Nurseries Having Sold Stock in Wyoming.

D. M. Andrews,	Boulder, Colorado
Barteldes Seed Co.,	Denver, Colorado
Bismark Nursery Co.,	Bismark, N. Dakota
Brand Nursery Co.,	Fairbault, Minnesota
H. W. Burkbee,	Rockford, Illinois
Colorado Nursery Co.,	Loveland, Colorado
Crete Nurseries,	Crete, Nebraska
International Nurseries,	Denver, Colorado
Denver Nursery Co.,	Denver, Colorado
Fairbury Nurseries,	Fairbury, Nebraska
Gardner Nursery Co.,	Osage, Iowa
Gurney Seed & Nursery Co.,	Yankton, S. Dakota
Harrison Nursery Co.,	York, Nebraska
D. Hill Nursery Co.,	Dundee, Illinois
Humphrey Nurseries,	Humphrey, Nebraska
Jewell Nursery Co.,	Lake City, Minnesota
R. M. Kellogg Co.,	Three Rivers, Michigan
Marshall Brothers,	Arlington, Nebraska
L.L.May & Co.,	St. Paul, Minnesota
Northern Nursery Co.,	Denver, Colorado
Northern Colorado Nursery,	Loveland, Colorado
Plumfield Nurseries,	Fremont, Nebraska
Porter-Walton Co.,	Salt Lake City, Utah
Shenandoah Nurseries,	Shenandoah, Iowa
Sherman Nursery Co.,	Charles City, Iowa
Sondregger Nursery & Seed Hse.,	Beatrice, Nebraska
Southerland Gardens,	Boulder, Colorado
Stark Bros. Nursery Co.,	Louisiana, Missouri
State Nursery Co.,	Helena, Montana
Wagner Park Nursery Co.,	Sidney, Ohio
Yakima & Columbia R. Nursery Co.,	North Yakima, Washington

RESUME OF WORK IN SUBDISTRICT I.

Field Assistant Joseph Yencso began the work of inspection in this district in Montana on June 10th, and continued until September 30th, at which time he was called





into military service. The writer, Mr. George A. Root, continued the field work left by Mr. Yencso, starting in on Lincoln County, but owing to illness was only able to devote three days to the work, - October 17, 18, and 19.

A total of 1,357 inspections have been made. These are divided among the following counties: Missoula, 421; Mineral, 48; Ravalli, 143; Sanders, 386; Flathead, 330; and Lincoln, 29. The following number of shipments were unable to be located in each county: Missoula, 131; Mineral, 5; Ravalli, 63; Sanders, 13; Flathead, 354; and Lincoln, 4, making a total of 580. Adding to this the number of actual inspections makes a total of 1, 937 inspection cards accounted for in this district.

In Missoula County inspections were made in 21 towns and villages, more than half of the inspections being confined to Missoula and Roman; in Mineral in 9 towns, the number in each town being nearly equal; in Ravalli in 9 towns, one-third of the inspections being made in the towns of Hamilton and Stevensville; In Sanders in 19 towns, one-third being made in the towns of Camas and Dixon; in Flathead inspections were made in 22 towns, one-half being made in the towns of Kalispell and Polson; and in Lincoln County in 3 towns. The latter county is still incomplete.

into military service. The writer, Mr. [Name], [Address], [City], [State], [Date].

Continued the field work left by Mr. [Name], starting in [Month], [Year], but owing to illness was only able to [Duration].

A total of [Number] inspections have been made. These are listed under the following counties: [List of Counties].

The following number of [Type] were made to be located in each county: [List of Counties and Numbers].

Adding to this the number of [Type] inspections made in [County] in [Year] a total of [Number] inspections are accounted for in this district.

In [County] a special [Type] were made in [Month], [Year] and [Month], [Year], more than half of the [Type] being reported to [Agency] in [County] in [Month], [Year].

