

HOW TO RAISE ALFALFA.

From one thoroughly posted and experienced in the line of growing alfalfa without irrigation. The PLAINDEALER has been able to secure the following comprehensive article on the subject which beyond doubt will be of more than passing interest to large numbers of our readers.

To Prepare Land

Select a plot that has been in cultivation for a year or more, preferably one that has been cultivated and kept free from weeds this season. Plow deep in fall or winter. Harrow down well every day what you have plowed. Do not be afraid of getting the land too well harrowed. It should be made free from lumps before you leave it. Just before seeding in the spring (May is the best month for seeding) thoroughly harrow the land. Use an adjustable harrow and set the teeth slanting back so that they will only pulverize the top soil to the depth of about an inch. Do this harrowing thoroughly; it is important.

Seeding Alfalfa.

If you have, or can get, a presser wheel shoe drill use it for sowing the seed. Hook it up so the shoes will not cut over one inch in depth just to deposit the seed on the moist settled soil immediately under that tined by the harrowing. Set the drill as nearly as you can, to 15 lbs. to the acre. If you use the presser drill set in this way the seed will sprout and come up regardless of rain. If a drill is not available sow broadcast by hand or with a grain seeder about 20 or 22 lbs. of seed per acre. Go over the land with the tooth harrow with teeth set back quite flat. Then follow with heavy plank drag to level down the ground and insure the light covering of the seed. If sown in this manner not all the seed will sprout until after a rain and a part will be apt to be in too deep hence the need of more seed than for the drill method.

Alfalfa seed germinates quickly under favorable conditions. I have had it show on top of ground 18 hours after sowing. The seed itself comes to top of ground parting as does a bean. If it is covered too deep, or by a lump, it will not push itself up. Neither will it break through a dry crust surface. Hence if a hard rain should come, followed by dry windy days, crusting the top of the soil, it is best to go over the land again with harrow set to just break the crust. I use a Hallact Weeder for this purpose.

Treatment the First Season.

Do not let the plant seed at all the first year. Clip it off with the mower soon after the blossoms begin to show. Let the cut stuff lie on the ground. It may be a short growth but if you can set the mower low enough to cut it clip it off. Do this three or four times in the season. It is necessary in order to make the plant form a good crown and a stout long root. The more alfalfa is cut the better it will grow. After it gets eight or ten inches high, the first year, it will more than double the amount of stalks by clipping, while, if not cut, it will develop a scanty growth and probably die.

Don't get discouraged if you should not get much of a crop the second year. Remember that it takes about three seasons before it will get to its best, where it cannot be irrigated. But after that it is good for years, only disc it over once every year or two with the discs set so as not to turn up much soil, only cut in and mellow up the top.

The above if followed, will practically insure a stand of alfalfa. I have never yet failed of getting a good setting since I have followed this method.

About the Seed.

For this country be sure you get seed that has been raised from non-irrigated alfalfa. It will make a harder growth than that from irrigated lands. Most of Kansas raised seed is from non-irrigation alfalfa.

If you keep this until sometime when you want to sow alfalfa the knowledge of how to do it successfully will not cost you as much as it has cost me to learn it.

RADIUM.

Radium, the discovery of which has aroused—and wellnigh confused—the whole scientific world, is a substance of such marvelous properties that it promises to revolutionize many long accredited scientific facts. The metal was discovered by Prof. and Madame Curie, of Paris, after a series of long and complicated experiments. It is a substance of such value and rarity that it is worth slightly less than \$1,000,000 a pound, and there are at present exists but little over two pounds of radium in the entire world. It is impossible for the unscientific mind to comprehend the wonderful properties of this metal. Chief among these is its so-called radi-activity. By this is meant that it ceaselessly emits

rays like light which act on photographic plates, and possess a penetrating power similar to x-rays, but far more powerful. So intensely potent is this substance that the smallest particle will produce a burn upon the skin, and a half a kilogram in a bottle would kill a roomfull of people. Besides this, it emits "electrons" with such velocity that one gram could lift a whole fleet of war vessels. And the wonder of it is that the radiation is continuous, without diminishing the supply and without apparent connection with any source. It is reported that small quantities of radium have lately been found in Colorado. Bohemia has supplied most of the radium used thus far in the wonderful experiments made with the substance; but some of the supply has come from Saxony, and from Cornwall, England. As it may exist in Oregon or other of the Pacific coast states it is important to know something of its peculiar properties.

