

STATE LAND SURVEYS SPEED RECLAMATION

108,400 Acres Drained; 487,800 to Be Irrigated.

OREGON SAVES MILLIONS

Wildcat Speculator Eliminated and Tracts Put to Work at Minimum of Cost.

Feasibility surveys made by W. L. Powers, chief of soils at the Oregon experiment station at Corvallis and head of the soils department of the agricultural college during the last few years, are largely accountable for the present success of reclamation work in Oregon...

State Saves Millions. By recommending only those projects which will pay well and be successful, the feasibility survey work carried on by the agricultural college has been of vast importance in establishing new projects. Millions of dollars have been saved the state by avoiding reclamation of land which would have involved expenditures greater than the increased value of the crops produced...

Reclamation is just beginning in Oregon. It is common knowledge that there are millions of acres of dry land in eastern Oregon which will yield good crops just as soon as water can be brought to them. But it is not generally known that there are some 150,000 acres of tule lands, also in eastern Oregon, which will produce abundantly just as soon as the water can be drained off.

Five hundred thousand acres of land were surveyed in the last biennium to determine the feasibility of draining them. Approximately 200,000 acres are waiting for surveys to determine the feasibility of drainage or irrigation.

The 12 drainage projects forwarded in the past two years by these surveys include Multnomah, Peninsula, Umatilla, Ontario, Scappoose, Lakeside, Lower Glass, Fox, Willamette, Beaver slough, Depot slough, Wocus and Caledonia marshes and lower Klamath.

Speakers at Yamhill Emphasize Benefits of Organization.

A meeting of great importance to the prune growers of the Gaston, Covya Orchard, Yamhill and Carlton sections was held here today, when Professors Brown and Bares of Oregon Agricultural college, E. L. Lewis, president of the Oregon Fruit Growers' association, Earl Percy of Dilley, M. Russell and M. Newhouse, president and manager, respectively, of the Clarke County (Wash.) Fruit Growers' association, addressed a large audience on the proper care of orchards and other phases of the prune industry...

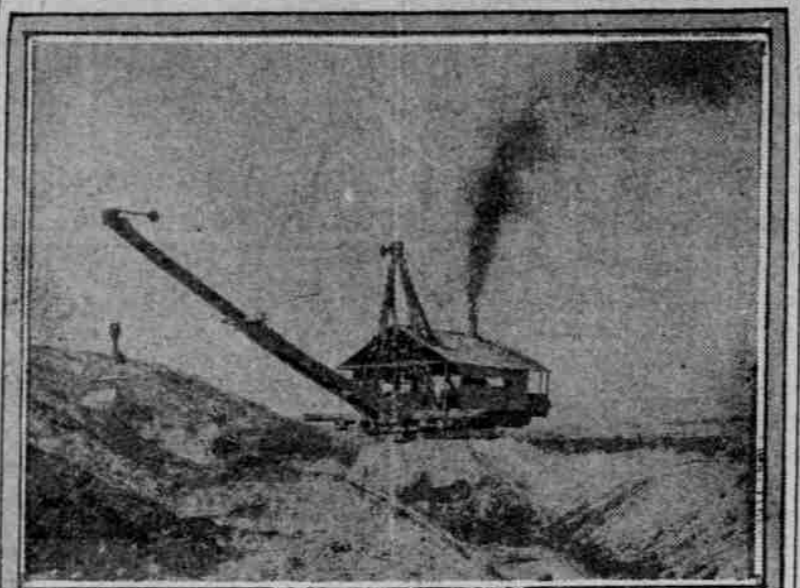
FRUIT COSTS TO DROP - Growers Expect Expenses to Show Decline in 1921.

HOOD RIVER, Or., Feb. 20.—(Special.)—The cost of producing a box of apples in 1921 will be approximately 25 per cent under 1920 costs, according to Charles H. Castner, manager of the Hood River Fruit company. Apple boxes were retailed to growers last year at 37 to 38 cents each. A price of 17 and 18 cents is expected to be established this year. The cost of strawberry crates and pear boxes shows a similar decline.

OLD Orchard Being Pruned.

WHITE SALMON, Wash., Feb. 20.—(Special.)—Harry McCoy and Ed Fordyce have been pruning the orchard connected with the county farm, located where the town of Cliffs once stood. This orchard, one of the oldest in this section, has been neglected for many years and many of the trees are exceedingly tall with trunks more than 2 feet in diameter.

RECLAMATION WORK PROGRESSING ON TWO OF MANY OREGON PROJECTS AS RESULT OF FEASIBILITY SURVEYS.