The number in each town being nearly equal; in [County] in [Month], [Year], one-third of the [Type] being made in the towns of [List of Towns] and [List of Towns]; in [County] in [Month], [Year], one-third being made in the town of [List of Towns] and [List of Towns]; in [County] in [Month], [Year], one-third being made in the town of [List of Towns] and [List of Towns], one-third being made in the town of [List of Towns] and [List of Towns].

The latter county is still incomplete.

RESUME OF WORK IN SUBDISTRICT II.

I. Idaho.

Field Assistant Norman W. Scherer began work at Boundary County, completing that county and also Bonner and Kootenai Counties. A few inspections of pine and Ribes were also made in Latah County. The writer, as previously mentioned, completed Shoshone County, starting work there September 24th.

A total of 821 inspections have been made, divided among the following counties: Boundary, 116; Bonner, 283; Kootenai, 293; Shoshone, 104; and Latah, 25. The following number of shipments were unable to be located in each case: Kootenai, 50; Boundary, 8; Bonner, 11; and Shoshone, 17. This makes a total of 76 unlocated cards, which, added to the list of inspected ones, brings the total to 897 cards accounted for in Idaho.

In Boundary County inspections were made in 11 towns or villages, more than one-half being made in Bonner's Ferry, and vicinity; in Bonner County in 30 localities, the number in each place being nearly equal; In Kootenai County in 32 localities, a little more than one-third of the inspections being made in Coeur d'Alene and vicinity; in

REPORT TO THE BOARD OF HEALTH

I. Idaho.

Field Assistant Norman A. Cooper began work at Lemhi County, comprising that county and also Bonner and Kootenai counties. A few inspections of pine and larch were also made in Idaho County. The writer, as previously mentioned, completed Madison County, starting work there in the latter part of the season.

A total of 531 inspections have been made, divided as follows: Bonner, 115; Kootenai, 283; Madison, 101; and Idaho, 32. The following number of shipments were made to be tested in each case: Kootenai, 10; Bonner, 11; and Madison, 17. This makes a total of 73 unloaded cars, which, added to the list of inspected cars, brings the total to 277 cars accounted for in Idaho.

In Bonner County inspections were made in 11 towns or villages, with one-half being made in Bonner's Ferry, and visiting in Lemhi County in 30 localities, the number in each place being nearly equal; in Kootenai County in 32 localities, a little more than one-third of the inspections being made in each town and vicinity; in

Shoshone in 11 towns or villages, one-fourth being confined to the City of Kellogg; and in Latah County inspections were made in Moscow only. This latter county is still incomplete, but these few inspections were made as they included shipments of Eastern white pine.

## II. Spokane and Pend Oreille Counties,

### Washington.

Field Assistant Norman W. Scherer and one of the writers, George A. Root, made inspections in Pend Oreille and Spokane Counties, respectively. The number of inspections for this district is 178, divided as follows: Pend Oreille County, 128, and Spokane County, 50. In Pend Oreille one shipment was unable to be located, and in Spokane, 11. This total of 12, added to the above total of 128, brings the total number of cards accounted for up to 139.

In Pend Oreille County inspections were made in 16 towns, about one-third being made in New Port. In Spokane County inspections were made in 7 towns, 90% being made in the vicinity of Spokane. Pend Oreille County is completed, but a considerable amount of work still remains to be done in Spokane County. These have included, however, all known pine shipments.



RESUME OF WORK IN SUBDISTRICT III.

Field Assistant Ferdinand Wolpert began inspecting in Wyoming on June 18, 1918. The work progressed rapidly until Mr. Wolpert, having been called to the colors, left for Camp Dodge, Iowa, on July 22. Dr. James R. Weir, while in Wyoming, later in the summer, did some further inspection of nursery shipments. A total of 184 inspections were made in Wyoming. These are divided among the counties as follows: Sheridan, 53; Park, 94; Weston, 8; Albany, 3; Crook, 6; Fremont, 12; Carbon, 6; Big Horn, 1; and Niobrara, 1. The following number of shipments were unable to be located: 5 in Sheridan; 1 in Fremont, and 1 in Big Horn, making a total of 7. The number of cards accounted for in Wyoming total 191.