There is something mysterious about the total disappearance of the three mining men, Dickens, Snyder and Kirk, in Jackson county. All within a short time and in the same neighborhood, without any probable cause or reason, they have simply vanished from mortal sight. Grave creek, where the mishaps have occurred, has been properly named. Luckily, the old bugbear of the past, our friend the Devil, being dead, has been eliminated from the problem, and cannot reasonably be charged with these mysterious disappearances.

Sylvester Johnson, for eleven years president of the Indiana State Horticultural Society, at a meeting of that society, held at Indianapolis, said: "I regard Oregon as pre-eminently the fruit state of the Union, and its fruits better than those of California. This exhibit forever dispels the opinion that California possesses superior advantages for fruit-growing to that of every other region on the Pacific slope. The Oregon exhibit of apples, pears and plums was not only unequalled, but it excelled that of every other state. The fact may be noted that the largest apple, the largest pear, and the largest cherries exhibited at the Columbian exposition were grown in Oregon."

Reward.

Douglas County will pay a reward of \$150 for the discovery of Herman Snyder's body. Snyder is supposed to have been murdered in the vicinity of Coffee creek, in this county, about three months ago.

Great Exposition and Carnival at Portland.

"The Merchants and Manufacturers Exposition will be held at Portland, September 14th to 26th, inclusive.

For this occasion the Southern Pacific Company will sell tickets to Portland and return, including coupon of admission at a rate of \$8.00 from Roseburg. Sale dates September 15th, 18th, 22nd, and 25th.

Tickets sold at stations south of the Fair Grounds will allow stop-overs at that point, enabling holders to visit the Oregon State Fair.

The Exposition will be held on Multnomah Club Grounds and adjacent streets, and in addition to exhibits by merchants and manufacturers, Jabours Circus, with its many attractions, has been secured.

A special feature will be the Grand Spectacular Ballet, "When-Knighthood was in Flower," by sixty trained dancers in gorgeous costumes, prepared for the occasion." 69-24.

WANTED!!

Fifty laborers at Ray's Dam, near Tolo, Ore.; Wages, \$2.50 per day for first-class men. DR. C. R. RAY, Tolo, Ore.

ONE DOLLAR PREMIUM..

The Roseburg Junk and Hide Co. Will pay a premium of \$1 in addition to the regular price of \$10 on each ton of cast iron—this offer to hold good until October 1st.

We Also Want

Hides, Furs, Brass, Copper, Lead, Zinc, Rubber and Second Hand Furniture
ROSEBURG JUNK & HIDE CO.
Cor. Oak and Rose Sts., Opp. Bernard's Stables

LADIES TAKE A LOOK

Skirts-- We carry the Finest Line of Made-up Skirts in town, and our line of Underskirts cannot be equaled for quality and price

Our Spring and Summer Line of Clothing Embodies many special features that will interest you. The clothing that we sell from the Highest to the Lowest grade is in every case finely tailored and thoroughly dependable. We recommend it with confidence even though our prices are lower than any other store sell for the same quality. Also a new and up-to-date line of Ladies' and Gent's Neckwear.

OUR SHOES SPEAK FOR THEMSELVES. Sole Agents for the W. L. Douglas Shoe

The People's Store

I. ABRAHAM Proprietor.

One Door South of P. O.

Notice for Publication.

U. S. Land Office, Roseburg, Ore., June 25th, 1903.
Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon Nevada, and Washington Territory," as extended to all the public land states by act of August 4, 1892.

