less and no more."

SUBSCRIPTION RATES:

Six months

Three months. (Invariably in advance.)

HOW TO REMIT.

Remit by bank draft, postal money

Stage and Mail Schedule.

ARRIVE AT REND.

LEAVE HEND.

For Pamalo Mon. Wed. and Fri. 10 a. m. For Laidlaw daily except Sunday. 10 a. m.

POST OFFICE HOURS—Week days & a. m. to #p. m. Sundays, from 11 a. m. to 12 m., and hall hour after arrival of all mails from sullroad reaching Bend before & p. m.

TRIEFHONE OFFICE HOURS—Week days, from son, m. to cos p. m. Sundays and holidays, om 800 s. m. to 12 moon, and from 500 p. m. to

FRIDAY, OCTOBER 5, 1906.

BETTER AGRICULTURE.

James J. Hill, the great empire builder of the Northwest, in a most remarkable address at the recent Minnesota state fair, pointed out a danger that confronts this republic, a dauger that should attract the coming to this country. It has been the experience of former peoples mg the pitiful bribe of a few free seeds." that when thousands of men were hungry and could not obtain work. Mr. Hill sees a great danger and revolution and anarchy inevitably followed. That is the danger for His call for the establishment of

Basing his deductions on reliable sources of information, Mr. Hill said that by 1950 we will have being put under cultivation by irri-200,000,000 people in these United States. It will demand great farmer needs and wants instruction. natural wealth and many industries There should be an ample approto supply that vast throng with labor and food. But, with the foolish extravagance that has charac- instruction. It is known from reterized America in the handling of liable sources that the government her natural resources, several of the will make an appropriation for this be exhausted. The four great by any state. It would put its exsources of national wealth are the perts on these tarms and would exsea, the forests, mineral products, periment and show to the farmers a permanent crop of this character apart, although the narrower space trimmed hats. and the soil. The products from the very best methods of agricul- it also pays to construct wooden is to be preferred. Each one conthe sea furnish so small a per cent ture. In what way can a state get that they may be dropped from the more lasting returns from its calculations. It is well known that money, than by educating its farmthe forests of America will soon be from the soil can be doubled and The cost of a box of this kind is which are spaced about 60 feet tripled? Central Oregon needs a list also rapidly disappearing. The future welfare of the lessening of the labor bill. By most convenient check for the head list also rapidly disappearing. The relation of the lessening of the labor bill. By most convenient check for the head list and all list also repeat any and all list and repat any and all list and repeat any and all list and repeat any a Whence then is to come the wealth our country demands better agriand resources that will feed and satisfy 200,000,000 people? It is a it be found wanting? question of vital importance-vital at all times but especially so now as it must be solved by the time the editions that has ever come to our child now born is a man grown.

natural resources. But while he jurnishes a valuable ad, for that that the hope of the country is in River. its soil. He says:

in itself, if not abused, the possibility of infinite renewal. All the life that exists upon this planet, all the developments of man from his lowest to his highest.

Tooted plants.

25-32 L.: D. Wikst, Bend, Or.

Chickens for Sale. qualities, rest as firmly and as unreservedly upon the capacities of the soil as does his feet upon the ground beneath him. The soil alone is capable of self-renewal, through the wasting of the rocks, through the agencies of plant life, through its chemical reactions with the liquids and gases within and without it. A self-perpetuating race must rely upon some self-perpetuating means of support. Our one resource, therefor, looking at humanity as something more than the creature of a day, is the productivity of the soil. * * *

'No nation that does not throw its intensest interest and expend the bulk of its force upon the cultivation of the soil can become or remain permanently

Present wasteful and insufficient ing of the soil. In Great Britain Homestead.

THE BEND BULLETIN the average wheat yield per acre is 30 bushels; in America 14 bushels. I "For every man a square deal, no Belguim produces enough homegrown food to supply the wants of 490 people to the square mile. By scientific methods the average crop in France has been increased from 22 to 55 bushels per acre. "These figures," says Mr. Hill, "convict rainfall, length of irrigating period, etc. the American farmer of carelessness and want of knowledge, and the the wide-awake irrigator will glean from order on Bend, express money order, or registered letter. Make all remittances economic and political leaders of the can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit wherever irrigation that it is not practicable to remove a crop can be used with profit people of unfaithfulness to their tion is practiced. trust." To meet the requirements of a dense population by supplying Irrigating Alfalfa in Yellowstone it with food and wealth from the soil, scientific methods of farming must be taught and present wasteful methods overcome. This task of educating the people is largely thorough preparation at the time the water before the alfalfa crop is the work of the national and state the crop is put in, since an uneven cut, allowing sufficient time for the Howard to Dedicate Gold Mines on governments, and Mr. Hill sug- surface or badly located ditches may drying out of the soil before cutting.

