It requires but very little thinking, after one has seen the natural resources surrounding Bend, to see how and why Bend will become one of the most prominent manufacturing cities in the Northwest; neither does it require much thinking, after one has seen and studied the map of Bend, to see how and why

RIVERSIDE ADDITION

must and will become the "factory district" of Bend. Already it is the most practicable and desirable, owing to its advantages which are necessary to factories of any kind.

----Some of these advantages lie in the fact that Riverside is cut in two by the Railroad, making a great number of lots running along the Railroad right of way; while any of the others can be reached easily and cheaply by short spurs from the main line, thus enabling one to load or unload directly from his own platform into the car. Then a great number of lots lie right on the bank of the Deschutes River, which advantage is too obvious to recount; but the greatest advantage of all lies in the fact that to any of these lots we can deliver the cheapest power in Bend, for they average but three ordinary city blocks, or 1800 feet from Bend's largest power plant now building, the dam alone to cost \$150,000, which will be ready to deliver power this winter; and the farthest lot from power is only three city blocks, 1800 feet from the Union Depot.

...Write for our new illustrated folder and turther information or call and be shown over the ground.

---Prices range from \$100 to \$500. Terms, \$10 down and \$10 per month. A liberal discount for cash.



BEND PARK COMPANY

860 Empire Bldg., SEATTLE, WASH.

BEND, OREGON

FACTORS AFFECTING IRRIGATION

Prof. Powers Points Out the Way to Obtain the Most Economical Returns from Watering Crops Central Oregon.

By W. L. POWERS. (Supt. Demonstration Farms.)

inches required to irrigate an acre evaporation. The rains which come

The duty of water is increasing as less plentiful.

(1) The duty of water varies for the different crops. With the rain- water. It has been found that furfall the past season, which is three row irrigation saves about one-fifth to four inches above normal, the over the flooding method and deep most economical production of alfalfa was secured on the Demonstra- shallow ones. of water. The most economical use planting affects the water requirewith clover was about twenty-four ments. With thin deep planting, inches, on potatoes about four inches less moisture is needed. and on barley five inches.

(2) The character of soil and subsoil. The finer and deeper the soil is, the larger its capacity to completely occupied. Planting in store water and the less frequency of irrigation is required; while the sandy soil requires more frequent irrigation and is liable to suffer loss from percolation below the reach of

The duty or service of water is an tion of rainfall modifies the irrigaexpression of the amount of water tion requirement and the distribuused to irrigate a given area of crop tion is most important. Irrigation maturity. It is important to should simply supplement rainfall. irrigator. This is one of the most (1) The number of acres a second slow one inch rain is equivalent to remain with the water constantly. foot will irrigate during a growing about twice as much irrigation for season; (2) The number of acre it comes when there is little or no

of crops to maturity. The latter of in summer are apt to crust the surthese is the most absolute basis and face and may do more harm than it is easily understood by the farmer, good unless it is possible to cultivate.

(4) Temperature and other cliwater becomes more valuable and matic conditions effect the duty of water to a large extent for the Factors affecting the duty of amount of evaporation depends on weather conditions after irrigation. (5) The method of applying the

(6) The method and rate of shade produced by the plant affects evaporation and it is usually more economical to have the land completely occupied. Planting in and should be largely practiced to permit moisture conserving tillage.

(7) Kind of cultivation. order to be most effective, cultiva-tion must be given promptly after irrigation, as soon as the soil is dry (3) The amount and distribu- enough to crumble. Level cultiva-

(8) The skill and economy of the know how much water is needed per It is the June rain which makes the important factors. Careless use of acre and when needed to secure the crop. The June rainfall was slight- irrigation water results in a greater most economical returns per unit of ly above normal and the rainfall for loss than is experienced in any other water used. There are two common May was about one and one-fifth way. In irrigating a cultivated crop ways of expressing the duty of water: inches above normal this year. A like the potato, the irrigator should

Time, amount, and frequency of irrigation. A more economical use of water is secured where it is applied before the crop is checked in its growth by drought. The best amount for any given soil and crop is the quantity necessary to raise the moisture content of the soil strata from the wilting point to the excess point throughout the root Sandier soils will have lower capacity for usuable moisture and must receive frequent light irrigations which increases the evaporation loss and cost of application. In working with sandy soils and heavy solls under the same climatic conditions the writer has found it necessary to use some 50 per cent more water in the sandy soils.

