THE BEND BULLETIN takes to support those poor

"For every man a square deal, no been very slow in coming. ess and no more."

HARLES D. ROWE EDITOR SUBSCRIPTION RATES: Eix mouth "Invariably in advance.)

FRIDAY, APRIL 26, 1907.

A SUGGESTION. 0

When President Withycombe, of the Oregon agricultural college at Corvallis, was at the Redmond fair last fall he stated that one of the leading industries of this region in the future will be the dairy busimess. That is the opinion held by many here. Therefore it will be well for the farmers of the upper Deschutes valley to gradually turn their attention to the needs of the dairying business and lay their plans accordingly.

Speaking of the wealth that comes to the farmers of Washington from dairy products, August Wolfe says in an article on the "Inland Empire of the Northwest":

thousand cows were used last year, but their products did not supply more than to per cent of the demands; in fact, competent authorities say there is immediate need for from 150,000 to 200,000 cows to supply the dairy and creamery demands of Washington alone.

"Profitable dairying in the Northwest cories with it the proving of folder."

carries with it the growing of folder stuffs, such as alfalfa, grasses and grains. flow productive the first named is may to noted, that by the ordinary process an acre of land will yill d from two to two and a half toos, while under irrigation his is doubled and trebled, and there we instance where to toos have been cut on a single acre. As alfalfa thrives in almost any kind of a soil, it is but natural to conclude that a few years will see extensive fields wherever cows or ee stock are kept."

ply increases, cows with the very licked." best strains of dairy blood in them should be brought into this country. The majority of cattle in these parts now are range or beef stock. They will always be needed. We also need good dairy breeds. It will take time to introduce large numbers of these cattle into this region, and the work should be started at once by those who have the means to undertake it.

When the time comes that there is an extensive dairy business estublished in the Eend country, then you will find more dollars in the " farmers' pockets. And it isn't too early to begin the bringing in of dairy stock now.

LET THE PROSPEROUS GIVE.

How much is it worth to you to be an American citizen? How highly do you value the privilege of living in a country that never experiences a famine and where it is commottly said too much, instead of too little, is eaten? At the present time China and Russia are passing through one of the worst famines in their histories. Thousands are dying. "Diseases, caused by lack of nourishment, are spreading among them. Children are beng sold into slavery; daughters into lives of shame. The people of hybole sections are living on a paste or dough made from grass. weeds, herbs-a vile stuff with but dittle nourishment and fruitful in breeding disease. What should prosperous America do to relieve this dire state of affairs?

It has been suggested that the ladies of Bend plan some little entertainment or social, the proceeds from which, together with contributions from those who so desired, could be forwarded to the sufferers It is an excollent idea and Bend fadies should take immediate action. It is said that \$1.00 will support a human life in the famine-Atricken districts until they harvest their next crop. How little it

wretches, and yet donations have

There are many ways to spend money, but few of them will be of more immediate or lasting benefit Irrigation in Fruit Growing the season in good condition for the than will the money that is given to keep life in those down-trodden, hungry and suffering beings in a foreign land. Should not Bend do its share-and more-to relieve this suffering? What is your American citizenship worth to you?

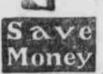
to make numerous inquiries regard-|columns, it is possible to insure secret of profit in the orchard; first, ing the condition of fall sown the deciduous tree all the moisture in making fine, marketable fruit grain. Every report so far ob- it needs for months by free winter second, in laying the foundation tained states that fall sown crops just as a heavy winter rainfall year. never looked better and that they never looked better and that they could do it. There has been abund-are in excellent condition. In fact, ant evidence ever since the beginthere is promise of a bumper yield ning of irrigation by Americans in is found advisable where the rain from this grain. Many of the farm-lowed by good summer cultivation, scant, so that there may be too ers hereabout firmly believe that all will be effective if the soil is retengrain, the nature of which permits tive enough. Recent experiments tree during the long, hot autumn, it, should be sowed in the fall, in Arizona has approved for that and where prolonged activity of thus securing the benefit of the region the teachings of experience the tree does not encounter killing

"Dairying, which netted the farmers of the state of Washington \$0,500,000 a people there are determined to lead in active growth. For winter irriverage, is yet in its infancy. Sixty thousand cows were used last year, but in to that burg by the nose both sufficiently long to allow deep the Corvallis & Eastern and Oregon Trunk Line railroads. They have simply got to build into Laidlaw whether they want to or not. that wins. If people do not know

Those Prineville chaps may It has been amply demonstrated belief that they took the nerve out that the Bend country can grow of the Bend boys. Wait until the the spring growth, and thereafter winterkilling. These lessons of good alfalfa. Acres upon acres of next game and they will learn that at intervals of about a month dur-experience are akin to others preit should be sowed as rapidly as the Bend aggregation is composed ing the whole summer. Usually, viously cited-that adequate irri possible. And as the fodder sup- of the stuff that "won't stay however, there is natural moisture gation is of inestimable value and

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Problems That Confront The Irrigator.