"With public interests firmly fixed upon the future, the country in mere selfreservation must give serious attention to the practical occupation of restoring agriculture to its due position in the nation. The government should estab-lish a small model farm on its own land in every roral congressional district, later perhaps in every county in the agricul-tural states. Let the Department of Agriculture show exactly what can be done on a sumil tract of land by proper cultivation, moderate fertilizing and due rotation of crops. The sight of the fields land, and their contrast with those of its In neighbors, the knowledge of yields se cured and profits possible, would be worth more than all the pamphlets soured out from the government printserious attention of every American. Ing office in years. The government ought not to hesitate before the comparatively It is the problem of how we shall small expense and labor involved in such feed, clothe and supply with labor a practical encouragement of what is the most important industry of our present the vast population that is yearly and the stay and promise of our future Disseminate knowledge of farming as it uld and must be, instead of maintain-

> Thus with clear and concise logic points out an adequate remedy. model farms is full to overflowing with common sense. Oregon needs these model farms. Vast areas are gation and dry farming and the ing population so that the returns meet its duty in this respect, or will

One of the handsomest special desk, is the one just issued by the Hood River News-Letter, commem Mr. Hill draws a dark picture orating that paper's first anniver-He points in no lame language to sary. It is full of excellently our extravagance and utter foolish. printed halftones on good book ness in wasting and exhausting our paper, which with the reading portrays possible dire results, he al- enterprising and growing fruit so has a remedy. He maintains district at and surrounding Hood

Barred Plymouth Rock hens; also soil by bringing up the alkali. Be- properly leveled or when it is broksome spring chickens, fine for table tween these two extremes there is en up by ravines, there is usually use. Can deliver at Bend if de- usually some middle course which considerable waste and it may resired. MRS. C. B. ALLEN, Bend, Oregon.

Horses Indicate the Man.

and the way he drives them fur depth over an area aggregating the first irrigation should be applied nishes a pretty good index of the 18,000 acres. This includes all early in order to have the soil ready man himself. A nice span of well- losses of all kinds, but making a for the second application before kept, well-hooked-up horses at liberal allowance for waste there the heads become too large and tached to a wagon or buggy in good would remain about 30 inches, or heavy. A heavy irrigation applied repair indicates, as a rule, & hus- 10 inches in depth for each of three three weeks before the grain is cut tling, progressive farmer. A raw- irrigations. As to the proper time may prove more injurious than benboned team, a roped harness, and a to irrigate, the first application eficial, as the weak stems in the methods of agriculture must be replaced by careful and scientific tillfarm and a listlest farmer.—Pacific gins to suffer. It is too late when ling the heads in an upright position of the coil. In Creat Principle.

Any and all persons claiming adversely the showe described lands are requested to file their farm and a listlest farmer.—Pacific gins to suffer of the printers' trade. Apply at Bulltion of the coil. In Creat Principle.

Problems That Confront The Irrigator.

may differ in some respects from conditions in the upper Deschutes valley, yet

Valley, Montana.

materially diminish the yields of every crop for a long period of years. The loss, from any one of Interest on cost of preparing land, these causes, of 100 pounds of alfalta to the acre at each of three cuttings would amount to \$9 per acre in 12 years, but such causes Cost of irrigating three times, at frequently reduce the yield to the extent of half a ton per acre, when the loss in the time named would amount to \$108 per acre or about double the present value of alfalfa

In preparing a field for alfalfa it is better to plow it in the fall. It is then evenly graded and cultivated a yearly average, will bring about \$1 in the following spring as early as per ton. the ground is sufficiently dry to work and the seed drilled in to a depth of about three inches. The growth of alfalfa in the ditches.