In Sheridan County inspections were made in 2 towns, 90% being in Sheridan and vicinity; in Park inspections were made in 4 towns, 85% being in Powell; in Weston, 2 towns; in Carbon, 2; in Albany, 1; in Crook, 1; in Fremont, 1; in Big Horn, 1; and in Niobrara, 1. None of these counties are completed.





SUMMARY

With a decrease in the force of men which would ordinarily be required to cover the entire district, considering the large number of cards on hand, it was deemed best to cover as much of the area as possible within the Western white pine belt. It was hoped that the work might be completed as far south as the Clearwater River, as this would include pretty much the white pine area. As it now stands, the territory is completed as far south as Benewah County. A little more than one-half of the white pine area has been covered, together with certain parts of Wyoming. (See blueprint and maps accompanying this report).

In Montana inspections were made over an area covering the entire portion of the Western Pine. As previously mentioned, 1, 937 inspection cards were traced in 83 towns in 6 counties. Very few of these represented white pine shipments.

In Idaho and Pend Oreille and Spokane Counties of Washington, inspections were made in the heart of the white pine area, and numbered 1, 036, covering 108 towns and localities in 7 counties. The largest number of white pine shipments were located in this subdistrict, the largest

White Pine

With a decrease in the number of men which would  
ordinarily be required to cover the entire district, consid-  
ering the large number of cords on hand, it was deemed  
best to cover as much of the area as possible within the  
Western White Pine belt. It was hoped that the work of the  
be completed as far south as the Silver River, as this  
would include pretty much the white pine zone. As it now  
stands, the territory is covered as far south as Sawtooth  
County. A little more than one-half of the white pine zone  
has been covered, together with certain parts of Wyoming.  
(See blueprint and maps accompanying this report.)  
In Western Idaho the work was done over an area  
covering the entire portion of the Western line. As pre-  
viously mentioned, 1,000 inspection cords were placed in  
50 towns in the country. Very few of these represented white  
pine timber.  
In Idaho the four districts and Spokane counties  
of Washington, the others were made in the heart of the white  
pine area, and covered 1,000, covering 100 towns and in-  
cludes in 7 counties. The largest number of white pine ship-  
ments were located in this territory, the largest

individual shipments being at the University of Idaho at Moscow. These plantings originally comprised some 1,200 trees, but some of these have been shipped as orders to various places throughout Idaho and Washington.

In Wyoming inspections were made here and there in a general way. Inspections numbering 191 took place in 17 towns in 9 counties. Very few pine shipments were made into this state. Ribes and pine shipments traced in the entire district number 3, 164, divided among 208 towns and localities in 22 counties. The number of pines in the above inspected shipments is 1,565, and the approximate number of Ribes is 48, 650.

The Office at Missoula has in its files at the present time 8, 555 uninspected cards, distributed among 601 localities, in Subdistrict 1. Not over 12 of these represent Eastern Pine shipments.

In Sub-district 2 there are 5, 192 cards distributed among 312 localities. Here is found the largest number of cards representing white pine shipments, which number 15.

In Subdistrict 3, 708 cards are still uninspected distributed among 109 localities. Summing up the total for the entire district there are 14, 455 cards, distributed among 1,022 towns or localities. These cards represent a total



of approximately 581, 000 Ribes and 1,250 white pine.

At this point may be mentioned the fact that the area in which inspections have been made is apparently free from the rust, and while this does not conclusively prove that the entire district is free, it is hoped that such is the case. It should, however, relieve a certain amount of anxiety felt in regard to this Northwest section.

