O'GARA'S REPORT FOR FISCAL YEAR SHOWS MUCH WORK

Report of the Pathologist for Jackson county for the fiscal year beginning July 1, 1912 and ending June

To the honorable county court of Jackson county:

In accordance with the usual custom, I am herewith tendering the ananal report of the work done by the pathologist's office during the fiscal year beginning July 1, 1912 and ending June 30, 1913:

The duties of the pathologist come work. 3. Laboratory investigations. and papers.

Inspection

so much so that if every tree now ing apples seriously, it at once begrowing in the Rogue river valley or- came injurious to pears. It is easchards were given half a minute of ily controlled by spraying. The eritime, the four inspectors working ten nose mite of the grape has also been hours a day, and allowing no time for found and is controlled by lime-sultravel, could not make the rounds in phur spray. less than two years time working A fungous organism heretofors every day of the year. Fortunately, we are assisted in a very great degree by the large number of deputies, and fungus is being investigated as it by many of the large orehard owners whose interests in their own wel- the stone fruit industry. fare and that of the valley are such that they can be depended upon for

Careful attention is given to the inspection of nursery stock, seeds and plants. Owing to the fact that we have found potatoes shipped in from California points infested with the dangerous Tuber Moth larvae, all potatoes for consumption or planting are now held for inspection. We have also received co-operation from the California authorities in this matter. Alfalfa and grass seeds have been inspected and tested for purity.

Office and Library are also received from many sued by the pathologist's office are addition to the regular equipment. sent to the various offices and individuals on this list. In this way ford as the key station, were estabwhat we are doing in a horticultural by the pathologist's office. A need way in the Rogue river valley.

Laboratory

Laboratory work includes the examination of large numbers of specimens of fungi, insects, etc., sent in for examination. In many cases, determination can be made only after the cultivation of the organism, which entails careful work. Breeding cages for various insects, such as for codling moth investigations, cherry fruit saw-fly, peach bud moth and peach crown borer, are always in use.

The chemical examination of fungicides and insecticides necessitates much careful work. We are constantly testing new compounds and brands in the laboratory and in the field in the attempt to increase the efficiency of spraying methods. During the past year such materials as dry arsenate of lead and zine arsenite have been tested by field experiments. All of this work has for sary. its aim not only the matter of increasing efficiency in spraying, but in lowering the cost.

Soil testing in co-operation with the U. S. Bureau of Soils has also been a part of the work. This constitutes largely the matter of determining the presence of deleterious substances. Soil fertility investigations have also been carried out by frost prevention. field investigations.

Investigations

During the last year, continued work has been done in the matter of fertilizers and cover crops. It has been shown that cover crops may be readily grown in the Rogue river valley. In the growing of cover crops in the orehards, nitrogen and humus is added to the soil at the lowest possible cost. The physical character of the soil is also changed, making it easier to cultivate. It has been shown that farmers should not spend too much money in the purchase of commercial fertilizer. By the growing of cover crops, nitrogen is added, and, at the same time, unavailable plant fods are made available due to the presence of humus and the increase of the bacterial flora. In Rogue River Valley. (Bulletin No. the growing of alfalfa it has been 8.)

found that the addition of phosphate fertilizer in the form of superphos- No. 9.) phates has increased the yield from 50 to 100 per cent.

The wilt disease of potato and tomato plants has also been under inrestigation, and co-operative work will be continued with the U. S. Burcan of Plant Industry.

The discovery of the presence of the Cherry Fruit Saw-fly in the val-Bulletin No. 4.) ey necessitated work along the line of its control. This office was the first to publish the fact that this insect not only attacks cherries but plums and prunes, the latter very seriously. The insect has been controlled by spraying with arsenate of

Important work has been done on disease of the apple known as gon. "Water Core." The cause of this trouble has been determined and methods of taking care of the orchards and the fruit so as to reduce the amount of injury have been deunder the following heads: 1. In- vised. Bulletins have been pubspection. 2. Office and library lished for the purpose of acquainting growers with the trouble. The two Reference to Pear Blight. 4. Field investigation. 5. Weather bulletins published by this office are service. 6. Publication of bulletins the first published in the United Heating, Methods Used in the Rogue States on this subject.

Work has been done in investigat-The work of inspection includes ing the rusty leaf mite of the pear supervision of orchard inspection to- which had, heretofore, been injurious portance have been published both gether with that of nursery stock, to apples only in the eastern United in the local press and elsewhere. An seeds and plants, both imported and States. About three years ago, this immense amount of data is at hand exported. Orchard inspection con- mite was introduced into the Rogue and is being worked up preparatory sumes an enormous amount of time, river valley, and instead of attack-

unreported in the United States was found on the wild chokecherry. This may be of economic importance to

