

Organized Districts and Modern Methods Needed to Clear Stump Land

BILL ASKS STATE TO AID CLEARING OF LAND BY BONDS

Land clearing, like many other matters, is becoming more and more a case of using the brains to lighten the work of the muscles. Grubbing has always been considered one of the hardest kinds of work, and rightly so. If anyone tries to intimidate that it is not hard work, it is a foregone conclusion they have not tried to take stumps out with mattock and muscles.

It has been said that necessity is the mother of invention, and surely there is need of some better means of taking out the stumps than by all hand work. It is estimated that there are 2,500,000 acres of logged-off land in Oregon and nearly the same in Washington, over half of which would be tillable if cleared. Hand clearing has been too expensive, and of late years it has been impossible to get hired help that would do this kind of work at any price. A few modern inventions are going to materially change the nature of the work, however.

LAND CLEARING IS COMPLEX
Land clearing, taken as a whole, is a complex problem. No one method will suffice for all conditions. Each tract offers a different problem, not only does the size and kind of stump, the length of time the timber has been cut, the amount of brush and other surface conditions make different methods necessary, but added to this is the great variety of soils, each of which add their share to make conditions for any one piece of land very greatly.

On a few kinds of stumps a combination of goats and plenty of time will effectively clear the land. The goats keep down all underbrush and sprouts. The stumps eventually rot out. It takes years to clear land in this way, and usually the land becomes so foul from scattering weeds that it takes some time to rid it of weed pests after it can be cultivated. A weed patch of this nature is likely to make enemies of neighbors who have had clean fields.

MACHINERY BEING USED
Modern machinery for land clearing includes many types of stump pullers, both hand and power machines. Donkey engines are used in places where clearing is done on a large scale. Only laying tractors are making a place for themselves in clearing, for they are useful in several ways; they pull small stumps directly, drag stumps into piles, and are very useful for leveling the land after it is cleared.

Stumping powder is very essential in all cases where stumps of any size are encountered. By using powder to split and loosen the large stumps, less power and time are required to remove them, and the stumps are in a much better condition to pile and burn. A derrick with line and grab hooks materially hastens the work of piling into well shaped heaps for burning.

SMALL OWNER HANDICAPPED
The owner of a small tract of land cannot afford to buy expensive machinery that is necessary to make land clearing economical, yet he cannot afford to use the old-fashioned methods that make the clearing so expensive. Large tracts of logged-off land are being held by companies only because home builders cannot be found that have the money with which to clear the land, and who would not have any means of making a livelihood if they moved on the land and

TRACK-LAYING TRACTOR CLEARS LAND



One of the modern machines that is making land clearing possible at less expense. The tractor is finding many uses.

used the old methods of clearing. The expense and time required to make lanes productive makes the settling of it by home builders prohibitive. The owner of a small piece of land cannot afford to hire expert machine men and expert powder men to do the work, yet this is where big savings may be made.

BILL WOULD PLEDGE AID
The organization of land clearing districts, much on the same order of irrigation and drainage districts, would make it possible to employ expert help and the best of modern machinery, besides providing a means of financing the entire scheme. To make the sale of the bonds of such a company a certainty, with as little expense as possible, it is necessary for the state to pledge its credit for the payment of interest on the bonds, much in the same way as it is doing in the other projects. A move toward this end is now developing in the form of senate bill No. 149, which was referred to the senate public lands committee January 25 and no action taken at the date of this writing.

Brewer Discusses Poultry Topics at Walla Walla Show

Walla Walla, Wash., Jan. 29.—Members of the Walla Walla Poultry association and exhibitors at the poultry show were given a series of instructive lectures the past week during the progress of the poultry show by H. Brewer, former poultry expert at the Oregon Agricultural college. Brewer's lectures covered the care and management of poultry, brooding, incubation and other important phases of poultry raising. Following each lecture the meeting was held open to questions from the chicken fanciers. Brewer answered all questions regarding immediate troubles which the poultrymen of this section are having.

More than 500 fancy fowls from all parts of the state were entered in the poultry show. Contests for prizes were held, there being a better quality of chickens exhibited this year than at any other show staged here since the local association was formed five years ago. The show closed Saturday.

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Beardless Rye Is in Demand New Mixtures for Livestock

When the Eastern Oregon farmers who had grown the strain of forty-fold wheat that had been selected and bred by the Union branch experiment station, offered their crop for market in 1919 they found that it commanded a premium of 20 cents a bushel. It was not only a higher yielder but a superior milling wheat. Similar pure-line selections are being made by the station from the red chaff club, another important wheat for the district.

The hybrid barleys produced by the station are grown extensively throughout the state, the demand for seed exceeding the supply.

Findings that a beardless rye was much in demand, especially for dry farms, the station began and is now conducting breeding work to produce the desired type. Plants apparently free of beards have been developed, but must be tested out more fully and multiplied for seed before being offered farmers.

TESTS BEING MADE
Smut resistance work is being conducted in cooperation with the federal department of agriculture and the central college station, to determine the smut resistance of numerous varieties of wheat.

