

## Starting Alfalfa Without Irrigation

Farmers who have tried alfalfa out on the plains of Eastern Colorado have done very well with it but they find that even when rainfall is plentiful alfalfa will get a much better start and give satisfactory yields much quicker if a cultivated crop is raised to prepare the soil. If the cultivated crop cannot be grown it will pay to summer fallow under the Campbell system, the object being to germinate and kill all weed seeds in the surface soil, retain moisture and put the land into good physical condition. In the early spring after summer fallowing or growing the cultivated crop the land should be thoroughly cultivated and put in the best possible tilth.

Too much preparation of the seed bed cannot be given. As soon as danger of killing frost is over, the soil should be cultivated again to kill the weeds and the seed sown immediately. Repeated trials throughout the country have demonstrated that it is a waste of time and seed to sow alfalfa with a nurse crop. The grain shades the alfalfa too much and robs it of the moisture necessary to carry it through the first summer. Ten to fifteen pounds of good seed to the acre is generally sufficient. It is usually sown broadcast and covered with a common tooth harrow.

Perhaps the most satisfactory and economical way to sow it is with a common grain drill with a grass attachment. For this purpose seeders should be used that have tubes that carry the seed into the hole or beside the discs of the drill. In dry localities where there is little or no danger of crusts forming on the surface the drill should be set to cover the seed from one and one-half to two inches deep. In most localities the seed should not be covered so deeply. When all of the seed is covered the proper depth in this way much less is required than when sown broadcast.

When the alfalfa is one year old it should be disked in the early spring as soon as the ground is in good working condition. The harrow should be set straight enough to prevent cutting off the roots of the alfalfa. It should be weighted to make it cut the desired depth. The worker must use his own judgment as to weighting the harrow, the angle at which to set the discs and the amount of harrowing to be done. A tooth harrow should follow the disc to smooth and pulverize the soil.

It may be given the same treatment just after removing a hay crop or at any time when it has made but little growth. As the stand becomes older and the roots larger the disc harrow may be set to run deeper. As it is well established the more cultivation the better. This method of growing alfalfa requires some time and expense, but paying returns will be obtained so much quicker and the alfalfa will last so much longer if sown and cared for in this way that the extra work is justified.

## When Oregon Had Camels

That the whole of interior Oregon was once the bed of the Pacific ocean has been proved beyond question by the investigations of Professor Thomas Condon, Dr. Diller and other noted geologists. That the region was later a tropical country has been equally well established.

Numerous discoveries of the bones of animals and rocks containing the perfect imprint of the plants of the tropics have been made, and it is no longer an occasion for surprise when well diggers or irrigation excavators unearth the fossil remains of a camel or a broad faced ox.

Within recent years many fossil beds of beautiful palm leaves have been found in eastern Oregon.

The Cascade hills, Blue mountains and Owyhees, once islands surrounded by tropical lakes, were covered with luxuriant growth,

## Stomach Troubles and Constipation

"Chamberlain's Stomach and Liver Tablets are the best thing for stomach troubles and constipation I have ever sold," says J. R. Cullman, a druggist of Pottsville, Mich. "They are easy to take and always give satisfaction. I tell my customers to try them and if not satisfactory to come back and get their money, but have never had a complaint." For sale by D. P. Adamson.

forests and flowering shrubs, for Knowlton tells us the magnolia and cinnamon and fig trees were there.

Today the soil presents a finely ground mixture of basalt and volcanic ash, containing the elements of most fertile soil, and when properly watered producing enormous crops of vegetables, fruits and grains common to temperate zones.

The climate has been changed, says Professor Condon, by the up-folding of the Cascade range, shutting off from the interior the softening influence of the Japan current and the drift of ocean fogs and clouds.—Sunset Magazine.

## Use of the Divining Rod

Numerous devices are used throughout this country for detecting the presence of underground water—devices ranging in complexity from the forked branch of witch-hazel, peach, or other wood, to more or less elaborate mechanical or electrical contrivances. Many of the operators of these devices, especially those that use the home-cut forked branch, are perfectly honest in the belief that the working of the rod is influenced by agencies—usually regarded as electric currents following underground streams of water—that are entirely independent of their own own bodies, and many uneducated people have implicit faith in their ability to locate underground water in this way.

In experiments with a rod of this type, one of the geologists of the United States Geological Survey found that at points it turned downward independently of his will, but more complete tests showed that the downturning resulted from slight and until watched for—unconscious changes in the inclination of his body, the effects of which were communicated through the arms and wrists to the rod. No movement of the rod from causes outside the body could be detected, and it soon became obvious that the view held by other men of science is correct—that the operation of the "divining rod" is generally due to unconscious movements of the body or of the muscles of the hand. The experiments made show that these movements happen most frequently at places where the operator's experience has led him to believe that water may be found. The uselessness of the divining rod is indicated by the facts that the rod may be worked at will by the operator, that he fails to detect strong currents of water running in tunnels and other channels that afford no surface indications of water, and that his locations in limestone regions where water flows in well-defined channels are rarely more successful than those dependent on mere guesses. In fact its operators are successful only in regions in which ground water occurs in a definite sheet in porous material or in more or less clayey deposits, such as the pebbly clay or till in which, although a few failures occur, wells would get water anywhere.

