HOW TO REMIT.

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

Stage and Mail Schedule.

AREAVE AT BEND.

From Shaniko via Primedile 7 p. m. daily From Lakeview and Silver Lake Jenor Tunislo Tiers., There and Sat. 215 p. m. From Laidlaw daily except Sunday 2 p. n. in LEAVE BEND.

For Shantho via Frinceville 6 a. m. daily
For Lakeview and Silver Lake
For Fumalo Ture. Thurs, upil Sat
For Lakitaw daily except Sunday

10 8 m.

FORT OFFICE HOURS—Week days, \$ a. m. to \$1 m. sundays, from 11 m. m. to \$1 m. and ha hour after arrival of all made from rathese reaching Bend before \$ p. m.

THERPHOON OFFICE HOURS—Week days, from your, m. to use p. m. Sundays and holidays from \$100 m. m. to 12 moon, and from \$500 p. m. to

FRIDAY, AUGUST 10, 1906

Evidently Mr. J. O. Johnston intends to capture a share of that export apple trade that the Hood River people have been boasting about this season. His decision to plant 500 acres to nothing but export apples-apples of exceptional keep ing qualities-means much for the future reputation of the upper Deschutes valley as a fruit country. Now let other settlers follow Mr. Tohnston's example by planting only first-class commercial fruit.

The good record made by the Bend country last year as a farming country is being duplicated this season with even better results. The skeptical are being converted when Simmons has a field of oats that promises about 65 bushels to the and the week was considerably then said to "run out" the alfalfa. acre, and there are many other cooler than the preceding one. In fields hereabouts that will yield a southern Oregon the mornings handsome return. One man said: were usually cool, and the after-"I like to see the crops grow in this noon temperature averaged nearly country. I did not believe they the counties east of the Cascade turned to conviction. Crops of all day temperature averaged slightly kinds are yielding abundantly." over a degree above normal. The ly used furrow method And the half has not yet been told prevailing winds were northwest-

The two boys who were "out for a good time" and who in having it killed a harmless old tinker at Lath- Experienced Fruit Grower Commends that have been producing hay or should be provided with boxes or area of his farm certain broad fields am last Sunday, ere now tasting the bitterness of their folly. The cries of the dying old man haunt letter from the publisher of "Better them night and day, and the awful Fruit," a magazine devoted to fruit fear of the murderer clutches them the importance of planting nothing the distributing ditches, or laterals, and so on down the ditch until the sidering the worth of less favorable in the distributing ditches, or laterals, and so on down the ditch until the sidering the worth of less favorable in the distributing di with all its terror. Merely youths, but the best fruit stock-stock that by means of shallow furrows from water is all in use. they now see before them a life of produces fruit that demands the two to four inches deep and from PROPER PREPARATION OF LAND. enforced confinement in the peni. highest prices. Mr. Wiest laid tentiary. Whether the court, con- stress on this same point in his sidering their youth and evident letter reads: repentance, will impose a lenient sentence remains to be seen. It is Mr. L. D. Wiest, Bend, Oregon - Dear said that dime novels exerted a Sir. We have read with great interest permicions influence on these boys. the Irrigator' in The halletin of July. They were travelling over the and wish to assure you that you have the fruit business in the West country, away from home and parents, and were evidently infected with the insidious desire for a lawless life. The utter foolishness of hoping that you may find tune to look such a life is seldom seen by many through its communicating carefully and equently baked by the sun is a theoyouths until they have tried it and experienced its ultimate bitterness. River has made great progress in the selecting of varieties, packing and marketing of their traits and through our marketing of their traits and through our and to experience the power of law.

Joe Howard's Change of Base.

Joe Howard, the well-known cattle man of Central Oregon, was a guest at the Grand hotel in San Francisco at the time of the earth- Buy on Grenit! quake. The bed in which he was sleeping was thrown across the room and he awoke in time to dodge a dresser coming from the other direction. He escaped injury and then walked the streets several days, unable to get out of town or communicate with his family in Oregon. Then he put some money into property, and now he has 16 temporary buildings in the business district, which rent at business district, which rent at Govurtz Furniture Company high figures, and he is building

THE BEND BULLETIN more. He writes that there is more money in that business just now than in Oregon cattle and he s going extensively into it. Mrs. Howard is at Corvallis looking after one son who is still at the state agricultural college, from which institution all the other children have been graduated.

Watch Us Grow in Impudence.

Harbor.

And Still They Come.

