THE BEND BULLETIN

"For every man a square deal, no tess and no more."

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	A St. St. Statements

HOW TO REMIT.

. Remit by bank draft, postal money order on Bend, express money order, or registered letter. Make all remittances payable to The Bend Bulletin.

Stage and Mail Schedule.

ARRIVE AT BEND.

Prom Tumalo Men., West, Fri 4/15 p. m Prom Laidlaw daily except Sanday 9/20 n. m LEAVE DEND.

 Por Shaniko via Prineville
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 Yor And Fri.

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 10 S. m.

Post Cirrici Horas-Weck days, Sa. III, 10.8 p. m. Sundays, from 11 a. in. to 13 m., and half from after arrival of all mula from railroad reaching land before 8 p. m.

Siching mein Service Houss -Week days, from TELEPRONE OFFICE Houss -Week days, from room m to done p m. Sundays and holds, room Som a, m. to 12 mean, and from 300 p. m.

FRIDAY, OCTOBER 11, 1906.

NEW METHODS.

When agriculture is discussed in the upper Deschutes valley, irrigaaion is the chief topic of conversation-how water should be applied. when and in what amounts to produce the best crops. This is natural and is as it should be. Men are invariably most interested in those occupations with which their daily lives are filled, and it is not strange that people in this region should be interested in irrigation when so many thousand acres of fertile land are being made productive through the work of the big irrigation companies operating hereabouts. Irrigation will always play an important part in the lives of the inhabitants of the upper Deschutes valley and should receive much study.

However, there are many hundreds of acres in this vast part of Oregon lying east of the Cascade range that can never be irrigated. for want of water and because the land lies higher than any irrigation canal could be built-you can not make water run up hill with any degree of practical success. For such lands, fertile and vast in extent, much promise is found in the is now being widely advertised and discussed, known as the Campbell days go by. Knocking can not cereals. If one's holding is all operated to wheat, for example, a row irrigation is not practicable.

can only rarely be persuaded to give dry farming a trial. They will not even read dry farming literature, or visit a model farm or an agricultural experiment station to inspect the results obtained by rational methods, "Newcomers in the West, however,

are nearly always willing to learn and profit by the experience of others and the younger element among the farmers. hail dry farming as the dawn of a new era."

This prejudice against "new fangled notions" should be eradicated by all men, whether farmers, professional men or merchants. And we do not believe it will be found to any great extent among that class of farmers now settling that the Campbell method will be a proper spirit.

> agriculture there should be estab- the irrigation stream is measured as water which would have covered rain and ditch water. lished model farms. There is a it crosses the highest boundary of a the surface to a depth of six feet. In nine clover fields the largest work for the state and nationwork that is a duty. In no way diversion from the natural channel, because the open space in the sub- a small crop. model farms.

Few studies possess as much interest as the study of the soil, and but lew will give greater return water required. In Montana all plied, tial nid from the state and national

against the corporations and the most to start their crops In the to properly prepare his field for ir-exposures of corruption are bad, Gallatin Valley in particular the rigation. These defects invariably very bad. It destroys opportunity months is fully equal to one irri-measured in waste of water and for the enterprising young man and gation, and forms about 30 per cent small yields. In an arid country damages trade. How sad it is of the average amount of water re- thorough cultivation serves a that the young man of today is ceived by fields under careful irri- double purpose in that it increases in destroying competition, and in surface at Bozeman, Mont., for the to apply water to an uneven surstrangling out all competition by past four years has been 0.94 inch face, the growth of crop is not uni-

place establish a purer national life which water can be used is com- of alfalfa can be grown in less than and higher ideals. Great is the paratively short. In some parts of 30 days, a crop of barley in somegod of trade. "Great is Diana of in April and May, but, taken as a require 150 days to ripen certain the Ephesians."

from the mills at Bend to crect The average length of the i-riga grown in one season. results, that are being obtained buildings throughout this country exceed too days. through modern methods of dry that has been called worthless by Water can seldom be economi- quantity used. Some soils bake

Problems That Confront The Irrigator. mmmmmmmmm

minmonom

common.