Ground water occurs under certain definite conditions, and as in humid regions a stream may be predicted wherever a valley is known, so one familiar with rocks and ground-water conditions may predict places where ground water can be found. No appliance, either electrical or mechanical, has yet been successfully used for detecting water in places where plain common sense or mere guessing would not have shown its presence just as well. The only advantage of employing a "water-witch" as the operator of the divining rod is sometimes called, is that skilled services are obtained, most men so employed being keener and better observers of the occurrence and movements of ground water than the average person.

Advertising Bills Easy to Pay

Many a business man has been surprised to find that his biggest advertising bills were the easiest ones to pay.

This is always true, assuming they are contracted in buying advertising space in the best newspaper medium in his field. It would, of course, never be true if poor judgment were used in the planning and executing of the advertising campaign.

In the cases of prosperous merchants it always happens that big

advertising bills and big bank balances grow, together, out of the same publicity campaigns. Non-prosperous merchants—and half-prosperous ones—may prove the truth of this matter in a practical way, and in their own experiences.

We are accustomed to seeing big stores filled with customers all the time—the direct result of big advertising expenditures. But we do not so often see the small stores and shops crowded. Too many of them are content to get the "overflow" patronage, the "happened-in" people, the people who go to "the nearest place."

Any "little store" whose advertising expenditures, for newspaper space, are doubled this year, will find its sales and profits correspondingly increased. Even a small increase of expenditure, in the right direction, for publicity, will bring a notable quickening of store activity, store profits.

Effective, adequate advertising not only pays for itself—it pays for increased equipment and all that goes with a bigger store and growing store needs.—Erie Times

## FROM THE ANTILLES

Chamberlain's Cough Remedy Benefits a City Councilman at Kingston, Jamaica

Mr. W. O'Reilly Fogarty, who is a member of the City Council at Kingston, Jamaica, West Indies, writes as follows: "One bottle of Chamberlain's Cough Remedy had good effect on a cough that was giving me trouble and I think I should have been more quickly relieved if I had continued the remedy. That it was beneficial and quick in relieving me there is no doubt and it is my intention to obtain another bottle." For sale by P. A. Adamson.

## Wanted

One second-hand writing desk with roll top. Address Journal Office. Im

One Thousand Pages  
**The World**  
Twenty-Fifth Anniversary Number  
1908  
**Scientific American**  
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60 YEARS' EXPERIENCE  
**PATENTS**  
TRADE MARKS  
DESIGNS &c.  
COPYRIGHTS &c.  
A hand-drawn sketch and description may quickly ascertain our opinion free whether an invention is probably patentable. Communications strictly confidential. **MUNN & CO.** Patent Attorneys, 351 Broadway, New York

Notice For Publication  
Department of the Interior,  
Land Office at The Dalles, Ore.,  
January 8, 1908.

Notice is hereby given that Ida M. Anderson, of Prineville, county of Crook, State of Oregon, has applied to purchase, under the act of Congress of June 3, 1878, as extended by act of August 4, 1892, the S½ SW¼ and W½ SW¼, Section 10, T. 15 S., R. 18 E., W. M., 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 her claim to said land before the county clerk at Prineville, Oregon, on the 13th day of April, 1908.

She names as her witnesses: Charles M. Charlton, Lark Elliott, Harry C. Chase, and James S. Smith all of Prineville, Oregon.

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 13th day of April, 1908.

1-16p C. W. MOORE, Register.

Timber Land, Act June 3, 1878.

Notice for Publication  
United States Land Office,  
The Dalles, Oregon, November 12, 1907.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, as extended by act of August 4, 1892, the S½ SW¼ and W½ SW¼, Section 10, T. 15 S., R. 18 E., W. M., 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 her claim to said land before the county clerk at Prineville, Oregon, on the 13th day of April, 1908.

She names as her witnesses: Charles M. Charlton, John W. Ritter, Perry B. Poinsett, and Samuel A. Prose, all of Prineville, Oregon.

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 13th day of April, 1908.

1-16 C. W. MOORE, Register.