TACOMA, Wash., Aug. 6.—Arti- gated four or five times. eles of incorporation were filed today by J. C. Donnelly and Arvid Rydstrom for the Southern Extension Railway Company to build a railroad from a point on the left ank of the Columbia river, near the mouth of the Deschutes river, through the valley of that river to a point near Madras, thence to that it does not hold water well and Bend, Or., with a branch to Prineville, Or. The capitalization is \$1,250,000. Considerable speculation exists as to the parties behind the move. Donnelly is a wellknown hotel man here, and Rydstrom is a prominent contractor .-Portland Telegram.

Oregon Weather.

PORTLAND, Aug. 7. - The drought continues in all parts of the state, the only precipitations reported being light showers in someof the coast countries and in the Power river valley in the Blue mountains. In the Willamette three degrees above normal. In

HAS THE RIGHT IDEA.

L. D. Wiest's Recent Article.

L. D. Wiest is in receipt of a culture, in which they emphasize water is carried over the land from the flow will fill the desired furrows gether overlooking or not duly conrecent article in The Bulletin. The

Hoon River, Oregon, Aug. 3, 1906.-

the contents to the frest groscers. Hood tion over flooding, but the differgrowers in other localities to do likewise, as we feel that the more better on the market the better the prices will be for everylasty. Yours truly,

BETTER PREST PUBLISHESS CO.

this \$60 Machine for \$25



173-175 First St., PORTLAND, OR.

Problems That Confront The Irrigator.

There is a little town over on the boldt river valley the crop is irri- is clear, then, that the amount of On other farms ordinary railroad lesert called Bend. It has a gated from one to eight times; that water one man can handle has its rails and drags of homemade deibrary association and a library, the lands receiving one, two and limit. After the first irrigation this sign are used. The impudence of some of these upstarts in putting on airs to get ahead of older towns like those on the same yields of hay, or and the degree of economy practically the same yields of hay, or and the degree of economy practically the same yields of hay. Coos Bay is enough to make us vields greater than those obtained ticed. Water should not be allowed made to flow. Judging the true highest yields were from lands irri. should it be allowed to stand long most experienced are often deceived

mon practice is to give affalfa to or alfalfa a stream of about 2.5 cubic tion. Where possible, every sys-12 irrigations, though some men ir lect per second was generally used tem of laterals should be laid out rigate less and others as many as The field was irrigated three times with an engineer's level and a con-22 times. The character of the soil for each of the two hay crops tour map made of the whole area. will in many cases account for dif- and once for the nasture crop that In lieu of the services of a surveyferences in the number of irrigations followed. The first irrigation was or the irrigator may lay out his own required by a crop. Much of the May 15. The cost of irrigation for laterals, using one of the many valley soil is so gravelly and porons the season was about \$2 per acre. therefore requires more frequent irrigation than a closer, more com-

The character of the land upon the station form (experiment station) is such as to indicate that it would require the maximum; amount of water to grow a crop, and here good results were had from seven irrigations. In fact, an 48 bushels per acre and oats from originally poor stand of alfalfa has been much improved by using less above the average results of comwater than was used by the former mon practice. The first irrigation owner of the land.

TOO MUCH WATER.

Mr. Stannard's report suggests valley and coast counties the fore- what the station experience indi- most exclusively in the irrigation of shares were rounded instead of bemoons were generally cool and cates, that an excessive use of wat- grain. Here it is more essential ing drawn to the usual point. cloudy and the afternoons warm or is not only unnecessary, but is that the space between the furrows Above the moldboards of the plows and clear. In the remaining por- detrimental to the crop. Alfalfa should not be flooded than in the and riveted to them were placed the tions of the state, both the morn- is a plant that thrives best in warm case of alfalfa, because the young right and left moldboards of old alings and afternoons were generally soil and atmosphere. The water of grain does not always make sufficlear. There has been an increase mountain streams is always cold. clear growth to shade the ground the lower moldboards were spread ready for eating, contains an average in the number of forest fires and The too early and too frequent ap- before the first irrigation. Last wider than in the ordinary plow the atmosphere, in consequence, is plications of water keep the soil spring the grain upon the station becoming somewhat smoky, al- cold and thus retard the growth of farm practically covered the ground they stand before waving grain and though, except in the immediate the plant. These conditions that when first watered. After the grain green alfalfa fields. George L. neighborhood of the fires, the check the growth of alfalfa stimus is sufficiently grown to be in dansmoke is not dense. The mean late the growth of the less desirable ger of lodging, it should not be irtemperature averaged about normal, shallow-rooted grasses, which are rigated when the wind blows.

TWO METHODS OF BERIGATING.

flooded by means of parallel ditches ditch, these intervals to be deter- saving of money and labor to run ever would, but my doubt has been mountains both the night and the extending across the field 40 or 60 mined by the number of furrows the main lateral along the highest feet apart, and the more extensive. that can be filled by the head of portion of the farm, in order to

> 20 to 40 inches apart. These furrows are generally made at right angles to the head ditch, but often a more desirable fall is secured by running them at a different angle. The aim is usually to lay out the furrows so as to secure the least fall. In irrigating, the water must; run through the farrows until the spaces between them are thoroughly soaked, and this is where the apparent waste of water comes in. The fact that the land between the furrows is not flooded and subseence in crop yield does not always cutting and hanling the crop.