Oscar Peterson, of Spokane, county of Spokane, state of Washington, has this day filed in this office his sworn statement No. 542, for the purchase of the NE 1/4 of section No. 8, township 28 south, of range 8 west.

and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim before the Register and Receiver of this office of Roseburg, Oregon.

on Wednesday, the 11th day of November, 1903.

He names as witnesses: Andrew S. Erickson, of Plandrou, South Dakota, J. W. Gardner, W. H. Metrossen, and Geo. Taylor, all of Roseburg, Oregon.

Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 11th day of November, 1903.

J. T. BRIDGES, Register.

Notice for Publication.

U. S. Land Office, Roseburg, Ore., June 25, 1903.
Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon Nevada, and Washington Territory," as extended to all the public land states by act of August 4, 1892.

Archibald E. Wadge, of Wales, county of Cavalier, state of North Dakota, has this day filed in this office his sworn statement No. 543, for the purchase of the NW 1/4 of section No. 4, township 28 south, of range 8 west.

and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim before the Register and Receiver of this office of Roseburg, Oregon.

on Thursday, the 19th day of November, 1903.

He names as witnesses: Thomas Wadge, O. E. Lofthus, both of Park River, N. Dakota, Brynjolf Prom, of Milton, N. Dakota, and Rasmus E. Stone, of Alexandria, Minn.

Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 19th day of November, 1903.

J. T. BRIDGES, Register.

Notice for Publication.

UNITED STATES LAND OFFICE, Roseburg Oregon, June 25, 1903.
Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon Nevada, and Washington Territory," as extended to all the public land states by act of August 4, 1892.

BRYNJOLF PROM, of Milton, county of Cavalier, state of North Dakota, has this day filed in this office his sworn statement No. 546, for the purchase of the NE 1/4 of sec. No. 4, T. 28, south of range 8 west.

and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim before the Register and Receiver of this office of Roseburg, Oregon.

on Friday, the 18th day of December, 1903. He names as witnesses: Thomas Wadge, of Park River, North Dakota, Archibald E. Wadge, Wales, North Dakota, Rasmus M. Stone, Alexandria, Minnesota, Brynjolf Prom, of Milton, North Dakota.

Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 18th day of December, 1903.

J. T. BRIDGES, Register.

Notice for Publication.

UNITED STATES LAND OFFICE, Roseburg, Ore., June 25, 1903.
Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon Nevada, and Washington Territory," as extended to all the public land states by act of August 4, 1892.

OLE E. LOFTHUS, of Park River, county of Walsh, state of North Dakota, has this day filed in this office his sworn statement No. 547, for the purchase of the NE 1/4 of section No. 10, township 28, south of range 8 west.

and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim before the Register and Receiver of this office of Roseburg, Oregon.

on Thursday, the 19th day of November, 1903. He names as witnesses: Thomas Wadge, of Park River, North Dakota, Archibald E. Wadge, Wales, North Dakota, Rasmus M. Stone, Alexandria, Minnesota, Brynjolf Prom, of Milton, North Dakota.

Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 19th day of November, 1903.

J. T. BRIDGES, Register.

For Sale.

One good horse cheap, H. L. Gould, the blacksmith. 70-1f.

AND IF OUR SPRING and SUMMER Line is not better than any other, don't buy from us. We are showing this season the

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Silk Gause Novelties, Soie Jouree, Silk Zephyr, Corded Chambray, Lawn Caladine Novelties, Fancy Madrass Organdies, Lawn Sinaloa Novelties, Minerva Dimities, Leno Applique Lawn, Afton Dimity, Blouse Linens, Organdies, Linen Batiste, Challes, Sursucker Gingham, Percale

AND ALL THE LATEST IN DRESS GOODS

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HILDEBRAND'S Foot-Form Shoes

Are as good as years of experience and the best of material can make them.

We have always devoted particular pains to them. They have been our special hobby. We have always tried to make and we believe we have succeeded in making Hildebrand's Foot-Form Shoes the best ever made at a popular price.

\$2.50 to \$5.00 per Pair.

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Hildebrand's 'NUF' CED