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THURSDAY

August 9, 1906

A NEW DEPARTMENT:

Believing that a certain amount of theoretical knowl edge is of advantage in the application of even the most practical ideas in farming, and knowing that the most scientific methods, arrived at only after years of experiment by the government and by our great agricultural colleges, musi be applied in order to obtain in the semi-arid regions of the West, we have decided to de vote a good portion of our space to the dissemination of such information as we think will be of interest to those of our readers who are engaged in agricultural pursuits. column will be open for the discussion of all subjects of interest to farmers, and we shall be glad to publish any contributions which in our opinion will be of common interest. This new department will be discontinued when we find that it is not of interest to those for whose benefit it is published.

The department is inaugurated in this issue by the publication of excerpts from an address issued as a bulletin by the U.S. Department of Agriculture on the subject of the "Fertility of the Soil."

WELL ON LITTLE PLAINS A SURPRISE

Find Will Encourage Other Ranchers To Prospect-Wells Are As Valuable As Gold Mines.

owns a homestead on the Little Plains east of Round Butte, has struck water at a depth of only ten feet, in the well which she is having sunk on her place For the present there is not enough water for all household purposes, but Mrs. Barton expects to sink the well deeper immediately after harvest. At present only a bucketful or so of water runs into the well during the night, but even this amount at the depth at which is was found, is taken as a sure indication that more water will be found at a greater depth. the best results from farming The place where the well was sunk and the water found was located for Mrs. Barton by her son-in-law, James Hatthorne, and his success in this instance will doubtless bring him considerable local fame as a "water-witch."

Mrs. Barton's success in lo cating water on her place has greatly encouraged her neighbors, others of whom were contemplating sinking for water. It was supposed that in that locality water could not be found at a depth of less than from one to three hundred feet, but from the manner in which the water runs into the Barton well, it is believed that a plentiful supply can be had by sinking only a few feet more.

Mrs. John McTaggart and her two children have been visiting at the Parrish home near Haycreek, during the week.

The Fertility of the Soil

An interesting Address Printed as a Farmer's Bulletin by the United States Department of Agriculture at Washington.

has recently issued a bulletin on the subject of soil fertility. It is in reality an addresse given before a farmer's club in Maryland, in which an endeavor was made to place in the hands of the practical farmer the results of recent investigations of this important problem. The bulletin is highly interesting but is too long to be reprinted in its entirety, for which reason only those portions most pertinent to this locality are selected for for publication. Other excerpts will tollow in later issues. The selected excerpts follow:

Fertility and crop production are different terms Fertility is a property inherent in the soil; it is what the soil is capable of doing if it is under the best possible conditions. The yield of crops on the other hand, is not dependent upon the fertility alone. Several of you can take the same soil and get different yields, although you are working with a soil having the same fertility. If your seed is not properly selected, if your planting season is too early or too late; if the soil is not properly cultivated, if the climatic conditions are not favorable, your crop yield may be affected, but power of the soil under the best condi- tion, but that the person suffers before D P. Rea, U.S. Commissioner, tions to produce a crop-will not nec- because there are gaseous emanations essarily be impaired. So I am going from the lungs that are deleterious to to speak to you now, not of crop human beings. The plant is exceedyields, but of the fertility of the soil, ingly sensitive to gases. On the the power that resides in the soil under proper conditions to produce a satisfactory crop. I am not going to leaks in gas pipes: every year hundiscuss to any great extent the texture dreds and perhaps thousands of trees of the soil, which determines so large- have to be removed, and the usual ly the kind of crop you should grow, cause is a leaking gas pipe. The or even the important methods of amount of gas is so small that it cancultivation, which control the yield not be detected by the odor, but the and even affect fertility, as it would influence of the gas on the roots is so be impossible for me, in such an pronounced that the tree suffers and is address as this, to cover all of the fac- likely to die. It seems probable that tors that make for a good crop. The the ventilation of the soil is not only fertility of the soil is dependent upon to allow air to enter but to allow gases four principal facts, viz: Plants must formed in the soil to escape. breathe; plants must drink; plants must feed; plants must have a proper sanitary environment.

the breathing of the plant is mainly the proper sanitary conditions in the through its leaves; but the soil also soil-as I shall explain later. Ventimay be a very important factor in the lation to remove noxious gases might and cultivation of, the land, viz: breathing of plants, as it is necessary increase the yield without affecting to have a supply of oxygen around the the fertility. Ventilation for the purroots. Physiologists differ as to the pose of oxidizing organic might affect office the roots have in regard to the fertility itself.

