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

SUBSCRIPTION RATES:

\$1.94 Oue year. Big months. Three months

(Invariably in advance.) HOW TO REMIT.

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

#### Stage and Mail Schedule. ARRIVE AT BEND.

Prom Tunialo Mon , Wed. Fri. ally except Tues LEAVE DEND.

Post OFFICE HOUSE-Week days; 8.a.m. to Sp. m. Sundays, from 17 a. m. to 12 m., and bail hour after arrival of all mails from railroad reaching Bend before 8.p. m.

TRLEFFORE OFFICE HOURS-Week days, from yosa. m. to good p. m. Sandays and holidays from floo a. m. to tz noon, and from 5.20 p. m. to 200 p. m.

## FRIDAY, OCTOBER 26, 1906.

#### THAT DESCHUTES DAM.

The reclamation service's recent announcement to build a dam in the Deschutes river canyon-and thereby destroy one of the most desirable railroad routes into Central Oregon-has aroused no small degree of condemnation. This is as it should be. Here in Central Or egon there is a vast empire of undeveloped wealth awaiting the coming of transportation to spring into life and furnish work and homes to thousands of people. This vast empire is on the verge of this development and any act that hinders it, however temporarily, is unjust and unwise. While there are several other very good routes into Central Oregon, upon which surveys are now being rapidly completed, the only railroad that had actual construction under way was the one coming up the Deschutes canyon. This line must now be abandonedat least until the reclamation service throws over its plan to build this dam.

The Bulletin has no desire to attack the reclamation service. The good it is doing in reclaiming many sthousand acres of desert land can not be computed. However, this plan to dam the Deschutes, generate electrical power and carry it 100 miles or more to pump water for the Imatilla project and in doing it re-

THE BEND BULLETIN error of her ways and that the mist that has so long befogged her vision is at fast disappearing. From the very beginning of irrigation development in western Crook county. a large majority of the people of The Supplemental Value of trrigation. Prineville have knocked Bend and the Bend country with all the power they possessed. Strangers pass-

> ing through Prineville on their way part of the county was a worthless. barren waste and anyone was a fool to invest money in it. The following confession by the Crook County creasing the yield, and making the Journal is, therefore, noted with plant safe during the critical heated the bushel yield per inch steadily pleasure by western Crook in that periods. it shows the falsity of former state-

ments by the knockers. The Journal says:

"Two years ago when it was noised around Prineville that a few settlers had taken up land on the 'desert' under the Carey act, we pitied them for their lack of judgment and laughed at the thought of anyone trying to raise a paying crop among the junipers. About two months ago we felt a mild jar when we received the advertisements of a fair to be held at he one-year-old town of Redmond on the 'desert.' The story of that fair has already been told. The surprise of those who visited it-'

The western part of the county has always maintained that this knocking by Prineville was caused county seat was fearful of the growing importance of this part of the county and afraid that the towns springing up here would some day outstrip Prineville in size and importance. The county seat apparently could not see that the development of any part of the county would react favorably for Prineville. just, narrow-minded and foolish-a silly attempt to prevent inevitable development. "It is hard for thee to kick against the pricks."

### A COMMENDABLE MOVE.

Next to transportation there is probably nothing that is of more period from August 15 to May 4 supply of moisture must be most importance in a new country than the total precipitation was in fact available from early youth to the an efficient system of rural and 11.5 inches. A little more than 82.6 time of flowering. Especially does long distance telephones. It furnishes rapid and easy communica- the soil, and to be stored there at the flowers are once well produced, tion with the country districts, sup- the beginning of the active growplying the ranchers with an easy ing season. means of ordering goods from their trading centers. It also makes life more enjoyable for the farmer, keeping him closer in touch with the events of his neighborhood and the in the fall and carefully harrowed world in general. The rural telephone is also a powerful factor in

binding the people of different com- natural precipitation. munities closer together and thus tard development in this section of engenders common interests and planted to wheat in the spring, and ject. The barest notice must suffice



BY DR. JUHN A. WIDTSON, IN THE TRREGATION AGE.

(Continued from last week) The early spring water should be inch of the first 2.5 inches of irrigarun on the land and made to do tion, plus the soil moisture, was a to Bend to look over the country duty in producing crops. The soils little less than three bushels, have invariably been told that this well stocked with water in the while the corresponding inch value spring usually are able to carry when five more inches of irrigation crops through the season without water were added, was about 2.3

such fields is valuable chiefly in in- is, of course, more reasonable. iecreases, thus

It does not matter so much when inch for inch, the water stored the water enters the soil. The in the soil in the spring is of higher chief thing is to get sufficient mois- crop producing value than any irriture into it If the wasted waters gation water applied. Certainly,

of fall and spring were used on the in considering the effect of any fields, the duty of the irrigation depth of irrigation upon crop prostream would again be materially duction, the amount of moisture in increased.

It is a crime against the interests consideration. of the arid West to let either fall or ANOTHER VALUE OF EARLY SOIL spring water run to waste. MOISTURE.