Some Conditions Which Affect the | water will gradually become more Duty of Water.

per cent of the total volume divert- tinguish top soils from bottom soils. water. d. The flow, after it is turned and the roots of plants extend to

used.

methods that smother all that is for the months of May, June, July jorns, and the soil in the low places the state irrigation water is applied thing over 100 days, while it may broken blister. whole, the ordinary crops receive varieties of iruit. There is not only the greater part of the season's a difference in the period of growth.

Every day lumber is hauled away supply from May 15 to Augut 15. but also in the number of crops tion period in Montana does not

farming. A method of soil culture the knockers. But you hear less cally used on a one-crop farm. after being flooded and furrow irri-

depths of from four to rofect every season, are usually the most careless in preparing the land or in cultivating the surface, and the result is without exception a small

yield. That yield does not depend on the amount of water applied is The subsoils of western lands clearly shown by the fact that a receives much more water from the when first brought under irrigation field which received over six feet of contain little moisture. The most water in two irrigations produced stream than it delivers to the irri- striking characteristics of these only 37 bushels per acre, while a gated fields. Porons soil and a formations are their great depths field which received in one waterhigh summer temperature cause and the close similarity which ex- ing less than seven inches produced osses in conveyance in the main ists between the surface and sub- 73.5 bushels. The largest yield canals, seldom less than to per cent surface layers. Apart from their was 80% bushels per acre from a darker color, due to decayed vege field which received 1.04 feet of irand rising occasionally to over 30 table matter, there is little to dis- rigation water and 0.64 foot of rain

The largest yield on eight fields out of the main canal into laterals, great depth through the latter. of barley was not obtained from the is subjected to a still further re- On account of these prevailing use of the most water, which was tried by many next year. This is duction in volume from the same physical features a large part of the 1.98 feet of irrigation water and cause, so that in stating the quan- water which is applied for the first 0.42 foot of rain, or 2.40 in all. tity of water used on a tract of land few seasons is absorbed. Cases are A yield of 87.25 bushels was onstrate these better methods of it is important to locate definitely common in which new land has ab harvested from the field which rethe place of measurement. When sorbed in one season a quantity of ceived less than 18 inches in both

al governments along this line-a conveyance. When, however, the correctly represents the duty for ing, but, on the other hand, the water is measured at the point of such land is a misrepresentation, next largest use of water produced

can money be invested where the all losses due to seepage, evapora- soil is gradually filled with water. In comparing records of irrireturn will be of greater or more tion, and leakage are included, and and the ground-water level in time gated fields, the conditions under lasting benefit than in establishing this shows a much larger quantity rises nearer the surface. It is a which the crops were grown should fact, however, that new land be considered. It is extremely Rainfall, midsummer temperatures requires much more water per acre important to remember that the and the length of the irrigation than old cultivated fields, and crops of the state, and in many cases untue of the dame in the office of the state, and in many cases untue of the summer that are likely to suffer if it is not supder a wide diversity of soil and than that study. This interest three conditions are favorable from Other conditions being similar, climate. In view of this fact, the should be augmented by substan- the standpoint of the economical less water will be used on a farm records as given should not be used use of the water supply. The which has a good system of ditches to base conclusions as to the proper average annual precipitation over and laterals and a well cultivated, amount of water to use in the governments. Roosevelt says control the trusts. Rockefeller says that recent attacks The cultivated portions of the state is over 14 inches, and a large part of this occurs in April, May and June, when farmers need moisture Network that when a larger roop with a larger crop with a larger crop with a larger of with a larger of a larger at the state by set of August 4, stat

Blood Poisoning Sets in Blister.

