#### THE BEND BULLETIN

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

CHARLES D. ROWE ..... EDITOR

SUBSCRIPTION RATES:

Kix months 'Invariable to advance.)

FRIDAY, OCTOBER 18, 1907.

### Another Deep Well for Agency Plains.

Drilling on a new deep well for Agency Plains began last Monday morning at the rauch of N. H. Pinkerton, three miles from Madras, the drilling being done by Bennett & Penbroke of The Dalles, says get water, and as their drill has a capacity of 2000 feet in depth, there cayed organic matter. is no doubt that this contract means n new well for Agency Plains.

The contract stipulates that \$5 per foot shall be paid if water is se cured. No water, no pay.

#### HARRIMAN GETTING BUSY.

(Continued from page 1.)

pleting the survey on the Oregon employed in the party with Engineer Breck in charge of the prelimmary work, Engineer Wolfen in charge of the permanent survey. while Mr. Griffith has supervision of the entite work. The dispatch says these men will locate the final survey through Central Oregon. They will undoubtedly work north on the line which Engineer Graham and his crew ran through these parts a little less than two years

a It is said that the Mason Construction Company has been urged that it, it must pulverize readily on to complete the grade through the marshes south of Klanfath Falls as rapidly as possible, and they are outting on additional machinery in order to do so. Other contractors are straining every nerve to get additional teams and men and get their portion of the grading finished.

#### OPPOSE NEW RULES.

(Continued from page 1.)

land board have suspended the rules until Oct. 29 and it is said that they will never be adopted. Another good work was done by these men. The board were prevailed upon to adopt a rule to govern their further deliberations whereby no proposed rule touching on irrigation matters will hereafter be adopted until copies of it have been submitted both to 'the settlers and the irrigation company officials for criticism.

### For Sale.

Hardy, acclimated and well root-

Blackberries-Lawton, Mersereau, and Rathburn.

Currants-Red Dutch, and White

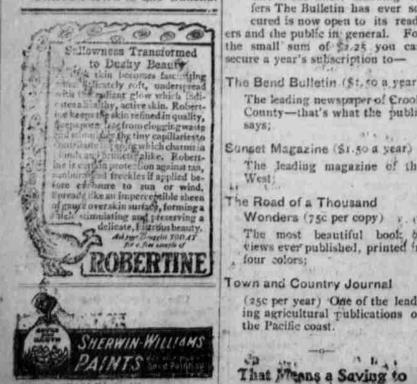
Logan Berries.

Raspberries-Cumberland (black pairs the speed of the climber. The good farmer."-Ex. cap), Cuthbert (red), and Golden Oneen (yellow).

Strawberries-Clark's Seedling, the famous Hood River. For prices, etc. address,

L. D. Wiest, Bend, Oregon.

There's NEWS in The Bulletin.



FOR SALE BY E. A. SATHER.

# Problems That Confront The Irrigator.

Humus in the Soil.

In the agricultural literature of today we often see the word "humus" and it may be of interest to learn rung to rung. what is meant by this term. The farmer of this state should be interested in learning what this impertant soil constituent does when in the soil, and how it may be kept at its present concentration.

of plants, which can be recognized us such, while other parts of the plant have decayed to such an extent that they have lost their plant such great importance, one should structure, and have undergone a the Pioneer. They have no limit chemical change. This latter form the soil as we find in the virgin as to depth, but have a contract to of organic matter is called humus; soil. or in other words, humus is de-

seen formed by the natural vegetation growing year after year and dying down, later becoming incorporated with the soil. Plant roots dso play an important part in the inches and a great number of these and in this way form humus. When comes but a little lower than the Eastern. There are about 30 men one realizes how the humus has Creator in the creation of soils. To the humus content of the arid soils of America would be low as come the fertility of your siready fertile pared with that of the soils in hu-soils, see to it that the supply of mid regions. In the latter parts, bumus is maintained." This can pared with that of the soils in huvegetation has grown luxuriantly, while in the former it was sparse and scrubby.