Above—Work of digger on reclamation project. Below—Clearing brush from land preparatory to irrigating.



Above—Work of digger on reclamation project. Below—Clearing brush from land preparatory to irrigating.

CHERRY TARIFF ADOPTED

FOREIGN FRUIT TO BE TAXED 4 CENTS PER POUND.

Senator McNary Notifies Growers' Association That Amendment Has Been Approved.

That the Oregon cherry industry will be protected from the influx of the cheaper foreign fruit is indicated by advice from Washington, D. C., to the effect that the senate adopted Senator McNary's amendment to the tariff bill placing 4 cents a pound on imported cherries.

Under date of February 17 Senator McNary telegraphed the Oregon Growers' Co-operative association as follows: "Senate has just adopted my amendment placing 4 cents per pound duty on cherries in raw state or preserved in brine."

Senator McNary had previously appeared before the senate committee on appropriations in an argument as to why cherries should be protected from the low prices offered by Italy, due to the low rate of exchange for Italian money.

In another instance Senator McNary came to the aid of the fruit industry when he, as chairman of the agricultural committee of the senate, had \$40,000 appropriated for the study of fruits while in ocean transit. It had been proposed to reduce the appropriation to \$20,000.

The Oregon Growers' Co-operative association, co-operating with California bodies, has asked Senator McNary to get an appropriation of \$10,000 for the study of spraying for codling moth.

Sprays now used leave a film on fruits and pears and this is often thought poisonous by eastern buyers. It is hoped that scientists will find some sort of spray that will not leave this film.

Applied in Right Way, Professor Lovett Says San Jose Scale, Red Spider, Etc., Can Be Fought.

OREGON AGRICULTURAL COLLEGE, Corvallis, Feb. 20.—(Special.)—Lime-sulphur rather than oil emulsion spray is recommended to Oregon orchardists as a clean-up dormant or delayed dormant application by A. L. Lovett, station entomologist. In reply to a heavy volume of inquiries from western Oregon growers.

The lime-sulphur spray is a western development, and its composition, use, value, methods of application, results and limitations are well known, Professor Lovett pointed out. It has justly won universal favor as a control for a variety of serious pests, having as it does both insecticidal and fungicidal properties. Applied in the right way at the right time, it will control San Jose scale, red spider, pear-leaf blister mite, twig miner and moss.

The proper type of oil sprays will handle effectively the same insect troubles, but cannot be applied for control of plant disease. They do not have the advantage of being the only satisfactory material known for control of the leaf roller.

These oil emulsion sprays are of more recent origin than lime-sulphur so far as their commercial preparation in a variety of forms is concerned. That they have merit is indicated by their increased use. Progressive growers are greatly interested in this new development, and are writing to the station to find its merits, methods of use and limitations, as compared with lime-sulphur.

One advantage of the oil sprays is their apparent beneficial effect on the bark of the tree. Lime-sulphur is very caustic and its continued use is sometimes thought to develop a bark-bound condition. The oils tend to soften and relieve this condition and appear to have an invigorating effect on the bark.

Either of these materials is affected unfavorably by excessive rains following close upon application. Of the two, the lime-sulphur seems to suffer the least from this cause. If given sufficient time to dry thoroughly its effectiveness is lowered but little if any by the rains. The effectiveness of the oil sprays is materially decreased if not entirely destroyed by frequent rains following application.

The big handicap of oil sprays in

western Oregon is that rains greatly reduce the efficiency," said Professor Lovett. "Hard frozes have been known to kill trees recently sprayed with oil. With our present limited knowledge of oil sprays, the advisable course is to use lime-sulphur as the main dependence, and oil on a limited number of representative trees, spraying them carefully and observing results."

Extensive investigations of the comparative value of oil sprays—their advantages and disadvantages—are now under way at the station. If growers hold to their earlier practice of lime-sulphur for the bulk of their control work, using only test plots for the oils, they may not only save themselves considerable trouble and expense, but will at the same time increase the information on the use of the oils.

If the commercial oils are used in these tests the heavier grades are recommended by Professor Lovett. These will come in emulsified form in containers, but must be thoroughly stirred before being drawn off, or only the oils, which are lighter than the emulsifiers, will be taken.

In preparing the oils for use in the spray tank, growers are advised to stir the contents of the container till the oils and emulsifiers are thoroughly mixed. Then measure out the required amount and add to it about twice the volume of water. When thoroughly emulsified pour into the spray tank and dilute.