The U.S. Department of Agriculture | absorption of oxygen. Whether it is true oreathing, the taking of oxygen for the plant economy through the roots as through the leaves has never been decided; but it is unquestionably a fact that roots of cultivated plants require oxygen around them for their healthy growth. We know perfectly well that cultivation of the soil is im portant or necessary for the best development of many crops, and we say that it is in order to introduce oxygen and make possible the introduction of more water into the soil,

The investigation of the bureau of soils seem to indicate that the actual supply of oxygen to the roots may not be the only or even the most important function of cultivation. It seems necessary not only to introduce air into the soil, but by stirring the soil to permit the escape of noxious gases that are perhaps given off by the plants themselves or produced by bacterial action on the remains or excreta of plants. In a crowded room a person begins to feel drowsy, languid and his head begins to ache. We speak of these sensations, usually, as due to deficient ventilation, too little oxygen, the oxygen having been partly used up, and to an accumulation of carbonie acid gas; but physiologists now bethe fertility of the soil-that inherent lieve that this is not the true explanastreets of Washington one of the principal causes of the death of trees is

Furthermore, air must enter not only for the use of the root itself, but also to oxidize the organic matters Of course we all understand that given off by the plants-to preserve

The Madras Pioneer WATER AT TEN FEET SOMETHING NEW

EILERS PIANO HOUSE RENTAL CONTRACT PLAN

Mrs. Fannie Barton, who Choice New Pianos At Wholesale ---\$5 Down and \$5 a Month

Since we are to re-open our new retail store early next Fall, we feel that we do not want to drop out of the retail business in the meantime. In order that our large wholesale warehouse at corner Thirteenth and Northrup Streets---which property we own---does not become filled up with pianos and organs, and in order to keep things moving we are offering choice of any of these fine new pianos at actual

Wholesale and Less Than Wholesale Price

In addition you can buy any of these beautiful pianos on a new rental payment contract, \$5 down and \$5 a month. Think of it, choice fine new pianos at the bare wholesale cost and at the small payments of \$5 per month. Write today for catalogues, etc.

EILERS PIANO HOUSE

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Portland, Oregon

Mrs. Lena M. Lamb and Miss Mae Jackson spent several days visiting at Bend during the past week.

A. W. Boyce and wife were in town on Monday from Haystack. They have disposed of the forty acre tract adjoining the townsite on the northwest corner, and upon which the old Madras Hotel is tocated, J. W. Livingston being the purchaser, for the sum of \$3100.

NOTICE FOR PUBLICATION.

Department of the Interior. Land Office at The Dalles, Oregon,

July 18, 1905. Notice is hereby given that Pearle W. Dean, of Haycreek Ore., has filed notice of her intention to make final five-year

proof in support of her claim, viz: Homestead entry No. 8837 made Dec ember 28, 1900, for the se quarter nw quarter, e half sw quarter, sec 25, tp ib s, r 14 e and Lot 3, sec 2, to 11 s, r 14 e, w m,

And that said proof will be made before the Register and Receiver at The Dalles, Oregon, on August 27, 1906.

She names the following witnesses to prove her continuous residence upon and cultivation of the land, viz:

Harry Douthit, of Shaniko. Kutcher, John Trullinger, and James McCoy, all of Hayertek, Oregon. Michael T. Nolan,

Register.

NOTICE FOR PUBLICATION. Department of the Interior.

Land Office at The Dalles, Or., July 30, 1906 Notice is hereby given that Urban F

Heineck, of Madras, Oregon, has filed notice of his intention to make final commutation proof in support of his latm, viz: Homestead entry No. 14543 made Jane 12, 1905, for the e baif se quarter

sec 13 and e half ne quarter sec 24, tp 10 s, r 13 e, w m, And that said proof will be made before D. P. Res, U. S. Commissioner.

at his office in Madras, Oregon, on Reptember 4, 1906. He names the following witnesses to prove his continuous residence upon,

and cultivation of, the land, viz: S. P. Loving, L. P. Paxton, Bemis and S. E. Binder, all of Madras, MICHAEL T. NOLAN, Register.

NOTICE FOR PUBLICATION.