Having learned in a general way

what humus is, we shall now con-

sider what effect it has upon the soil. Every farmer understands that a soil, in order to be in a good state of tilth, must be granular; being worked. At the Illinois experiment station it was found that soils comparatively rich in humus, crumbled on drying, after being wet and frozen, while soils poor in so that but one car of corn grows humus broke up into hard lumps like an adobe. Besides improving curse."—J. R. Greaves, in Descret the tilth of soil, humus increases its Farmer. water holding capacity. The humus makes the soil more like a sponge, filling in between the soil particles and keeping the moisture from percolating through the soil; and also land. Two plats were taken; one rain. In the soil containing a large ladder, between each rung of which things than anybody I ever met. there is some obstacle which im-

Much Good Reading

West;

four colors;

the Pacific coast.

at Very Litttle Cost ....

Wonders (75c per copy) v. 4

(25c per year) 'One of the lending agricultural publications of

That Means a Saving to

You of \$1.75

I own and Country Journal

water uses the soil particles much in the same way as a man uses a ladder; it passes from grain to grain just as the man would pass from

The humus containing soil is warmer than that having no humus. In some experiments it is as much as five degrees warmer. When it is remembered that the nitrification of the soil is carried on more rapidly at temperatures of from 90 to In most soils one may see parts 100 degrees than at a lower temperature, it is seen that this is of no slight importance.

Since the humus of the soil is of strive to keep at least as much in The way to do this is to return to the land all the manure produced on the land. The progressive The humas of the virgin soil has farmer no more allows the manure to waste than he wastes his butter, eggs or any other farm products. This soil humus is of so much importance that we can say with W. B. Sherlock: "In short get humus formation of humus. They pene- branded on your mind. The man trate the soil from ten to eighteen who understands the importance of humus and sets about to increase die each year and slowly decay, the supply of humus in the soil bebeen formed, it is easy to see that the western and southwestern farmer let me say if you would maintain well be said to all farmers, see that your soil is in as good a condition for your children as it was when you obtained it. Do not be always taking from it and giving nothing in return. For as sure as you do. the day will come when no more can be taken, and the soil will be statement of Prof. Hopkins is true: "If he who makes two blades of grass grow where but one grew before is a public benefactor, then be who reduces the fertility of the soil

A Real Cracking Good Farmer. I once asked a farm hand how his employer succeeded in doing so well when he only worked to hours holding the moisture from escaping a day. "It's all in the manageby means of evaporation. This is ment. I think he is the best manvery well illustrated by an experi- ager I ever saw. The work goes ment which was carried on in Eng- on as steady as a clock on this place. There seems to be no rush was kept with a large per cent of at any time, but I know that I am humus; the other with a very small doing better work and more of it on per cent. Otherwise the two plats this farm than I ever did in my were treated the same. Determina- life. He has every implement fixed tions of the water contents of the to do the best work it can do, and I two soils were made after a heavy | tell you it is a great satisfaction to work with them. Then he is the per cent of humus there was 60.2 best stock feeder I know. He feeds per cent of moisture, while in the just enough to keep them even. other there was 29.9 per cent. Be- They are not as fat as butter in sides having more water, just after winter and poor as crows in sumthe rain, the soil rich in humus mer. When at work they have would hold the water for a greater full feed, and when they stop the length of time. The humus con- feed is cut down at once. He seems taining soil may be compared to a to have more sense about these

### Of Practical Interest to Women.

Our regular writer on fashions dis Corner Drug Store. cusses in the November number of the New Idea Woman's Magnaine the subject of fall and winter suits, giving an One of the finest clubbing ofaccount of the materials, colors and fers The Bulletin has ever setriminings in this important department cured is now open to its readof dress which will be in vogue during the small sum of \$2.25 you can secure a year's subscription to—

The Bend Bulletin (\$1,50 a year)