Miss Ethel Chapman was carrying her left arm in a sling Tuesday, due to a case of blood poisoning in that the young man of today is being denied the splendid oppor-tunity to enrich himself by corrupt-ing men in high and low stations. and was rather anxious to go, she blistered a finger on the left hand. good out of a man. And what a should be more southerly and warmer cess of water. pity it is to injure trade-the piling portions of the arid region. For The time to mature plants differs. was just setting in the wound. It up of dollars and cents-and in its the same reason the period during Under favorable conditions a crop is supposed that the dye in the oned the wound made by the

Gun Play is Out of Date.

We understand that a misunderstanding arose between Dr. Gibson. and Ralph Day at Alturas a short time ago over political matters and plied is perhaps as important as the only for the interference of bystanders a shooting scrape would have resulted, as both were said to have had their guns out .- Lake-

Timber Lucd. Act June 3, 1878 NOTICE FOR PUBLICATION. U. 8. Land Office. The Dalles, Oregon

1618 17. 10ch

Join 17, 1965 Notice is hereby green that in compliance an her providing of the art of Compress of Jun-with anthon "An act for the safe of Hinber Issue in the Sintes of California Origon, Necasia an Washington Territory." as extended to all to Pathle Land Builtes by act of Asignet 4, 1962.

Florence A McConn.

of Bend, county of Crook, while of Gregon, has this day flow in this office. But switch statistic to No spat, for the porchase of the nw [4] of set 1, (p 19.8, f 12.7, 9 M).

And will offer proof to show that the land has for aprication purposes, and to estavisa-or claim is said land before if. C. 1016. (): Commissioner, at the office in Bend, Oregon, in November 12, 1986.

fibe maines as witherable. Lift trop H. Mid sur-Rubert J. McCourt, Feneral A. Griffin, Weiliam H. Morrill, all of Bend, Oregon.

Any and all persons claiming advectory in-norm-bearybord lands are required to the theory sins in this office on or before said rath day of

MICHAEL T. NOLAN, Register 32.000

Tumber Land, Act. June 3, 1825. NOTICE FOR PUBLICATION. U. B. Land Office. The Dalles, Dregon July and such

Notice is hereby given that is compliance an the provisions of the ast of compliance of the edge sublish. "An act for the sale of third-lands in the states of Saliderina, Dragon, force and Washington Territory," as estended to the public land states for and of August 4, 19, 100 public land states for and the Arthur G. Ely

of heard, county of Crossk, series of Oregon, has the day filed in this office has several structure for each first he mark have at the structure, and mark and no greek of sec at, by ten t at a

And will offer prind to almos that hand minght is more valuatile for the to or stone thereon than for agriculturation; soul to establish it claim to earl band to R.C. Ellas, U.S. Commissioner, all has afte-liend, Oregin, on Norvember 19, 1990.

He names as witnesses: Rudlard Kong, b-Hunnell, Laverne Rweit, and James & Re-all of Bend, Oregon.

47.844

Timber Land, Act sure 2, shift, 'OTICE FOR PUBLICATION. U. S. Land Office, The Dulles, Oregen.

July 21, 1916.

of Bend county of Cenok, state of Gregora has thus day filed in thus offsee has wearing materiated N= part, for the procedures of the weighted with act of sec 14, tp 19.8, t = 0.2, with,

And will offer proof to show that the fact ought is more valuable for its timber or store has for agreed with purposes, and its establish we charm to said hand before it. C. Blus, U. a ounsitissioner, while office an Bend, therein, on

MIGHARL T. NOLAN, Regular 12.485

Timber Laud, Act Sour 9, 1878.