From Farmers' Bulletin No. 110, issued by the U.S. Department of Agriculture.

WINTER IRRIGATION.

region, where there is proper charpenetration of the moisture is

SUMMER TRRIGATION.

Well, that is the kind of spirit gin during the growing season de- summer cultivation must stop soonthat Laidlaw is on the map it won't ter and depth of the soil and the gree of dryness in the soil shall be the fault of the development The same considerations already for the season and prepare for think they gave the Bend school ness of application is merely a de- to guard the trees against injury team an awful drubbing, but they gree of that need. Under some by evaporation in dry winter atmustn't fool themselves with the conditions, such as exceptional mosphere. It has been demonstratthe driest regions, and irrigation is ous. first called for to give proper size and quality to the early ripening varieties, and from that on at inter- trees which are by their nature revals for the maintenance of growth, stricted to the semitropical regions. the perfection of later varieties, etc. This is in a region in which tull most conspicuous instances. They irrigation is required.

employed as a supplement to rain- few mouths. The high summer fall in other regions where the heat which ripens Northern fruits need of irrigation for deciduous brings growth and development to fruit trees was formerly scouted. the citrus fruit, but the wonderful It varies in method according to chemistry of the ripening process is local moisture needs.

is given in a single application of tree has no long dormant season. about 3 scre-inches per acre after but a number of short naps at inthe early ripening fruits have tervals, its moisture supply must be reached good size and just before continuous and the irrigator must they begin the final swell which be ever ready to supplement the circulation of the tree in time to necessary all through the autumn materially aid in the attainment of months and, on occassion, even insatisfactory size. In some cases to the winter if the rains fall. Size, this not only does this but enables quality, and all the characteristics the tree to hold its foliage and of a perfect fruit, in winter fruits growth the balance of the season. as well as in summer fruits, are all

practiced where the moisture from ture, and the longer the growing rainfall is enough to properly season of the fruit, the more water mature the earlier fruits, but the needed, as a rifle. Even the olive effort so far exhausts available which stands at the head for moisture that the tree would after. drought resistance, will shrink and wards fail of growth enough to fill shrivel its ripening fruit until its out fruit buds for the following moisture needs are met. The year One irrigation at that time, amount of water required and the accompanied by a summer pruning time of its application depend, of excessive wood growth, has a then, upon the nature of the tendency to develop fruit spurs, growth, as well as upon the nature maintain verdure and leaf action, of the soil which supports it. and bring the tree to the close of

cation is also about 3 acre-inches of water per acre.

The above are used singly when either one or the the other seems to be all that the tree requires. Where In the warmer parts of the arid the need is apparently greater the two are given. This does not seem acter and sufficient depth of soil to to be a deep indulgence in irrigaconstitute the great subsoil feser- tion, and it is not, but it is great The Bulletin has made it a point voir previously described in these from the fact that it holds the irrigation which fills this reservoir for the same result the following

PALL IRRIGATION.

Fall irrigation for deciduous trees great drying of the tissues of the fall and winter moisture. Each year's experience seems to prove them correct in their theory.

The control of t Judging from the actions of the temperature which would certainly mancy. In regions of greater cold, sufficiently long to allow deep usually be carefully guarded against, because it is very necessary that the tree should become dormant early and fully harden its When the use of water shall be new wood. For the same reason, pends, of course, upon the character toward the North, so that a deneeds of the particular growth warn the tree to complete its work arged to determine whether irrigal frosts. On the other hand, at tion is needed at all have a bearing some interior Northern points it is upon this question, because earli- necessary to use late fall irrigation drought in the arid region, it may ed that trees adequately supplied be necessary to irrigate to maintain with moisture are less liable to enough to start growth, even in that excessive irrigation is danger-

Quite different is the practice with autumn and winter fruiting Fruits of the citrus family are the take almost a year to accomplish Partial irrigation is now largely what the deciduous trees do in a restrained. It is reserved for the Irrigation before fruit ripening cooler months of winter. As the This reaches the rains with irrigation as may be Irrigation after fruit picking is conditioned tipon adequate mois-



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