HOMEHADE MACHINERY.

Pointers for Alfalfa Growers. | because it is necessary to see that ing, after which the use of a grader Alfalfa is grown in Nevada with every furrow is clear, that the wat- or drag will reduce the humps and from one to 22 irrigations in a sea-from the bead ditch on the one side of field son. It is stated that in the Hum- to the waste ditch on the other. It common road scrapers are used en and eight times; and that the has been thoroughly soaked, nor eye is very uncertain; for even the on the field. On the station farm as to whether the surface of the In the Truckee valley the come in the irrigation of a 33-acre field of land rises or falls in a given direc-

GRAIN.

There seems to be the same exessive use of water in the growing of grain as with alfalfa. It is easy to overirrigate grain when it is young. The results upon the station farm the past season were fairly satisfactory from three and four irrigations. Wheat yielded 45 and 65 to 75 bushels per acre-yields was May 27, before which many fields in the valley had been watered two or three times.

The furrow method is used al-

it is best to run a smaller ditch or Two methods are used in the furrow parallel with the head ditch, water in use. Making and break-command the greatest irrigable area. The furrow method finds favor ing dams in the head ditch and This sounds so reasonable it seems the morning." New York Press. because it makes possible the irri- making and closing breaks in its scarcely necessary to mention it; gation of land that could not be bank are not in keeping with the yet, unfortunately many an inexflooded on account of its rough and best irrigation practice. In perma- perienced irrigator upon taking up uneven character. Many fields nently laid-out fields the ditches a new tract of land may see in the pasture for years have never been with "back flows" for the control of gently sloping ground so pleasplowed because they are so stony, of the water. When water is first ing to the eye that his very first immany more might profitably be lev. turned onto the land the flow from pulse is to run a lateral from the eled and irrigated by a less waster the first box should be so regulated nearest point in the main canal to ful method. By this method the by raising or lowering the gate that the choicest piece of ground, alto-public land states by act of angular to state.

land and the work of preparing it be profitable to expand the cultivatfor crop is done largely in the fall ed portion of his farm and to put and early winter in the Bend re- every square foot under irrigation, gion. At the time of clearing, a then, instead of supplying the fields proper system of ditches and later- he wishes to water from his main claims in this main claims in this main of before the said out als should be planned. Conse-ditch (perhaps passing nearby), he day of octor quently any suggestions along this discovers the necessity of going to line are now timely for the man his original source of supply and NOTICE FOR PUBLICATION.

humps and depressions the surface new main ditch large enough to was of the ground the more uniformly carry a sufficient supply for his will be made to face it a will water flow over it. The injur- whole farm, he could have simply decided as september in the could be supply decided in the sixty. of a careful parent than to suffer magazine "lietter Fruits" we wish to convenience is the necessity of havthe pangs of a guilty conscience give our experience and help fruit ing to drive over the furrous in apparent. Water settles in the low farm and proceed to reclaim whatground, waterlogging the soil and ever part he wished of the unbrokdrowning out the relant life, white on area. drowning out the plant life, while en area. an insufficient supply reaches the In Wyoming and northern Colo-The furrows are made by ma- higher elevations, leaving the crops rado many an irrigator can be found chines built for the purpose. These to burn up. When once the sur- who realizes the advantage of havmachines are not on the market, face is properly graded one man ing his laterals laid out with a surbut are usually constructed by local can apply the water to every part veyor's level, in order that when slacksmiths, directed by the ranch of a field with greater rapidity and the time comes to construct his ers themselves. Old mowing ma- effectiveness than two or three men ditches they may command the chines furnish the main parts, such can irrigate a like area where the greatest area at the least cost and as wheels, tongue, levers, seat, etc. slopes are rough and uneven. Grad- be permanent. The most emphatic In alfalfa fields the furrows are per ing should usually be done after advice given by old irrigators is, manent but need to be opened up, the laterals have been made, as it "See that your laterals are laid out or "furrowed out," every spring will be found that less grading will to the best advantage at the outset before irrigation begins, this being be required than in reducing a and that your fields are thoroughly done with the same machine used whole farm to a uniform slope. Too graded." The old adage that in making them. After refurrow- much stress can not be put upon "Work once well done is twice ing the ground is rolled. It is the importance of grading the sur- done" can be applied with no much more difficult to get the wat- face of the field between the later- stronger significance than in preer over the ground the first time in als at the outset. The improve- paring fields for irrigation .- Govthe spring than at later irrigations, ment is a permanent one, and the ernment Bulletin No. 145.

time and labor spent will be repaid many fold.