Care is advised to pour the water into the oil, not the oil into the water. The containers will probably carry directions for mixing and use. In general the dilution is 100 gallons of water to 8 gallons of oil.

MILK RECORDS MARVELOUS - Holstein Cow's Product for Year 1448 Pounds of Butter.

SEATTLE, Wash., Feb. 20.—(Special.)—A western Washington cow has just broken all records for milk and butter production. Segis Pieterje Prospect is the name of this new world champion and she is an honored member of the famous Holstein herd owned by the Carnation Milk Stock farms.

In a test lasting 365 days, Prospect produced 27,331.1 pounds of milk, containing 1448.58 pounds of butter, exceeding the previous record, held by Tulle Alcarra of California, by 245 pounds of milk and 125 pounds of butter.

In one year this marvelous milk maker produced a quantity equal to 22 1/2 times her own weight of 1650 pounds. Expressed in terms of liquid measure, the total production was 17,520 quarts, an average of 48 quarts per day. Her greatest single day's yield was 128.3 pounds of milk, containing 5.94 pounds of butter.

800 FINE BIRDS EXHIBITED - Sherwood Poultry Show Wins Praise From Judge Coats.

More than 800 fine birds were gathered together from all parts of western Oregon at the annual winter poultry show held at Sherwood, Or., January 13 to 15. Judge Coats of Seattle, who made the awards, expressed his appreciation of the high quality of the exhibits. Besides the standard poultry, unusually fine displays of water fowl and pigeons were shown.

The pens of commercial laying hens, 25 in number, were a part of the show that attracted great attention.

Cowit Breeder to Meet.

KALAMA, Wash., Feb. 20.—(Special.)—There will be a meeting of the Cowit County Holstein Breeders' club February 18 at Kelso. Delegates to the Chehalis convention will be selected. Mr. Buchart, executive secretary of the state association, will be present.

Sunday Schools Plan Meeting.

ABERDEEN, Wash., Feb. 20.—(Special.)—Sunday school officials from all the Protestant churches of the city will meet tomorrow night to make preliminary plans for a convention of western Washington Sunday schools here May 7 and 8. E. L. Gregory, state secretary of the Western Washington Sunday School association, will meet with the local officials. Between 125 and 150 delegates are expected to attend the convention in May.

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PRACTICAL SCHOOLS HELD

Better Methods of Trimming Trees Demonstrated and Spraying, Soil Management Studied.

An organized effort to better the quantity and quality of Oregon fruit has been started by the fruit project committees of the county farm bureaus, county agents, fruit inspectors and extension service of Oregon Agricultural college. A series of pruning schools has just been concluded by Clayton L. Long, extension horticulturist, in co-operation with the above forces as the first step in a three-year program.

These schools have been held for four days in organized counties calling for the work. The first half-day in each was spent in orchard work, with county agents, fruit inspectors and fruit project committees of county farm bureaus for the purpose of organizing the schools and getting together on the fundamentals of pruning. Mr. Long was in charge and demonstrated the most successful methods as worked out by research men of the country and the more successful growers. By noon these leaders were agreed upon the fundamentals and ready to start the school.

The afternoon was used in setting forth the principles to be followed, demonstrations by leaders and discussions by all. Those having ideas of their own differing from the principles worked out by the committees were spotted. The next morning they were given opportunity to prune trees as they saw fit, with the understanding that they would attend the schools in 1921 and 1922, giving the results of their 1920 pruning and continue their pruning of the same trees.

Keen Interest Manifested. During the four days each grower in attendance was offered an opportunity to practice upon trees of different ages and kinds under the supervision of one of the trained leaders. Records of these trees were kept and those will be able to check up on their own pruning and follow it up for the next two years. These pruning schools have been a great success and the enthusiasm created by them is an indication of what the three-year program will do for the Oregon fruit industry.

The second part of the program is to be a spraying and soil management series. Two days will be spent in each organized county, the first in orchards where manufacturers or dealers will demonstrate their own equipment in the forenoon and the fruit project committees, county agents, fruit inspectors and Oregon Agricultural college specialists will conduct demonstrations in the afternoon.

Other series of demonstrations, meetings, orchard tours and inspection trips will be scheduled throughout the season.

Growers to Organize Today.

EUGENE, Or., Feb. 20.—(Special.)—The wool and mohair growers of Lane county will meet at the chamber of commerce in this city tomorrow afternoon to organize a co-operative association. The plan of organizing will include employment of a specialist, whose business will be to supervise the assembling and grading of wool and mohair.

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