#### NOTES.

Conditions for the spread of the white pine blister rust are most favorable throughout the entire district. Wild Ribes of all varieties abound in the canyons, along brooks and roadsides. These were often inspected where found. Cultivated Ribes are distributed throughout the entire district. In Spokane County there are innumerable plantings, located in the orchard regions of the Spokane Valley. These plantings often consist of several hundred bushes, and from which a partial livelihood is gained from the sale of the fruit. There are perhaps more Ribes per square mile in this section than in any other in the entire district. The native white pine are quite a distance away from this locality. The land boom in and around Spokane several years ago was instru-

of approximately 581,000 lbs and 1,450 white pine  
at this point. The amount of the  
area in which inspections have been made is approximately 100  
from the west, and while this does not necessarily prove  
that the entire district is free, it is a good indication  
the case. It would, however, require a careful amount of  
activity in regard to this district.

1911

Inspection for the purpose of the white pine dis-  
trict was made throughout the entire district.  
Wild pine of all varieties shown in the various  
groups and localities. These are often scattered  
Cultivated pine was distributed throughout the entire dis-  
trict. In certain cases there are considerable quantities  
located in the various ranges of the district. These  
quantities often consist of several hundred trees, and from  
which a partial harvest is gained from the sale of the  
fruit. There are groups which are more or less in this  
section than in any other in the entire district. The native  
white pine are quite a distance west from this locality. The  
land shown in the various sections is very low and

mental in bringing about large sales of nursery stock, both for orchards and landscape plantings, including Eastern white pine. Several small plantings were noted in the grounds of some residences. These proved to be from Eastern nurseries, and cards for those shipments were lacking. Such conditions may be true in other places, and sharp watch should be kept for such plantings, especially in residential sections.

It is not surprising that many of the nursery shipments as listed on the cards could not be located, for the population of this district, especially in Idaho and portions of Montana, is more fluctuating than perhaps any other state in the Union. Many places were abandoned, with the stock gone, either having been eaten by cattle or died from neglect and drought. In the entire district there are 674 unlocated cards. As an illustration of conditions; the writer will cite the case as found in Polson in Flathead County, Montana. Of the 292 cards for that town, 69 were unable to be located; 85 had moved, and bushes nowhere to be seen; 60 were found to be dead, and 78 healthy. This is the largest percentage noted, but should not be applied to all sections, however.

The people as a whole, throughout the entire district, are ignorant of the disease and its devastating character. Educational campaigns should be pushed with vigor, through the use of posters, exhibition of diseased specimens,

mental in relating about large areas of water, both  
for economic and landscape planning, including  
water lines. Several small basins were noted in the  
vicinity of some basins. These proved to be from  
numerous, and cords for these and water were located, which  
conditions may be true in other basins, and their water  
should be used for such purposes, especially in water-  
rich sections.

It is not surprising that many of the basins  
shipped as listed on the cards are not of 1 class, but  
the position of this district, especially in terms and for-  
tunes of basins, is more distinctive than perhaps any other  
state in the Union. Many basins were abandoned, and the  
stock rose, either having been sold or cattle or other  
neglect and drought. In the entire district there are 24  
relocated basins. As an illustration of conditions, the  
writer will cite the case as found in class 1, 1st  
County, Kansas. Of the 100 basins for that town, 63 were  
unable to be located; 33 had water, and some basins in  
the same; 63 were found to be dead, and 10 basins. This  
is the largest percentage noted, but should not be applied  
to all sections, however.

The results as a whole, based upon the entire dis-  
trict, and treatment of the basins and its surrounding con-  
ditions. Additional conditions should be found with vigor,  
through the use of posters, exhibition of located basins,



and the press. The various Fairs which are held each year throughout the Northwest would be ideal places for such exhibitions, together with the distribution of literature.

Though the disease has not appeared in the West, as far as is known, the matter of giving it wide publicity should receive as much attention here as in some of the Eastern states where it is strongly entrenched.