direction. same field in one season, and as a each of the strips lying immediately color dark bay; colt has brand "M" rule each crop is irrigated. One below each lateral is watered. A on right shoulder, color brown. man handles so to 125 miner's in-thorough irrigation consists in sat- 28-31 larger than those found in grain foot. In some seasons one irriga-Hood River Strawberry Plants for Sale a farmer who uses manure for est yields. Sometimes the second postoffice October 1, 1906; "Every people is thus reduced in the, final appraisal of its estate to reliance has made Hood River famous; 75c canvas. Water is distributed as in full supply required to saturate the upon the soit. This is the sole asset that a hundred, \$5 a thousand. Well grain fields. The proper time for soil being used. A volume of water to the proper time for soil being used. A volume of water to the proper time for soil being used. A volume of water tooled plants. each irrigation and the proper equal to a depth of six inches amount of water to apply are ques- spread evenly over the surface is ustions that have not been definitely ually sufficient, when there is no settled. Too little water diminishes waste, for one thorough irrigation. I have for sale some pure-bred the yield and too much injures the When the land is uneven or not will produce the best results. For quire nine to 12 inches in depth ovthe past three years the average or the surface for one irrigation. amount of water used by the farm- Seldom more than half the quantiers under the big ditch, in Yellow- ty of water is used for a second ir-The kind of horse a man drives stone county, has been 41 inches in rigation. In the Gallatin valley

NOTE-A number of articles appearing I drought. As regards the proper in this department will treat of total load and conditions regarding frigation in different sections of the West. While it must be remembered that climate, soil, practice in Utah to irrigate just at the property and fill the ditch. ter taking off the first crop. The majority claim that on the large farms of the Vellowstone valley it over the surface the same day. These contend that so much time elapses between the cutting of the alfalfa and the irrigation of the Alfalfa being a perennial plant, stubble that the latter is badly inthe annual cost of plowing, culti- jured and takes a long time to revating and seeding is saved. There cover after being watered. Those s, however, more urgent need for who hold this view prefer to apply COST OF BURIGATING A 40-ACRE ALFALFA WINED.

at 50 cents per acre.

Repairing and cleahing out laterals, at 25 cents per acre. Cost of water used at \$1 per acre. \$1.25 per acre.....

xix tous at \$3" per ton. ...

Gross receipts, less cost of irrigation, on to acres \$1,080

"Alfalfa hay, in the Bend country, on

Irrigating Barley in Gallatin Valley

The land for a crop of barley in pounds per acre. Many prefer to harvest and is permitted to lie withplow the laterals before seeding and out further cultivation until the folto run the seeder as close as possi- lowing spring. About the first of ble to the edge of the ditch. This May the surface is usually dry and prevents, for a time at least, the it can then be leveled, harrowed, bring their families. and seeded. In that section the Young plants are tender at first average rainfall for the two months and require moist soil for a seed bed of April and May is nearly 4.5 inuntil the roots strike into subsoil ches, enough for the needs of the also liable to be choked by weeds. above the ground. The barley crop day This can best be prevented by run- reaches this stage the latter part of the weeds are cut and make mulch, ditch is already constructed and which prevents the soil from bak- properly cleaned out, the first thing priation made by the state for one ing. The tops of the spindling al- to be done is to mark out the lateror more of these places of practical falfa stems are likewise cut, which als and furrow them out with a causes it to stool out and thicken. ditch plow. The marking out is In alfalfa fields the laterals should often omitted, but when done the be located with an engineer's level grade allowed in fields that have per 100 feet, and the laterals may chain is used, 0.2 foot to 100 feet. be spaced 75 to 125 feet apart. For a permanent crop of this character it also pays to construct wooden is to be preferred. Each one consupply ditches. When it is found terminated about 50 feet from the a box of this kind a ditch. By their use a stream of stream may be divided into three to 125 miner's inches is divided be-bids is reserved. parts, in proportions to suit the con- tween two neighboring laterals and venience of the user, or it may be the small areas lying between the diverted from one course or lateral supply ditch and the first checks. I will give \$10 reward for the reches. The laterals are somewhat urating the soil to a depth of one fields and the water is checked by tion will suffice. In dry years two

rigation the laterals are filled in and leveled in order not to obstruct the reaper. This may be done by the use of a small walking plow and two furrows or by means of a special implement containing two disks, which throw the earth to the center

COST OF DERIGATING A 40-ACRE FIELD OF BARLEY.

Leveling, ditching, and check-Applying sufficient water to mature crops, at 85c. Leveling laterals, at 7c per acre.

ross returns from barley; 48 bushels, at 50c Net returns.......\$1,053-20

BIG CELEBRATION.

been completed and will be dedicated with a big celebration on the 10 afternoon of Monday, Oct. 8.