HOW TO LEVEL A FIELD. The ordinary means employed for leveling the surfaces of fields is deep plowing, followed by harrow-

types of homemade leveling devices. The average grade for field laterals should vary from one-half inch to one inch per rod, depending upon

the nature of the soil.

building laterals, and farmers have been obliged to depend upon their own ingenuity. The following device was constructed to simplify the work of excavating ditches. Two steel-beam plows, one with a right and the other with a left share. were placed side by side and their beams riveted together. The shares of the plow were spread to give the furrows a width of two feet on the but just the same I know that you've bottom. The rear ends of the falfa plows. The handles bolted to and were braced to the beams.

The beams running side by side were bent apart toward the end, aifording an opening, wide enough to insert a 4x4 inch timber two feet long, which is bolted in place and To facilitate handling the water on which the clevices are fastened.

LAYING OUT LATERALS. ground, thereby leaving excellent pieces of ground high and dry above his main lateral. When the The clearing of sagebrush from time comes in which he finds it will establish who expects to irrigate next season. building another ditch, often paral-After land has been cleared of leling his main laterals, but on brush the most important requirement is a thorough grading of the erals had been properly located, intend or many of the land to be watered. The freer from stead of being obliged to build a support of his body and to be watered. The freer from stead of being obliged to build a support of his body and the new main ditch large enough to

OUR LANGUAGE.

The Words a Man Uses and the Words

He Might Employ. How many words are possible? Starting from the four and twenty alphabetic sounds, Leibniz exculated the combinations at 620,448,701,733,230, 739,360,000. But many of these combia separate word.

Does man's stock of words grow rich er or poorer with time? M. Moncalm foresees an over higher intellectual denthey for the race in the foture. "Our fathers," he says, "did not know the thousandth part of our vocabulary, which is very coploms." Certainly the New Dictionary is a much larger work ashamed of ourselves. - Coos Bay from other lands irrigated six, sev- to run to waste after the ground slope of the ground by the naked than Johnson's, and we don't not make primitive man talked less than as M. P. store, though even he had his pulavers and congresses. But it any one were to take down the talk of an average modern undergraduate or society giel we don't if it would be found to contain more than 250 vecables, where an educated Elizabethan or Caroline would have employed several throughd: Nothing is more striking in the aid prose writers than the riels variety and Imaginative picturesqueness of their language. Not only are we looking in concrete integination and intermed to go sheld out of the beaten truck of speech, but phrases which were when first devised forelible and strong bave through long currency but their edge. No special devices are manufac-Three-fourths of the expressions we use tured and put upon the market for have ceased to be effective metaphors and become conventional and lifetess. London Saturday Review.

ALCOHOL IN BREAD.

Enough to Give One About Four Pints of Whisky a Year.

"You consume four pints of whisky a year," said the anadene chemist Now, don't be angry or shocked. I know that you're a strict tectotaler, absorbed that much alcohol. How? Well, simply by eating bread.

"It has long been known that the fer mentation of brend caused the forms tion of alcohol, but it was supposed that it passed from the dough during the process of building, Noveral seien tists have proved that bread, when of 200 per cent of alcohol to the last. You must remember that in many countries strong liquors are browns from bread. Kvass, the mild froman beer, is browed from brown broad.

"Now, if you gut 400 leaves of bread every year you must perforce have as similated twenty ounces of silcohol, which equals four plats of ree whisky.

"In ten years," concluded the amu-In faying out a system of laterals | tear chemist impressively, "you have cultivation of alfalfa-the so-called into which water is turned at con- to serve a farm of, for instance, 160 eaten ,4000 loaves of bread, and in flooding method, where the land is venient intervals from the head acres, it is important for the future that number of loaves is about 200 ounces of alcohol, or the equivalent to nineteen quarts of whisky. Think of the saturnalia you have been on fur the last ten years, and you have know enough to complain of a hig head in

Timber Land, Act of June 3, 2 NOTICE FOR PUBLICATION.

1: A. Land Office, The Bellius Grugon,

Charles H. Etteknin. of Break, pointly of Crosck, there of Croscon, has this day first in this office his become attractions No. 477), for the purchase of the really of sea (2), to see a second of the really of sea (2).

MILITARL T. SOLAR, Register.

bepartment of the laterar.
U. B. Land Office, The failles, Oregon

MICHARL T. NOLAS, RESIDER.

The undersigned will pay \$10.00 for the detection and conviction of any person who in any way willfully injures or destroys its lines in Crook County.

THE DESCRITES TELEPHONE CO.