(10) The method of purchase The best plan for the small irrigator is to practice rotation in the use of water, and get a large enough head to secure even and rapid distribution. Higher duty is obtained by this method and it is also obtained where the irrigator pays in proportion to the actual

amount of water used. There are many other factors af-fecting the duty of water, such as the date of planting and maturity and the fertility of the land. There is a greater loss in new ditches and dry virgin soil requires more water

The irrigator in this district should suit within six weeks from the date use nothing above the least amount of the first publication of this sumof water that will give the most mons, and if you fall to appear and economical returns and the greatest answer for want thereof the Plaintin profit per acre inch, irrigating where ever possible by the furrow method and following irrigation where ever for judgment against you and each practicable by practicable by cultivation. Anything of you for the sum of \$719.20 with above the least economical amount interest thereon at the rate of 10 per will produce unfavorable soil tem- cont per annum from April 17, 1912, peratures; bad physical condition of until paid, and for the costs and dissoil: leaching of fertility, and accu- bursements of this action. mulation of alkall.

easen the amount of water required and action. and lead to a crop rotation to main-tain and build up the soil fertility, ber 25, 1912.

RECORD OF TRANSFERS .

Deeds and Patents Filed Recently

With County Clerk at Prineville

8-20-13. \$1200.

Bend. \$10.

24, Bend. \$1.

Bend. \$2000.

20-16-11. \$1.

se ¼ 28-18-12. \$1.

State to Jas. D. Honeyman, se 14

W. J. McG'llvray to Mrs. M. A. Brook, it 6, blk 9, North Add. to Bend. \$4509. H. 8. Copthorne to Mrs. M. A.

Brook, It 6, blk 9, North Add, to

field, it 12, bik 32, Metolius, \$700.

C. L. Gist to Hettie L. Gist, it 2, blk 2, Sisters. \$1.
B. F. Allen to G. M. Cornett 1/4

B. F. Allen to G. M. Cornett by int. in e by sw b, sw b, sw b, 26-15-14 e by se b, 10; sw b, sw b, 12-16-14; se b, sw b, 10; sw b, sw b, 12-16-14; sw b, sw b, 10; sw b, sw b,

Thomas Demers to Trudeau T. De-

mers, sw 14 nw 14 27; se 14 ne 14. e 14

Wm. Johnson to H. C. Meisel, eld nw ld, eld re ld 14-16-12. \$10. D. E. Hunter Realty Co. to John

s. Parminter, it 10, replat of blk 4,

Wm. P. Swope to T. J. Seufert, e14 36-21-14. \$1. The Bend Co. to D. T. Carmody, lts 11-12, blk 20, Center Add. to

Bend. \$1. J. W. Baker to A. N. Baker, sw 14

Frederick A. Kribs to Walter A.

Rogers, e 1/2 sw 1/4. lts 3-4, 20-16-11. Omar C. Claypool to Harry W.

Haydem, w 1/4 aw 1/4, w 1/4 nw 1/4 14-15-

Patents-Peter H. Sandvig. e 1/2 nw%, sw% nw%, nw% sw% 13-16-

23-24, blk 19, Laidlaw. \$1

Inland Empire Co. to C. M. Red-

E. B. James to Bessie Fisher, Ita

against you in the above entitled

This summons is served upon you In time, the duty of water will be by publication by authority of an fixed scientifically instead of by order of the Honorable H. C. Ellis, guess, and will be based on the Judge of the County Court of the character of the soil and the crop. State of Oregon for the County of the average farmer in a district Crook. Said order is dated the 24th will keep 25 or 30 per cent of his day of September, 1912, and is duly ranch in cultivated crops it would recorded and entered in said Court

Date of first publication Septem-

VERNON A. FORBES, Attorney for Plaintiff.