**Royal Insurance Co.**  
Not Welchers.  
Paid dollar for dollar in the Frisco conflagration.  
J. E. STEWART, Agt.

**The City Meat Market**  
HORIGAN & STILL, Profs.  
Headquarters for  
**Home - Cured Lard and Bacon**  
Try some of Crook county's choicest products. Its the best that money can buy. You will not only save money but you will help build up a home industry. We always carry the best in  
**Beef, Pork, Mutton, Veal.**  
Special rates when sold in large quantities  
We handle all kinds of country produce  
**HORIGAN & STILL**

Timber Land, Act June 3, 1878.

Notice for Publication  
Department of the Interior,  
United States Land Office,  
The Dalles, Ore., December 9, 1907.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, as extended by act of August 4, 1892, the W½ NW¼, N½ SW¼, Sec. 28 Tp. 15 south, range 18 east W. M., 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 her claim to said land before the county clerk at Prineville, Ore., on the 13th day of February, 1908.

She names as witnesses: Charles Feurhelm and James Faught of Prineville, Oregon.

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 13th day of February, 1908.

12-12 C. W. MOORE, Register.

State Selection  
Notice for Publication  
U. S. Land Office, The Dalles, Oregon,  
November 26, 1907.

Notice is hereby given that under the provisions of the act of Congress of August 14, 1898, and the acts supplementary and amendatory thereto, the State of Oregon has this day filed in this office its application, No. 491, to select the S½ of the SW¼ of Sec. 31, T. 17 south, range 16 east, W. M.

Any and all persons claiming adversely any of the above-described lands, or desiring for any reason to object to the final allowance of the same, should file their claims or objections in this office on or before the 16th of January, 1908.

11-28-3w C. W. MOORE, Register.

Notice for Publication  
Department of the Interior,  
Land Office at The Dalles, Oregon,  
December 7, 1907.

Notice is hereby given that Mary E. Vanderpool, guardian of John B. Vanderpool, insane, of Prineville, Oregon, has filed notice of her intention to make final five-year proof in support of her claim, viz: Homestead Entry No. 11224 made Dec. 19, 1902, for the Lot 1, NE¼ NW¼ and N½ NE¼ of Sec. 29, Tp. 14 south, range 16 east, W. M., and that said proof will be made before the County Clerk, at Prineville, Oregon, on January 23, 1908.

She names the following witnesses to prove her continuous residence upon, and cultivation of, the land, viz: J. W. Elliott, Samuel J. Newsum, and Julia McDaniel, all of Prineville, Oregon, and George S. Miller, of Lamona, Oregon.

12-17 C. W. MOORE, Register.

Sheriff's Sale

In the Circuit Court of The State of Oregon for Crook County.

Plaintiff, vs. George W. Whitsett and Maggie Whitsett, Defendants.

By virtue of an execution and order of sale issued out of the above entitled court, on the 11th day of December, 1907, in favor of G. M. Cornett, Plaintiff, against George W. Whitsett and Maggie Whitsett, Defendants, for the sum of \$1000.00 judgment with interest thereon from the 11th day of September, 1906, at the rate of 10 per cent per annum and \$100.00 attorneys fees and the further sum of \$14.50 costs. And whereas it was further ordered and decreed that said property to-wit: Lot No. 9, in block No. 10, of Bend, Crook county, Oregon, be sold by the Sheriff of said county as under execution.

Notice is hereby given that in obedience to said execution and order of sale, I will on Saturday, the 18th day of January, 1908, at the hour of one o'clock p. m. of said day at the court house door in the city of Prineville, Crook county, Oregon, sell said above described real property at public auction to the highest bidder for cash, to satisfy said judgment, attorneys fees and costs and accruing costs.

Dated this 18th day of December, 1907.  
FRANK ELKINS, Sheriff,  
Crook County, Oregon.

Timber Land, Act June 3, 1878.

Notice for Publication  
United States Land Office,  
The Dalles, Oregon, November 12, 1907.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, as extended by act of August 4, 1892, the S½ SW¼ and W½ SW¼, Section 10, T. 15 S., R. 18 E., W. M., 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 her claim to said land before the county clerk at Prineville, Oregon, on the 13th day of April, 1908.

She names as witnesses: W. H. Hudson, John W. Collins, L. B. LaFollette, and Walter O'Neil all of Prineville, Oregon.

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 13th day of April, 1908.

12-24p C. W. MOORE, Register.

Notice to Creditors

Notice is hereby given by the undersigned, the administrator of the estate of Andrew J. Finnegan, deceased, to all persons having claims against said deceased to present the same with the proper vouchers to the undersigned at his office in Prineville, Oregon, within six months from the first publication of this notice.

Dated the 21 day of January, 1908.  
M. R. ELLIOTT,  
Administrator of the estate of Andrew J. Finnegan, Deceased.

House and lot for sale cheap.  
Call on J. W. Horigan or D. F. Stewart.

Timber Land, Act June 3, 1878

Notice for Publication  
United States Land Office,  
The Dalles, Ore., September 21st, 1907.