The leading newspaper of Crook County—that's what the public planer fun for the public planer fun for the planer fun for the public planer fun for the make giving pies and tarts, the turkey, and the day after, which tells of the use of left-overs when the great feast has come and gone, will make her burdens less. Those who entertain will find "After-planer fun for Thanksgiving Day." "A ers and the public in general. For County-that's what the public Dinner Fun for Thankagiving Day," "A Progressive Marble Contest," "A Bride's Party," and some "Stunts," brimfal of suggestions, "How to Mannee Parlor Lectures" contains much progressial all, vice toward a successive vocation, and the The leading magazine of the "New Education in Music" gives an in-leresting outline of work for a social club. Our regular departments, which overy reader looks forward to from month to month, sie unusually good for The most beautiful book of November. The Bend Bulletin and the New Idea tiews ever published, printed in Woman's Magazine, both one year for

#### only \$1.75. Juniper Wood Shipped East.

A. H. Lippman is very busy getthig out to,000 pieces of juniper to be used for the manufacture of novelties such as combs, backs of brushes, etc., for a factory in Hoboken, New Jersey .- Journal.

Don't forget to substribe for The

# New Blacksmith Shop ....

I have just recently opened a shop in Bend and am prepared to do all kinds of

Horse Shoeing, Wagon and Plow Work and General Blacksmithing

> Every piece of work that leaves the shop is guaranteed to be first-class.

I solicit a share of your pat-

JAMES McELROY.



## When You Paint

buildings, inside or outside, if you desire the very best results at the least expense you should use

THE SHERWIN - WILLIAMS PAINT

> Call for color cards

### E. A. SATHER

A Full Line of Groceries, Dry nonproductive. I believe that the Goods and Hardware always on

m

# The Central Oregon Banking @ Trust Company

INCORPORATED 1904 Capital \$25,000.00

Transacts a General Banking Business.

Acts as Administrator, Executor or Trustee of Estates

Issues Drafts and Bank Money Orders on all Foreign

Interest on Time Deposits

Safe Deposit Boxes. Fire Insurance.

John Steldt, President J. E. Sawhill, Vice-President and BEND. · · OREGON- (

Step in and examine the new line of cutlery just gotten in by the

# THE CROOK COUNTY FAIR

The CENTRAL OREGON LIVE STOCK AND AGRICULTURAL ASSOCIATION has postponed the dates of its fair to be held at Prineville, from Oct. 15-16-17-18-19, '07 to

Oct. 24-25-26-28-29, '07

Five Big Days ---- Remember the Change of Dates

# Fine Races Big Purses

Numerous Exhibits from all Parts of Crook County

The Biggest Fair Ever Held in Central Oregon. You Cannot Afford to Miss It.

REMEMBER THE DATES:

24-5-6-8-9, 1907

## C. S. BENSON,

ATTORNEY AT LAW OFFICE IN BANK BUILDING, BEND, OREGON.

W. P. MYERS Land and Irrigation Lawyer

LAIDLAW. OREGON Practice in all Courts and Departments

U. C. COE, M. D. Physician and Surgeon

OFFICE OVER BANK All Bigbt Telephone Connection DAY TELEPHONE NO. 21 OREGON

DR. I. L. SCOFIELD DENTIST

OREGON

Office in Drug Store on Wall Street
Office Hours, 92, 31, to 4 p. 31.
Office Phone No. 39 - Residence Phone No.

M. V. TURLEY, M. D. Physician and Surgeon OFFICE OVER CORNER DRUG STORE.

BEND, OREGON . J. H. HANER,

ABSTRACTER of TITLES

NOTARY PUBLIC Fire Insurance, Life Insurance, Surety Bonds Real Betale, Conveyancing PRINEVILLE.

## THE First National Bank

of Prineville.

Capital, Surplus and Undivided Profits, \$100,000.00

Vice Presiden Coakle Venerant Cashin

E. C. PARK Importer and Breeder of

HIGH GRADE

Poland China Hogs Black Langshan Chickens Young Stock for Sale.

REDMOND. OREGON



Scientific American. MUNN & Co. 36 10 roadway. New York

# **FARMERS READ THE**

WEEKLY OREGONIAN OF PORTLAND

For the general news of the World also for information about how to obtain the best results in cultivating the soil, Stock Raising, Fruit Growing etc. You can secure this excellent paper by

> Clubbing with The Bulletin. BOTH PAPERE, ONE YEAR, FOR ONLY