Don't wait until holiday time for those photo enlargements, or set of album prints.

Township blanks, neatly bound in ooks, 25 cents at The Bulletin.

> New PALACE MARKET

Charles Boyd, Prop.

Vegetables, etc.

Bend Machine Shop

All Kinds of Saw Mill and Farming

R-E-P-A-I-R-S

We Carry a Large Stock of

Auto Repairs and Supplies

Wall St., next to Opera House

We Deliver the Goods BUS AND DRAY LINE

LIGHT AND HEAVY LIVERY.

Hay, Barley, Oats, Wheat and Bran at lowest prices. The Largest Barn in Central Oregon.

WENANDY LIVERY CO.

Bend, Oregon.

J. H. WENANDY

LON L. FOX

Bend and Prineville Tennis Players Meet Sunday.

The informal tennis match between Bend and Prineville players that took place Sunday at Prineville resulted in an even break, each team winning two of the four matches

The first match was men's doubles, S. Hudson and J. P. Keyes of Bend vs. J. R. Stinson and J. H. Rosenberg, and resulted in a win for the Princyllle men, 3-6, 6-0, 6-1. Then Mr. and Mrs. Putnam defeated R. L. Brewster and Miss Baldwin, 4-6, 6-4, 6-1, C. B. Hudson won from L. M. Bechtell in singles, 6-2, 1-6, 6-3. G. P. Putnam was beaten by Henry McCall, 1-6, 6-2, 6-1. The singles match that J. P. Keyes was to have played was called off, owing to the length of time required to play off the matches, most of which proved very close. A return tournament in Bend will be arranged later.

SUMMONS.

In the Circuit Court of the State of Oregon, for the County of Crook. The Bend Company, a corporation, Plaintiff, vs. G. C. Cooper and N. A. Cooper, co-partners, doing business under the firm name and style of The Terrebonne Lumber Co., Defendants. To G. C. Cooper and N. A. Cooper

above named Defendants: In the name of the State of Ore gon you are hereby required to appear and answer the complaint fied

Here is a Soap

that reduces

wash board

rubbing to a

minimum,

without in-

jury to the

fabric.

BERT SHUEY

CASH

GROCER

ORLGON

aundry Soap

Under New Management.

THE PILOT BUTTE INN BEND'S LEADING HOTEL

Is now in charge of J. F. Taggart & Co. First Class Service and the Comfort of Guests, is Our Motto. FREE AUTO Between Hotel and Depot.

SEPARATORS

THE SHARPLESS TUBULAR THE BEST Separator made. Easy to clean, light to run, and it's the CLEANEST SKIMMER MADE. We have them in stock. COME AND SEE THEM.

MOWERS AND HAY RAKES.

THE CELEBRATED DEERING! LINE. Light, strong and durable. For sale by

To STORE OF QUALITY S. C. CALDWELL, Mgr.

Before You Let the Contract

for that new building, consider these facts about brick.

In building with all other material no allowance is made for doors, windows and other openings.

With brick you can make an allowence of 10 to 25 per cent.

With lumber 15 to 25 per cent is added for sizing, laps, etc. With brick it is unnecessary.

With all other material 5 to 10 per cent added for waste, such as cutting, fitting, knots, shakes, etc. With brick there is absolutely no waste.

When a building is finished, built with any other material, there is always a lot of waste to haul away.

With brick, if you have any left we will take them off your hands at the full price you paid for them.

There is a hundred other reasons why you should build with brick.

BEND BRICK & LUMBER CO.

Everything on the Market at the Right Time and at Right Prices.



L. B. MISENER CASH GROCERY.

WHOLESALE AND RETAIL.

TELEPHONE.

Bend, Oregon.