Department of the Interior. Land Office at The Dalles, Or.,

July 30, 1906 Notice is hereby given that William R. Criswell, of Madras, Oregon, has filed notice of his intention to make final five year proof in support of his cintm, viz:

Homestead entry No 7787, made November 28, 1899, for the se quarter sec 29, tp 10 s, r 14 e, w m,

And that said proof will be made

at his office in Madras, Oregon, on eptember 6, 1906 He names the following witnesses to prove his continuous residence upon, and cultivation of, the land, viz:

A. S. Phillips, W. H. Stonehocker, T. B. Tucker and J. E. Campbell, all Campbell, all of Madras, Oregon.
MICHAEL T. NOLAN,

Register.

NOTICE FOR PUBLICATION.

Department of the Interior. Land Office at The Dalles, (tr.,

July 30, 1906 Notice is hereby given that John P. Monner, of Madras, Oregon, has filed notice of his intention to make final commutation proof in support of his claim, viz:

Homestead Entry No. 18098 made December 5, 1905, for the nw quarter sec 35, tp 9 s, r 13 e, w m,
And that said proof will be made
before Bon P. Res, U. S. Commissioner, at his office in Madrae, Oregon, on

September 6, 1906. He names the following witnesses to DON P. REA prove his continuous residence upon Charles F. Klann, William Brown-hill, Bert Leomis, Frank Stangiand, all of Madras, Oregon.

MICHAEL T. NOLAN. Register.

Desert Land, Final Proof NOTICE FOR PUBLICATION.

United States Land Office The Dalles, Oregon,

July 18, 1906. Notice is hereby given that Gottfried Kampfer, of Shaniko, Oregon, has filed notice of intention to make proof on his desert-land claim No. 410, for the n hali nw quarter, sec 10, tp 9 s, r 74 e. w m, before the Register and Receiver at The Dalles, Oregon, on the 31st day of August,

He names the following witnesses to prove the complete irrigation and reclamation of said land;

Perry T. Monroe, C. M. McPherson and A. Kampfer, all of Shaniko, Oregon, and C. Strasser, of Madras, Oregon

MICHAEL T. NOLAR. Hegister.

Notice for Publication:

Department of the Interior. Land Office at The Dalles; Ofegon,

Notice is hereby given that Charles Fors berg, of Madras, Oregon, has filed notice of his intention to make final commutation proof in support of his claim, vis:

Homestead Entry No. 13,580 made June 7, 1904, for the night quarter see 22, and elg quarter see 32 to low File And that said proof will be made before Don.

P. Rea, U. S Commissioner, at his office in Madras, Oregon, on September 5, 1906.

He names the following witnesses to prove his continuous residence upon, and cultivation of, the land, viz:

Walter Darrar, J. F. Church, Harry Church, and William Criswell, all of Madras, Oregon. MICHAEL T. NOLAN,

Register.

Notice for Publication. Department of the Interior.

Land Office at The Dalles, Oregon, July 20, 1906.

Notice is hereby given that Robert F. Berryman, of Ashwood, Oregon, has filed notice of his intention to make final five-year proof in support of his claim, viz:

Homestead entry No. 202, made March 3, 1900, for the wis se quarter and eis sw quarter see 1, tp if s, r 16 c, w m

And that said proof will be made before Don P. Rea, U. S. Commissioner, at his office in Madras, Oregon, on September 4, 1986. He names the following witnesses to prove

his continuous residence upon and cultivation of, the land, viz: Edward Elkins, Walter D. Walker, Chester 8. McCorkle add Knox D. Huston, all of Ash-

wood, Oregon. MICHAEL T. NOLAN.

Register.

Desert Land, Final Proof. NOTICE FOR PUBLICATION.

United States Land Office, The Dailes, Oregon,

July 18, 1906. Notice is hereby given that Perry T.

Monroe, of Shaniko, Oregon, has filed notice of intention to make proof on his desert-land claim No. 257, for the ne quarter nw quarter, section 13, tp 9 s, r 14 e, w m, before the Register and Receiver, at The Dalles, Oregon, on the 81st day of August, 1906.

He names the following witnesses to prove the complete irrigation and reclamation of said land. Gottfried Kampfer, H. L. Priday, Mrs.

G. Kampfer, C. M. McPherson and A. Kampfer, all of Shaniko, Oregon, and C. Strasser, of Madras, Oregon. MICHAEL T. NOLAN.

Register.

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OREGON

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Madras, Oregon



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Carries a nice, clean, fresh line of drugs, and patent medicines. Prescription werk a cialty. Mail orders given prompt attention. can get your medicines at any hour of the or night.

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Z. F. MOOD

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