AN EXPERIMENT ON THE VALUE OF THE NATURAL PRECIPITATION.

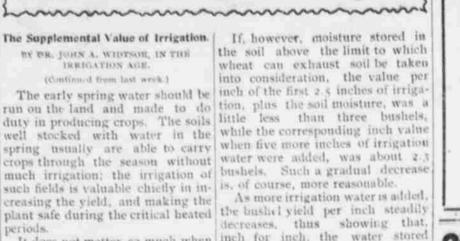
On a typical great basin soil, ture that may be taken from the classed as a medium loam, observa- soil. From a moist soil much more tions have been made for the pur- water is taken per day or week pose of determining how much of than from drier soil. If the soil is the natural precipitation may be kept very dry, much of the energy by a feeling of jealousy-that the retained in the soil. In the fall, of the plant is lost in overcoming about the middle of August, after the attraction between the soil parwheat harvest, the soil was found ticles and the thin water film. I to contain 9 per cent of moisture to the soil is kept very moist, much of a depth of eight feet. It is an in- the energy is consumed in evaporteresting fact that, on similar soils, ating immense quantities of water it appears that wheat can not into the air. In either of the above reduce the soil moisture below 9 cases, the loss of energy means a per cent. On May 4 of the follow- reduction in the yield of dry matter ing spring the soil was again examined and found to contain an the wise irrigator to keep the soil average of 17 per cent of water to supplied with the best amount of Prineville's knocking has been un- a depth of eight feet. Seventeen water at all times, that is, the per cent of water is nearly equiva- proportion of soil moisture that will lent to 20 acre inches of water. furnish the amount necessary for Deduct from this depth to 5 acre thrifty plant growth in the most inches, the equivalent of the water economical manner. It is not the found in the soil in the fall, and there remained 9.5 inches, which amonsit in this paper, but simply must have been added to the soil to call attention to the fact that in as rain and snow. During the the case of all annual crops, the

per cent of the total precipitation the demand rise just before and was thus shown to have entered during early flowering time. When Such observations have been

made on other soils, with practical- If this be so, we have another ly identical results. Of course, in argument in favor of the largest every case, where such results have been obtained, the soils were plowed in early spring. Similar soils plowed in the spring seldom gathered more than one-third of the

the state is manifestly unfair. The ambitions, which results in much varying amounts of water were ap- at this time. All plants are like

43



the soils must alway be taken into

Plants do not possess the power of regulating the amount of mois-

per acre. It should be the aim of purpose to discuss this optimum the crop needs much less water for its life processes, and then the soil moisture may be allowed to fall. possible amount of capillary water in the soil in early spring. Thus, also, the supplementary nature of

CONCLUSION.

irrigation is emphasized.

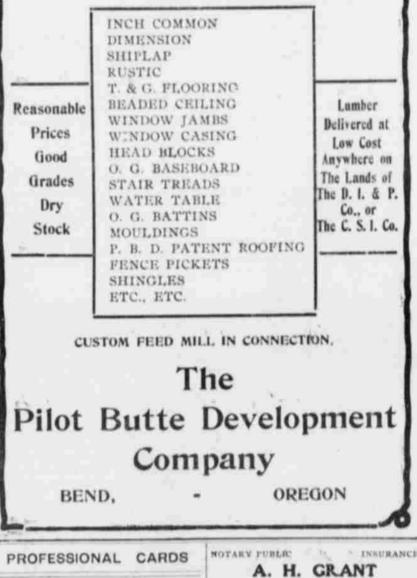
The limits of this paper do not The land above described was permit the development of this sub-



A Complete Stock of

DRY -At Bend, Rough, Surfaced and Moulded At Bend, Oregon. Oregon. LUMBER

All Widths, Lengths and Thicknesses



be injured in order to build up the in development. Umatilla region?

farther up-stream. Under such chutes valley . plans the people of Central Oregon this section of the state.

COMING TO HER SENSES. t. It is to be hoped that Prineville we need for our faith in the Bend cotiris today is something more has at last been convinced of the country?

portation facilities-both rail and some advantages are lacking, a The results follow: water—and is in the midst of a sec-tion that is rapidly developing. the that is rapidly developing are settlers, thus aiding the the that is rapidly developing are settlers.