NOTICE FOR PUBLICATION. U. S. Land Office, The Dallos, pregon-

Intra 1. Last

Sources is hortchey given that in compliance with the provision of the set of Compress of Jone 1, right cantilled "An set for the sale of function handle in the states of California, Oregon, Newsda and Washington Territory," as categolod to all the public band states by set of August 4, suc. August 19 March 201 Romeyo D. Wickburg

I Bend, somety of Cruck, state of Oregon as flux duy filed mathia office his sumer advanced No. may fire the party basis of the st by and s basis of sec al, tp to a, y is a, as in, Applicatil offer proof do show that the law applies to more valuable for the function on some one for agricultural perposes, and in existing in claim to mid land before 44 k. Edin, U For agricultural performs, and to estat claim to will land before At C. Kilin, U-minimum at the odder in Bellet, Dergon, ratheny of November, 1996.

Its names as withouses. Ernest A Griffie, style C. Triplett, Thomas W. Triplett, Using Cas, all of Israil, Oregun.

Any and all persons chaiming adversary the new described made are responded to the the attest in this office on as before and rath day of

The way in which water is ap-

Bids Wanted.

small amount of water .- Covernment Bulletin No. 172.

Monday evening the hand began to gloves Miss Chapman wore pois-

desert in other states has been con- this season. verted into great grain fields, orchards, vineyards and happy homes. This method, given a proper trial, will produce similar results on the fast-disappearing "desert" lands of Eastern Oregon.

On another page of this issue will be found an account telling how a farmer near Madras employed the Campbell principles of cultivation and thereby more than doubled bell's teachings.

J. J. Hill says that the hope of perpetuating the American government lies in a better and more scientific treatment of the soil-in better agriculture. If this is true it is important that methods whereby crop yields are doubled and tripled should be carefully studied and

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method, whereby the hot, barren stand before the spiendid crops of

That New Court House. Madran Pioners

The fact that our county court is ad-vertising for bids for a new court house

stated fact that the court doesn't care what the rest of the taxpayers of the county want and don't want, so long as cars is what gave it the nick name of he "City Council of Prineville."

entering into any contract for the con-struction of a court house or any portion of it, whereby an indebtedness of to ex-ceed \$5,000 would be incurred. Those who are familiar with the present status of the county's finances know that no same for any two, and so it is pos-duce the largest yield of grain in contract for a new court house or any sible to keep a small stream flowing the state, use the least amount of part of it can be entered into this year sible to keep a small stream flowing the state, use the least amount of without a violation of the injunction. Their only alternative is to keep up the present high rate of taxation, with a taxroll about double that of last year, in order to raise money to carry out their chemes for a new court house next year. applied. A writer in the Century it remains to be seen whether the tax pavers of the county will tamely submit "As a class farmers are the most con-servative men in the world. Most of those who left Eastern farms to built use homes in the Western land of prom-its argue that the methods their full.

planted to wheat, for example, a row irrigation is not practicable large flow may be required for a In irrigation by flooding, as genershort period, but when the needs ally practiced in Montana, care is for this one crop are supplied the usually taken to distribute the owner may have no further use for water during the day, but it is left the irrigation stream. In growing unattended during the night. Fully alfalfa, or any other leguminous 20 per cent of the available supply milding in spite of the vigorous protests crop, under irrigation it is possible may be wasted while the irrigator d a large majority of the taxpayers of to get a higher duty out of the sleeps or is off duty.

he county, but emphasizes the often water supply, for the reason that It frequently happens that fields two or three crops may be grown which have received large quantion the same field in one season. A ties of water produce low yields. t is clear that Princyille wants this new farmer who is entitled to the con This result may be due to one or surf house. That attitude on the part tinuous use of one cubic foot per more of a large number of causes. second for 80 acres may thus be Chief in importance is the proper able to supply water to three crops cultivation of the soil. It may be the yield per acre on a 40-acre tract. This same result can be produced elsewhere and there is no doubt but that the yield on the dry farms between Bend and Prineville could be greatly increased by a lit-tle extra work in line with Camp bell's teachings.

can be utilized to the fullest extent. the largest and most profitable continuously on first one and then water in irrigation. another of the subdivisions.