Tests to determine the most successful varieties of barley, oats and wheat under plot and field conditions are under way. But the major work of the branch station under supervision of Robert Withycombe, superintendent, has been shifted from cereal and forage crops to livestock investigations.

In addition to the discovery that silage with alfalfa doubled the gains made by fattening steers without adding to the daily cost, the station found that chopping alfalfa hay added 28 per cent to its feeding value when fed alone, but only 14 per cent fed with grain and 7 per cent with silage.

DAILY GAIN SHOWN
Grain fed with alfalfa produced 30 per cent more gain than the hay alone. Meadows pasture gave a daily gain of a pound a day the first month, 2.39 the second, 2.31 the third and 7 the fourth. Steers finished on this pasture topped the market.

Lambs can be successfully fattened in the open, but shelter increased the gains enough to pay interest on sheds. Materials and methods of feeding economically were likewise developed and given to stockmen for their use.

The high cost of fattening hogs for show with high feed costs were shown in a fattening test with 80 head of hogs. The first 45 days the animals were fed hay, barley and tankage and allowed to run on alfalfa, and the cost of gain was 16 cents a pound. The remaining 60 days the hogs were fed common barley, clover and ground flaxseed and gave the gains cost 20 cents per pound.

SWEET CLOVER POPULAR
Protein test showed that tankage, soy beans, peas and cut alfalfa made creditable gains with rolled barley, and that coconut meal and ground flaxseed gave the poorest returns with the rolled barley.

Tests for yield of seed and forage of Canadian field peas, and of the peas in combination with bald barley, and with oats for silage, indicate that the pea may become an important forage crop in the Eastern Oregon.

Grimm alfalfa, first brought into this part of the state by the station, has proved to be more productive and productive than the common alfalfa.

Trials to determine the relative value of red and alsike clover and of yellow

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DEMONSTRATION FAPUS GIVE DATA

By H. E. Cosby
Extension Poultry Specialist
The farm bureau of 11 counties desired to carry on constructive work for the poultry interests of their counties by concentrating the efforts to a limited number of communities rather than by holding meetings irregularly over various sections of the country. Poultrymen and farmers in the various organized communities were chosen who agreed to allow their farms to be used as demonstration centers.

Each demonstration farm owner, assisted by the county agricultural agent, made a careful inventory of the total investment, equipment and stock on hand November 1, 1920. The owner keeps a careful record of every item of expense, income and hour of labor. On October 31, 1921, another inventory will be made, thereby giving data of a year's business. The extension poultry specialist of the Oregon Agricultural college, in cooperation with each county farm bureau, agrees to hold four public demonstrations on each demonstration farm during the year. Seasonable subjects are demonstrated and discussed, such as "Feeding for Eggs," November to January; "Incubation and Brooding," February to April; "Care and Feeding the Growing Stock," May to July, and "Culling the Flock," from August to October.

Where the interest of a community is directed toward commercial poultry keeping, a farm of that nature is chosen, but where the interest centers around a small flock as a side line industry on the general farm, that type is chosen.

All interested poultrymen are urged to attend the quarterly meetings and for the benefit of those interested in the work the name and address of each demonstration farm cooperator is given:

M. L. Walker, Monroe R. R. 1; F. R. Barnes, Corvallis, R. R. 2; Mrs. J. M. Akers, Corvallis, R. R. 1; Bird Rickard, Junction City, R. R. 4; Heard and Holland, Prosper, Harry Cook, Milwaukie, R. R. 1; Mrs. R. H. Howard, Oregon City; C. Bartley, Canbyville, Fred Foster, Murphy; Karl Hammerbacher, Grants Pass; A. F. Grable, Toledo; George H. Gilmore, Junction City, R. R. 4; Henry Yeoman, Creswell, R. R. 1; Oscar L. Dunlap, Junction City, R. R. 2; C. T. Shaw, Cottage Grove; Mrs. C. Chandler, Lebanon, R. R. 4; Clarence type, Placerville, R. R. 1; Miss Bertha J. Beck, Albany, R. R. 3; A. M. Smith, Corvallis, R. R. 2; Mrs. C. N. Taylor, Gresham, Or., R. R. 4; Anna L. Schell, Gresham, R. R. 4; A. L. Davies, Troutdale, Or., R. R. 1; Mrs. D. B. Seidel, Portland; Hoisington Brothers, Dallas, R. R. 1; W. J. Garner, Pais; C. C. Clapham, Forest Grove, R. R. 1; M. King, Forest Grove, R. R. 2; Edgar Clarke, Cedar Mills; L. J. Andrews, Sherwood, R. R. 4.

NEW CORN VARIETY
Sunflowers grown in variety and cultural tests will be used for silage with which to conduct feeding tests in comparison with other silage crops.

A corn variety that promises to succeed under the prevailing frost conditions has been found and will be further developed if proved profitable. Many varieties have been made public in which proved entirely satisfactory over a term of years. The crops are used in silage feeding tests.