The exercises will commence about 2:30 p. m., and will consist of visits to the tunnels, mills and other reduction works; the dedication of the mill with appropriate teament. In moneyas, strategies, Rubert King, President Lawrence Read, and James R. Reed all of Read, Origin. works. A test run of the mill has already been made and the success of the enterprise assured. Gold

Any and all persons changing adversely the above described family and are required to the above described family and are required to the above described family and are required to the above described family and the above described family a bullion and concentrates have both been shipped. Those who would like to learn the interesting method of gold ore extraction and reduction should not fail to attend the dedication for thereafter the managequantity of seed sown in the Yel- the Gallatin valley. Montana, is us- ment will not permit visitors in the lowstone valley averages about 22 ually plowed in the fall just after mines and mills except on permits and these will be very sparingly

Redmond Notes.

John Tuck and family returned Friday night from the valley via Shanika. that is continually moist. They are plant until it is five to seven inches He is just in time to begin school Mon-

George Woods has sold his grocery the knife set high. By this process tion. Assuming that the head west on a hunting trip. Walter stays with the stock and is working for Ehert.

> There is some talk of organizing a dass in German Those should see V. J. O'Connor at the D. I. & P. Co.'s office.

Milliner Coming.

Miss Jessie McCallister, a milliner or by some good substitute. The been carefully leveled is about 0.5 of Prineville, will be in Bend on public land states by act of Angus a right nation's sources of wealth will soon work equal to the amount donated grade may vary from 0.2 to 0.3 foot inch to the rod or, when a roo-foot Oct. 16, remaining about two

necessary to divide an irrigation lower border of the field. A dam- of the following buildings, contracstream into two or three smaller mer drawn by one horse follows the tor to furnish material. One house, heads a division box is convenient. ditch and forms the earth checks, bunk house, cook house and barn.

> The right to reject any and all

28tf

Reward for Return of Horses.

into another running in a different are irrigated. The checks of earth turn of either the following mare are then broken with a long-handled and her colt or for both to Dr. W. Old alfulfa fields in Vellowstone shovel and the water flows in each S. Nichol at Bend, Or. The mare county are irrigated one to four lateral until it encounters the next weighs about 1000 pounds, has times during the period of growth. check, where it is held until the "Circle T" brand on left shoulder, Three crops are obtained from the next space is irrigated. In this way double heart on right shoulder,

I. H. MILLER.

Advertised Letters,

The following is a list of letters canvas dams. Occasionally one sees waterings usually produce the large remaining uncalled for in the Bend Chambion, Minule Johnson, July Dealy, C. H. Sewton, Charles H.

Persons calling for these letters will please say they are advertised. A. H. Grant, Postmaster.

NOTICE FOR PUBLICATION. E. S. Land Office, The Dalles, Oregon,

July 2, 1966; Notice is hereby given that in compliance with the provisions of the act of Congress of June 1, 1919, entitled "An act for the sale of thaber lands in the Mater of California, Oregon, Necada and Washington Terribary," as extunded to all the public land states by act of August 4, 1892. Christina Weider

of Bend, county of Crook, state of Oregon, has this day fited in this office but sworm state must No. 2070, for the purchase of the wis nwig. wwig.wig and seignwig at sec 28, to 198, F 10 e.

and will offer proof to show that the land sought is more valuable for its tinsier or stone than for agricultural purposes, and to establish fer claim to said land before it. C. Eilis, V. S. Commissioner, at his office in fleud. Ore-gon, on November 13, 1986.

She names as witnesses: John filess of Sisters, Oregon: Nicholas P. Welder: John O. Fry and Charles Breck, all of Rend, Oregon.

the plant shows the effect of tion. Several days after the last ir-MICHAEL T. HOLAH, Register. | letin office. -

Timber Land, Act June 3, 1878. NOTICE FOR PUBLICATION. U. S. Land Office, The Dalles, Oregoi

July 17, 1906 Notice is hereby given that in compliance with the provisions of the set of Congress of June 1958, cutified "An act for the sale of Uniber lands in the States of California, Gregon, Novada, and Washington Territory," as extended to all the Fability Land mates by set of August 4, 1550.

Plotence A. McCann of Bend, county of truck, mate at thegon, has this day filed in this office for awars statement No. sign, for the purchase of the 1884 of sec 1; p 198, 1 188, w 18.