Hence, the announcement this It may be answered that the only week by the Deschutes Telephone practical plan to get water onto the company to construct an extensive I'matilla lands is by pumping and system of rural phone lines in this that the Deschutes is the only avail- region is received with pleasure. able stream from which to obtain That the company has reached this that the water stored in the spring consequence, the water at the dispower for such pumping. It this is decision is largely due to the efforts must have been active in producing posal of the farmer will be made true then let the government engi-neers build their dam only a few of the company, who has been miles farther up-stream—at some diligently working with this end in miles farther up-stream-at some diligently working with this end in four bushels more. If the irriga- gated area will be increased. point above the confluence of Wil- view for several weeks. Mr. Guerin tion is considered as alone having low creek with the Deschutes. That and the Deschutes Telephone com- value in crop production, the above irrigation knowledge. There is a would leave the canyon open as far pany deserve commendation, as table would give the first a.5 inches vast undiscovered field covering the as desired, and it is said that just these extensions mean much to the a value of 14 bushels per inch, relation of crops and soils to water as good power sites can be found development of the upper Des- while the following five inches under the climatic conditions of the

will be only too willing to have the acquiring all the timber they can government harness the Deschutes purchase, and attempting to buy and use its power for the welfare of ranches and meadow land; with the Umatilla project. But they do the country covered for miles with deem unjust any arrangement to railroad survey stakes and with to the sugar trust and the Standard cert to be given in the Club hall at Bend develop other sections of the state these roads hurrying finel locations at the expense of Central Oregon. and construction; with many large Ohio on a charge of conspiracy in phonograph. I do my own singing. My For the Umatilla project, the gov- concerns building irrigation works restraint of trade and violation of the concert is second to none and if it does ternment engineers should discover, the cost of which mounts into the state anti-trust laws. So far very not need with your approval your money if possible, a site for a dam the thousands of dollars," and with othbuilding of which would not inter-er capitalists promoting more recla- mours, Rockefellers, and other other models have said of my concertfere with railroad construction into mation projects-with all these indications of coming development the penitentiary and the country Come and enjoy yourselves. You won't before us, what better reasons do of a wealthy law breaker in our

Depth of Irrigation tion Water An-plord, plan the Montare stored Vield of Bushi's during fall and winter, per acre. per acre. (Acre Inches.) (Acre Inches.) 12.0 5.0 14.5 17.0 524 7-8 10,0 19.5 47 15.0 24.8

63.5 would have an inch value of only western United States. The sup- nEND, o.8 bushel. Such a tremendous plemental value of irrigation will With several large lumber firms difference within such narrow limits not be the least important branch seems unreasonable.

> The New York Central has been fined \$108,000 for granting rebates Oil company has been convicted in on Wednesday, Oct. 31. Also illustrated good. Now let some of the Ar- will be cheerfully refunded. You have "captains of rascality" be skut to the test that ever visited their town than a farce.

(Umatilla project has ample trans- good. In a new country where which the field had been divided, appreciate the start given them by an abundance of moisture, stored in the soil in early spring. When it shall be understood by irrigator and canal manager, that over a large portion of the irrigated area, irrigation should be supplemental to the natural precipitation, very little irrigation would be given Tweet wheat and the other grains, and correspondingly less water will be given sugar beets, potatoes and Even a glance at this table shows other long growing crops. As a We are yet in the beginning of

of that coming study.

#### Moving Picture Concert.

Don't forget the moving picture conand comic sot gs, parodies, etc. No BEND, other papers have said of my concertget buncoed this time. Respectfully, DR. C. H. MCCAFFETV.

The Bulletin gives the news.

C. S. BENSON, ATTORNEY AT LAW Bend, - Oregon. W. P. MYERS LAND ATTORNEY we years special practice before the U. B. ad office and Department of the Interior. Also graveral practice.	Liverpool, London & Globe, and Lancashire Fire Insurance Companies. BEND. • OREGON
	J. H. HANER, ABSTRACTER of TITLES NOTARY PUBLIC FITE Insurance, Life Insurance, Survey Bonds, Real Estate, Conveyancing PRINEVILLE, OREGON
U. C. COE, M. D. OFFICE OVER BANK hysician and Surgeon	J. W. ROBISON Veterinary Dentistry OFFICE AT BEND LIVERY & TRANSFER CO. STABLES.

TELEPHONE NO. 21

DR. I. L. SCOFIELD

DENTIST

Office in residence on Hawthorne Ave,

R. D. WICKHAM

Attorney - at - Law

OFFICE OVER BANK

Repairing Thate opened a re-pair shop in the Bend Livery & Transfer Cole barn, and will chery a full line of hardess repairs; also whips, curry combs, breat es, blankets, etc., Bring in your

FRANK BUTTERWORTH.

Will also continue to repair shoes.

67

. . .

.

Harness and Shoe

.

BEND

OREGON

OREGON

# J. W. ROBISON Veterinary Dentistry

BEND, · · · OREGON

# Crook County Realty Co Real Estate Bought and Sold. Life and Accident INSURANCE.

OREGON OFFICE IN BULLETIN BUILDING. EXUS, ORREON

Will Drill for Artesian Water.

A meeting of the citizens of Christmas Lake valley was recently held for the purpose of organizing and completing arrangements to drill for artesian water at different points in that vicinity. The meet-ing was well attended and about \$1,000 was subscribed to defray the expense of the work. A government geologist was present and spoke encouragingly of the project. The people of Christmas Lake are very enthusiastic over the prospect of obtaining artesian water in sufficient quantity for irrigation put-poses and if the water is obtained they expect 'quite a boom, and much land will be filled on in that quarter .--- Central Oregonian.