The Eastern Oregon branch station has both land and equipment for conducting investigation work with livestock and crops. Some of its more recent findings have been made public in the new report of O. A. C. experiment and branch stations, prepared by James T. Jardine, director, and published for the benefit of Oregon farmers and other interested citizens.

O. A. C. MAN GETS AGRICULTURAL JOB

Oregon Agricultural College, Corvallis, Jan. 29.—William Douglas Pine, who will receive his B. S. degree in dairy husbandry next June has been appointed county agricultural agent for Tillamook county upon recommendation of Paul V. Maris, director of extension at the college. Pine is now devoting seven eighths of his time to teaching in the dairy department at the college, but goes to his new work at an attractive salary.

Pine attended O. A. C. in 1914-17, when he enlisted. He returned to complete his work in dairy husbandry. During his military service he had eight months' experience as navy butter inspector. This, along with his practical experience in Humboldt county, California, where as a boy he was raised on a dairy farm where 100 cows were milked, is said to fit him in a practical way for service in Oregon's leading dairy county. Pine is 26 and is a married man.

Wallace E. Niles, Grants Pass, and Merle Briggs, Cheney, Wash., are majoring in farm management, accompanied by Claire Wilkes, instructor in farm management, have just returned from a visit to Dayton, where they made a survey and study of the 270 acre farm of C. P. Moffitt, an O. A. C. graduate of military service. Reports of the officers are being prepared, which are to be installed by Moffitt upon approval by the department of farm management.

Farmers' Exchange System Securing Favorable Results
Morton, Jan. 29.—The annual meeting of the Eastern Lewis County Farmers' exchange was held recently, with a good crowd present. Reports of the officers were read and a number of amendments voted upon. Trustees were elected for the coming year.

Officers of the exchange state that a most excellent showing has been made during the past few months. The matter of discontinuing the retail end of the business came up before the meeting and it was decided to continue into the marketing end, for which purpose the exchange was originally formed.

"We recognize the mistakes have been made in the methods pursued in carrying on the business, but it is believed that the business is now being carried on honestly and in a safe and sane manner, and that in the future the errors of the past can and will be avoided. It is the general consensus of opinion that the existence of the farmers' exchange has been of great value in eastern Lewis county, and with the experience of the past to guide its new officers, that it will be made of very much greater use in the future," was the statement given out.

The farmers' exchange was the first to be organized in the state under the farm marketing law, fathered by Senator Ralph Metcalf of Tacoma.

Take Stock East in Truck
An article appeared in a recent issue of the Oregon Countryman, a paper published in Missouri, telling of the bringing into that state of some of Oregon's fine Jerseys. C. A. Parsons and son of Howell county, Missouri, shipped up a one-ton truck and hauled their foundation herd of Oregon bred Jerseys from Neskevin, Or., to Pomona, Mo., in 47 days and rested the stock 19 days out of this time. The stock arrived at its new home in good condition. The fame of Oregon Jerseys has spread far.

Lane Jersey Men Meet in Eugene
Eugene, Jan. 29.—An encouraging prospect for the future of the Jersey cattle industry was shown in the annual meeting of the Lane County Jersey Breeders' association, held in this city Thursday afternoon. There are now about 25 members in the association, including all the leading breeders, and there are about 200 purebred Jerseys in the county. Reports showed that there has been gratifying progress in building up purebred herds, and that the returns to the breeders have been excellent. Some of the finest production records of the valley were shown. C. A. Swartz of Springfield was elected president; T. E. Green of Coburg, vice president; F. E. Taylor of Thurston, secretary.

Aged Cow Good Producer
Moscow, Idaho, Jan. 29.—Golden Hero's Queenie Lass, an aged Guernsey owned by Henry Stickle of Buhl, Idaho, has just completed a year's official record during which time she produced 13,455.8 pounds of milk, 714.99 pounds of butter fat or 833.74 pounds of 80 per cent butter. The record is one of the largest ever made in the Northwest by a Guernsey.

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New Land Clearing Device to Be Tested

Oregon Agricultural College, Corvallis, Jan. 29.—A machine which is expected to revolutionize land clearing, the work of an Oregon man, is to be given several test trials on the college demonstration farm near Roseburg. The new invention which is manufactured in Portland is practically the only one of its kind to have promise of commercial success, according to college authorities. A puller of this type, run by a gasoline engine, has been obtained by Professor H. D. Scudder, chief in farm management, and if it proves satisfactory rigid cost trials, it will be adopted on many projects in the Roseburg district.

Professor Scudder has just returned to the college from a trip to Coos Bay, where he made a survey of the land settlement situation with reference to locating a demonstration farm for the state land settlement commission, of which he is general superintendent.

Prune Talk at Hermiston
Hermiston, Or., Jan. 29.—Professor Long of the O. A. C. extension service will be in Hermiston on Friday, February 11, and will give a practical demonstration on pruning in one of the orchards near town. It will be in the field for the same purpose on February 19.

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