The horticultural inspectors, together with their deputies, should make themselves fully acquainted with the disease in all its forms. They should be required to make more thorough examinations and inspections of nursery stock, especially that transmitted through the mails by parcel post. Many such shipments are never inspected, owing to the absence in some cases of a deputy inspector in that particular region. The personnel of the deputy inspectors should be raised, as the present writer is informed that express agents very often act as inspectors. Field Assistant Norman W. Scherer has incorporated in his report for Idaho the following, which might be applicable to the other subdistricts: "\*\*\* 2. That the County Agricultural Agents be deputized as Deputy Nursery Inspectors. This would mean educated and active men as inspectors, well distributed over the state. At present there are 15 Deputy inspectors and 40 County Agricultural Agents. The money used at present for the Deputy Inspectors could profitably be used with County Agent funds. With this suggestion in operation all nursery

and the press. The various trials which are held each year throughout the Northwest would be held in each of the various States, together with the distribution of literature. Through the disease has not occurred in the West, as far as is known, the matter of giving it wide publicity should receive as much attention as in some of the Eastern States where it is already widespread.

The horticultural inspectors, together with their deputies, should also wherever they are required with the disease in all its forms. They should be required to make more thorough examinations and inspections of nursery stock, especially that transmitted through the mails by parcel post. Many such shipments are never inspected, owing to the absence in some cases of a deputy inspector in that particular region. The amount of the deputy inspectors should be raised, as the present number is insufficient to express against very small and as inspectors. This is especially true in the case of the States where the number of inspectors is small and the number of nurseries is large, which might be applicable to the other States. It is suggested that the County Agricultural Agents be designated as deputy nursery inspectors. This would mean that the County Agricultural Agents, well distributed over the State, in present time are 13 deputy inspectors and 13 County Agricultural Agents. The total cost of the State for the purpose of inspecting nurseries could profitably be used for the purpose of inspecting nurseries. With this in view in operation of the nursery agents.

stock could be inspected free gratis to the parties con-  
signed,-- doing entirely away with the present charge  
system for inspection, which is not relished by the re-  
ceiving public."

The men in the Forest Service should become more  
fully acquainted with the rust. In an interview with the  
Acting District Forester, Mr. Rutledge, he stated that the  
men are little acquainted with the disease. He offers his  
co-operation in this work, in any way that would be of ad-  
vantage to the Plant Bureau. He further stated that Forest  
rangers, covering a great deal of ground as they do, might  
be of some service.

About 85% of the inspections made during this  
field season were from nurseries located in Oregon and  
Washington. The remaining uninspected cards on file repre-  
sent shipments from Montana and Middle Western nurseries.  
Eastern nurseries, as well as all others not already asked,  
occurring on the Government blacklist, will be requested  
to send in records of sales of their stock into this dis-  
trict. However, it has been suggested that it might be  
more advantageous to have the Government men go direct to  
these various nurseries and obtain the required data. The  
time spent by the nurseries themselves in compiling lists

stock could be traced to the parties con-

cerned, -- being entirely over the present course

system for inspection, which is not required by the re-

ceiving public."

The men in the forest service should become more

fully acquainted with the forest. In an interview with the

acting district forester, Mr. [Name], he stated that the

men are little acquainted with the disease. He offers his

co-operation in this work, in any way that would be of ad-

vantage to the forest service. He further stated that forest

rangers, covering a great deal of ground as they do, might

be of some service.

About 80% of the inspections made during this

field season were from nurseries located in Oregon and

Washington. The remaining percentage came on the re-fer-

ent shipments from Kansas and Idaho to eastern nurseries.

Eastern nurseries, as well as all others not already men-

tioned on the Government checklist, will be requested

to send in records of sales of their stock into this dis-

trict. However, it has been suggested that it might be

more advantageous to have the Government men go direct to

these various nurseries and obtain the required data. The

time spent by the nurseries themselves in compiling lists

of sales for this work has been considerable, and a few have begrudged such time, though as a whole the co-operation has been very good.

Considering the small force of field men, which would not perhaps average more than two for the entire season, and the territory over which they were obliged to travel, it is the opinion of the writers that considerable work was accomplished. If the blister rust inspection is to proceed in the same way during the 1919 season, with the hope of inspecting all cards now on hand, a large force of experienced men will be required. There seems to be no other way than to continue along such lines, in order to prevent the blister rust from becoming seated in the Northwest.