The Local Weather Bureau

The key station at Medford is now fully equipped, an anemometer and triple register having been installed during the year. With this instrument, wind directions and velocities are automatically recorded. For the first time we are getting accurate data on winds which play an important part in the climate of the valley. In addition, the office is equipped with a mecuric barometer, barograph, maximum and minimum thermometers, thermograph, psychrometer and rain gage. Besides the key station at Medford, there are ten other co-operative stations in the conty. The Furthermore, insurance of the con-Office and library work is very operative stations in the conty. The heavy due to the large correspond- stations at Jacksonville, Ashland, tents of the office, library and laboence and the receipt of numerous Siskiyon and Prospect were estabbulletins and other publications which lished a number of years ago. The must be properly catalogued and in- new stations are the Gardener ranch, to the expense of maintaining the ofdexed so as to be available for ref- and Lone Oak ranch, Talent; Hill- fice. erence. The library receives every crest and Hollywood, Medford; publication of the U. S. Department Woodlawn, Central Point; and the of Agriculture, together with the Oaks Orchard, Table Rock. The co- the office was \$1648.50, publications of the State Agricul- operative observers at each of these tural Experiment stations. Publica- stations take maximum, minimum, temperature readings, instruments. foreign countries. An exchange list The Hollywood and Hillcrest stations is maintained, and all publications is- are equipped with blaermographs, in

The seven new stations, with Medall parts of the world may know lished entirely through efforts made frosts. The proper representations were made to the district forecaster wages is asked. who recommended to the chief of the weather bureau the establishing of the seven stations. The co-operative observers report directly to the key station at Medford, also sending in to the district office at Portland the monthly summary. The greatest value of the large number of cooperative stations lies in the securing of data which make it possible to forecast frosts more accurately than heretofore. During the past season every district received daily telephonic advice as to the probable weather conditions which might occur during the next 24 hours. All frosts were accurately forecasted, not only as to their degree, but the hour at which firing would be neces-

> That this district enjoys the distinction of being the foremost in making a study of exact conditions. devising methods of economic orchard heating, etc., is evinced by the fact that the pathologist in charge has prepared for the New American Eneyclopedia of Horticulture, edited by Dr. Bailey of Cornell College, the

Publications

The publication of bulletins, circulars and papers has been an important part of the work connected with the office. Wherever information of a nature directly beneficial to the public is needed, timely publications have been prepared. Much information in the matter of spraying, or an available form. The farmer or fruit grower cannot take the time to memorize the various formulae time of application, etc., therefore he is furnished with up-to-date information in a form readily understood. The various publications issued during the fiscal year are:

Bulletins

Cover Crops for Orehards in the

Water Core of Apple. (Bulletin Spraying Calendar for 1913, (Bul

letin No. 10.) Studies on the Water Core of Apple. (Bulletin No. 11.)

Press Bulletins

The Grasshopper and How to Control It. (Press Bulletin No. 3.) The Potato Tuber Moth. (Press

Circulars Cider Vinegal and Its Making. (Circular No. 1.) Gardener's Calendar and Planting Table. (Circular No. 2.)

Papers Urophlyctis alfalfae, a Fungus

Economic Importance of the Mite Phyllocoptes schlechtendali, Nalepa. (Rusty Leaf Mite of the Pear.) The Cherry Fruit Saw-Fly and How

to Control It. Organization and Methods of Control of Plant Diseases, With Special

Frost Forecasting and Orehard River Valley.

Besides the above papers, a large number of others of more or less imto the publication of a number of very important papers.

Office Expenses

The expenses of the office have been borne largely by the pathologist in charge, the same being paid out of his personal funds. The expenses borne by the county have been office rental, part of the postage, express, telephone and telegraph, and an occasional smal sum for livery hire. The printing bills have been paid in part by the county. The sum of \$100 per month was allotted for office expenses, but this was by no means sufficient to carry the office

During the course of the year it was found necessary to purchase a new microscope with accessories, chemicals, laboratory and office furniture, books, together with an outlay for printing and binding. In addition to the above it was found necessary to meet the expenses for extra jostage, telephone, telegraph and express. Railroad fare and livery bire for official work were prac-Furthermore, insurance of the conty warrants received as salary added

The actual amount paid out of the pathologist's salary for maintaining

Respectfully submitted. P. J. O'GARA, Pathologist for Jackson county.

EASTERN TRAINMEN TO STRIKE FOR INCREASE

NEW YORK, July 8 .- Announcement was made here today that 94 per cent of the conductors and trainwas felt for more accurate data in men on eastern railroads have voted studying conditions relating to spring to strike unless their demands are acceded to. A general increase in

> Mrs. Fiske will tour the Canadian northwest this fall.

AWFUL PAINS

For Sixteen Years. Restored To Health by Lydia E. Pinkham's Vegetable

Compound.

Moretown. Vermont.-"I was troubled with pains and irregularities for



sixteen years, and was thin, weak and nervous. When I would lie down it would seem as if I was going right down out of sight into some dark hole, and the window cur-tains had faces that would peek out at me, and when I was out of doors it would

seem as if something was going to hap-pen. My blood was poor, my circula-tion was so bad I would be like a dead person at times. I had female weakness badly, my abdomen was sore and I had awful pains.

"I took Lydia E. Pinkham's Vegetable Compound and used the Sanative Wash and they certainly did wonders for me. My troubles disappeared and I am able to work hard every day."—Mrs. W. F. Sawyer, River View Farm, More-

Another Case.