On account of the large size of regions of the state sufficient water the average farm and the plentiful is diverted to cover the land watered supply of water, the necessity for to depths varying from 3 to 5 feet, time rotation in the delivery of but since a large percentage is lost

Bids are desired for the crection of the following buildings, contrac-

tor to furnish material: One house, bunk house, cook house and barn. Plans and specifications may be seen at R. D. Wickham's office at

Bend. The right to reject any and all bids is reserved. 28tf

Reward for Return of Horses.

I will give \$10 reward for the return of either the following mare and her colt of for both to Dr. W. S. Nichol at Bend, Or. The mare weighs about rooo pounds, has 'Circle T' brand on left shoulder, double heart on right shoulder, colof dark bay; colt has brand "M" on right shoulder, color brown. 28-31 J. H. MILLER.

A. H. Grant is confined to the house this week with a touch of la grippe.

Timber Land, Act June 3, 1578. NOTICE FOR PUBLICATION. U. S. Land Office, The Dalles, Oregon. futy 1, 1906.

July 2, 1996. Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1988, entitled "An act for the sails of timber lands if the states of California, Oregon, Nevada and Washington Territory." as extended to all the public land states by act of August 4, 1892, Christina Weider Throughout the most productive

water has not been keenly felt in in transit the volume which reaches Montana up to the present. It is the fields would not cover them to only when a scarcity exists that depths greater than 20 to 40 inches will

in size this method of diverting water, covering their fields to syng MICHARL T. HOLAH. Register. letin office.

MICHARLY, T. NULAN Register.

Timber Land, Act June 3, 1878.

NOTICE FOR PUBLICATION. U. S. Land Office, The Dalles, Oregan,

July 36, 1886 Notice is hereby given that in compliance with the provisions of the Act of Congress of June 3, 1876, entitled, "An act for the axis of timber leads a the states of Caldionius, Oregon, Nermin, and Washingtan Territory," as extended as all the public land states by act of August 4, 1894.

public bind states by act of August 4, 1992, Somuel A Blackey of firmd, donuty of Cronk, state of Oregius, how this day field in this office his swore statement No got 6, for the purchase of the mignetic and set(1992) of set 28, 10 up 8, 1 (20, 9). And will office proof towhow that the fault wought is more valuable for its timber or stone that for agricultural purposes, and to extation this cloud to said and before H C. Blis, U. Se Commissioner, at the office in Bend, Oregon, on Necessarian 1, 1995.

He names as witnesses. Robert Money, Charles Brock, William Brock, John Steall, all of Bond, Gregon.

Any and all persons claiming adversely the show described hashs are requested to file their claims in this office on or balance the said rath day of November, 1966, w7-09 MRCHARL T. NOLAN: Register.

Timber Land, Act June 3, 1828. NOTICE FOR PUBLICATION.

U. B. Ludif Office, The Dalles, Oregon,

July 27, 1986.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 1, risk, emitted "An act for the sale of the ler lands in the states of California, Oregon, Nevada, and washington Territory," as extended to slithe public land states by det of August 4, rise.

Bert W. Lakin

of Bend, county of Creok, state of Gregou, has this day filed in this office his sword statement Nu. 301. for the purchase of the set of sec 32, 4p as 8, 7 12 6, w 03.

of see 31, 19 19. (1) 4, w m, And will offer proof to show that the land month to more valuable for his timber or sime than for agricultural purposes and to examblish his claim to said hind before H. C. Ellis, U. S. Commissioner, at his office in fland, Oregon, or November 13, 1926. Lie names as withcreases. John sheld, Robert Munny, Theodore Twent, Robert Wilson, Flea-nor F. Lakin, all of Bend, Oregon. Any and all persons claiming advergely the

Any and all persons claiming adversely the there-described lands are requested to file their laims in this office on or before said tith day of cember, 1966 MICHAEL T. NOLAN. Register.

HT-10-0

Boy Wanted.

Bright, industrious boy to learn the printers' trade. Apply at Bul

only when a scarcity exists that depths greater than 20 to 40 inches