And will offer proof to show that the his sought is more valuable for its timber or stro-(Way for agricultural purposes, and to establisher claim to said land before H. C. Ellis, i. Commissioner at his office in limit, Origina, a November 11, 1985.

the names as witnesses. Lathrap H. McC. Robert J. McConn, Bruest A. Griffin, William Morrill, all of Bond, Oregon.

Any and all persons claiming adversely the thore-tesershed lands are requisited to file that laims to these office on or before said just day of

MICHAEL T. NOLAN, Regimes

Timber Land, Act June & 1976.

NOTICE FOR PUBLICATION U. S. Land Office, The Balley Oregon

Monday, Oct. 8.

The extensive reduction works at the Gatewood gold mines have

Arthur G. Ely. of head, county of Crock, water of Onegon, los-tiols day filed in this office has second, statement for the purchase of the salars, see, not a married per profession of the salars. And will offer proof to show that the tank adopt is more reliable for the trover or above thereing their for agricultural purposes and to relatively for claim to south that before R. C. Elies, U. S. Commissioner, at his other in Bend, Oregoo, in November 19, 1906.

Timber Land, Art June 1, 1879. COTICE FOR PUBLICATION. U.S. Land Office, The Stiller, Ovegon.

Notice is breakly given that in a merglionar with the providings of the Asi at Complete at I have a 1976, colifical "An est be the only if inches lands at the states of Colifican, Oregon, Nevesta, and Weshington Territory," as exhausted to all the politic land states by act of August 2, 100.

No liquors will be allowed at the dedication and all are invited to

And with offer period to above that the familiaringht is more valuable for its timber or assumption for agricultural temposers, and to establish low claim to and lamb before it. c. kilks. U. s. Commissioner, at his affects the book Aregon, so Notwenber 13, 1936.

She natures as wifecases. Charles from Joneph N. Henter, Michael J. Microsom and natural C. Caldwell, all of fixed, Gregon.

Any and all persons eligibility allowed the thick-claims in this office on ar before and the thick visiting in this office on ar before and 1.31 day in Nicrosolber, 1936.

MICHAEL T. NOLAN, Register Timber Land, Act June 4, 1715.

NOTICE FOR PUBLICATION.

t., S. Land Office, The Dulles, Oregon. 2 mly 31, 1906.

Notice is hereby given that is compliance with the provision of the act of Congress of Jane 3 tive autited "An act for the sale of time lands in the states of California, Origina, Nevada and

Bomeys D. Wickbam-

Bids Wanted. then for agricultural purposes, and in relability of the process of

Any and all persons claiming adversely the above described lands are requested to bit they claims in this effice on or before said igth day of Kewenther, spot.

MICHAEL T. NOUAN. Beginner.

NOTICE FOR PUBLICATION.

U. S. Land Office, The Dalles, Oregon, July 50, Yunt.

manuel A. Makbey of Bend, county of Crock, state of Crockin, has the office of Crock, state of Crockin, has the office of the state of

Organ.

Any and all persons glaining adversely the above described hards on requestry to he their falams in their others in the and rith day of November, 1998.

Step Michael T. NOLAN, Register.

Timber Land, Act June 2, 1818. NOTICE FOR PUBLICATION. D. S. Land Office, The Dalles, Oregon.

Notice is hereby given that in compliance with the provisions of the act of Compress of Igne 1 1978, entitled "An art for the sale of States Lands in the single of California, Oregon, Normaly, and Washington Territory," as extended to all the quick land states by see of August 4, 1845. Dilyton take Just W. Lokin.

Diet W. Lekin

of Read, county of Creek, state of Oregon,
has this day filed in this office his sword
statement No. 2011, for the purchase of the sety
of see 22, 19 19 a, 7 12 c. w m.

And will offer proof to show that the land
sought is more caluable for Rs timber or slone
than for agricultural purposes and to establish
his claim to said land before H. C. Hills, U. S.
Comoussioner, at his office in Rend, Gregon, on
November 12, 1928.

He names as witnesses, John 2020, 1921

He names as witnesses: John Steidt, Robert Mancy, Theodore Tweet, Robert Wilson, Elea-nor F. Lakin, all of Bend, Oregon.

Any and all persons claiming adversely the above-sescribed lands are requested to file their claims to this office on or before said tall day of secondary. mier, 1996. MICHAEL T. NOLAN. Register.

Boy Wanted.

Bright, industrious boy to learn