Another Case.

Gifford, Iowa.—"I was troubled with female weakness, also with displacement. I had very severe and steady headache, also pain in back and was very thin and tired all the time. I commenced taking Lydia E. Pinkham's Vegetable Compound and I am cured of these troubles. I cannot praise your medicine too highly."—Mrs. INA MILL-SLAGLE, Gifford, Iowa.

NEW GAME OF HOTEL ROBBERS

BERLIN, July 8.-The German provincial police are endeavoring to gas himself. The lady stands at the remning a gang of hote lthieves work- door of her room; rarely will she ening an entirely new trick variously ter while the chivalrous farmer is known as "The Magnet" or "Tthe there. She is very modest. The vic-Moth and the Candle." Hotels are tien is in no hurry to leave. selected in the provincial towns Disease of Alfalfa Occurring in Ore- which have no electric lights and few even among the best, have that, Unsually a rich farmer or traveler is picked out as the victim. A beautiful young woman, called the "magnet" rents an adjoining room. Late at night the victim is awakened by a but sweet voice stammers out that fall.

its owner is in difficulty. Her candle or gas light has been extinguished. She has no matches.

The victim can't resist that voice. He opens the door of his room and sees in the dim hall, a picture in bewitching negligee, downcast eyes and blushing cheeks. The victim, whether young or old, feels that gallantry demands he should aid beauty in distress. No, he demurs at giving her matches. He insists upon going to her room and lighting her candle or

When he awakens in his own room into the room while the "magnet" was having her candle or gas lighted.

Edward Sheldon's play "Romance

MISS PANKHURST PAYS \$10 FINE TO

LONDON, July 8. Screams of de fiance were burled at London authorities in Bow Street court here today when Sylvia Pankhurst, daughter of next morning he finds he has been were given prison terms. When at Guaymas. Taylor asserts that i. robbed of money and jewelry. Con- Miss Pankhurst was arrested last M. Morrison of Potsdam, N. Y., was federates of the "magnet" slipped night for speaking on the street she held prisoner for three months, and fiercely resisted the police.

light knock on the door and a shy will reopen in New York early in the months' sentence was then imposed, agent, also was subjected to hard-"I won't stay in jail," she screamed ships. Taylor alleges.

and you cannot keep me there. will start a hunger strike,"

Miss Emerson was sentenced to one nonth's imprisonment at hard labor. She was convicted of resisting an

Later the magistrate recalled Miss Emerson and gave her the option of paying a \$10 fine or going to jail. She paid the fine.

PROTEST TREATMENT OF AMERICANS AT GUAYMAS

LOS ANGELES, Cal., July 8 .-Protests of treatment necorded Americans in Sonora have been sent Mrs. Emmeline Pankhurst, and Zelie the state department today by C. D. Emerson, the American suffragette Taylor, United States consular agent then compelled to walk fifty miles The court demanded that Miss, when the Mexican federals evacuated Pankhurst give bond for good be- the town of Torin. A. P. Browning havior. She flatly refused. A three of Arizona, a Guaymas commission

HORSES HORSES HORSES **MARES MARES** For Sale JUST ARRIVED or Trade

20 head of horses and mares all right out of hard work. Have finished contract and must be disposed of. \$225, a well matched pair of chunky mares eight and nine years old, weight 2700, with nice flowing manes and tails, they are good fast walkers and true workers, kind and gentle in or out of stable. This price includes their heavy butt chain breeches harness all for \$225 with two weeks trial allowed.

\$75, a chunky brown mare 8 years old, weight 1300, will work single or double, two weeks trial allowed.

\$150, a pair chunky mares about nine years old, weight 2400 and their brass mounted harness and collars with two weeks trial allowed. Would go out and make any man a good living.

\$210, a chunky team six and seven years old, weight 2200, well matched in size and color and are well broke single or double or under the saddle. This price includes their harness and collars and 234 inch wagon, all in fine shape, will sell separate and allow two weeks trial.

\$90, a chunky black horse, age ten years, weight 1450, two weeks trial allowed.

\$75, a handsome bay mare six years old, weight 1150 and with nice flowing mane and tail, broke double only, two weeks trial allowed.

\$50, a chunky black mare, eight years old, weight 1150, good worker, two weeks trial allowed or will trade.

\$15, a good stock saddle and bridle.

\$65, a good side spring mountain wagon.

\$25, a sorrell mare about ten years old, weight 1100, two weeks trial allowed.

\$40 or best cash offer, a Jersey cow.

\$25, a heavy butt chain bucher harness and collars.

Missouri Mamalt Jack five years old and a sure foal getter, will sell cheap or trade for

WE HAVE TAKEN THIS STOCK IN EXCHANGE FOR LAND, MUST SELL AND WILL AL-LOW TRIAL ON ALL STOCK AND ALL STOCK MUST BE AS REPRESENTED. THIS CAN BE SEEN AT A Committee of the Comm

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P. M. Kershaw General Manager

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