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,

Rachel L. Noland, of Portland, county of Multnomah, State of Oregon, has this day filed in this office her sworn statement, No. 4333, for the purchase of the SE¼ NE¼ of Sec. 9, SW¼ SW¼, and SW¼ NE¼ of Sec. 10, in Tp. 13 south, range 15 east, W. M., 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 her claim to said land before the County Clerk, at Prineville, Oregon, on the 13th day of January, 1908.

She names as witnesses: Charles M. Charlton, L. E. Hudson, of Prineville, Oregon, Ella A. Kenyon, Cecil Kenyon, of Redmond, Oregon.

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 13th day of January, 1908.

10-31p C. W. MOORE, Register.

State Selection, Notice for Publication  
United States Land Office,  
The Dalles, Oregon, December 13, 1907.

Notice is hereby given that under the provisions of the act of Congress of August 14, 1898, and the acts supplementary and amendatory thereto, the State of Oregon has this day filed in this office its application, No. 492, to select the W½ NW¼ of Section 12, T. 15 south, range 17 east, W. M.

Any and all persons claiming adversely the above-described land, or desiring for any reason to object to the final allowance of the selection, should file their claims or objections in this office on or before the 16th day of February, 1908.

10-31p C. W. MOORE, Register.

Notice for Publication  
Department of the Interior,  
Land Office at The Dalles, Oregon,  
December 7, 1907.

Notice is hereby given that Mary E. Vanderpool, of Prineville, Oregon, has filed notice of her intention to make final five-year proof in support of her claim, viz: Homestead Entry No. 11225 made December 19, 1902, for the S½ NE¼, SE¼ NW¼ and Lot 2 of Sec. 30, Tp. 14 south, range 16 east, W. M., and that said proof will be before the County Clerk, at Prineville, Oregon, on January 23, 1908.

She names the following witnesses to prove her continuous residence upon, and cultivation of, the land, viz: J. W. Elliott, Samuel J. Newsum, Julia McDaniel, all of Prineville, Oregon, and George S. Miller, of Lamona, Oregon.

12-12 C. W. MOORE, Register.

Sheriff's Sale

In the Circuit Court of The State of Oregon for Crook County.

Annie Maling, Plaintiff, vs. Fred Claypool, O. C. Claypool, Daisy Claypool, Theodosia Claypool and R. L. Sabin, Defendants.

By virtue of an execution and order of sale, issued out of the above entitled court, on the 16th day of December, 1907, in favor of Annie Maling, plaintiff, against Fred Claypool, O. C. Claypool, Daisy Claypool, Theodosia Claypool and R. L. Sabin, Defendants, for the sum of \$4297.55 judgment, with interest thereon from the 4th day of December, 1905, at the rate of 10 per cent per annum, and the further sum of \$100.00 attorneys fees, and whereas it was further ordered and decreed by the Court that the following described mortgaged property to-wit: Lot 6 in block 22, Monroe Holmes plat of Prineville, Oregon, warehouse, wagon house bought of J. F. Morris situated on the Foster lot, all bedrooms and beds and bedroom furniture in the brick store of Plaintiff's, and all the fixtures and shelving in the above mentioned store purchased from said J. F. Morris, all of said personal property being situated at Prineville, Oregon, be sold by the sheriff of said county, as under execution.

Notice is hereby given, that in obedience to said execution and order of sale, I will on Saturday, the 1st day of February, 1908, at the hour of one o'clock p. m. of said day at the court house door in the city of Prineville, Crook county, Oregon, sell said above described property at public auction to the highest bidder for cash in hand, to satisfy said judgment and interest and attorneys fees and costs.

Dated this 18th day of December, 1907.  
FRANK ELKINS, Sheriff,  
Crook County, Oregon.

Notice for Publication  
Department of the Interior,  
Land Office at The Dalles, Oregon,  
December 7, 1907.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, as extended by act of August 4, 1892, the S½ SW¼ and W½ SW¼, Section 10, T. 15 S., R. 18 E., W. M., 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 her claim to said land before the county clerk at Prineville, Oregon, on the 13th day of April, 1908.

She names as witnesses: Lewis V. Flee, Harry Barnes, Norris Morgan and Edward Parker, all of Crook, Oregon.

12-12p C. W. MOORE, Register.

**Hats, Shoes and Clothing**  
A complete line of Gent's Furnishings at Prices that you can afford to pay. Call in and let us show you the goods and quote you our prices.  
A Choice Line of Cigars & Tobaccos  
**THE OWL CASH STORE**  
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**Long & Snoderly**  
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MILLER BUILDING, PRINEVILLE, OREGON  
First Class Meals 25c and Up  
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Shingles, Mouldings, Windows, Doors, Glasses, Etc. Etc., Etc.  
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