

# WINTER CROPS FOR INTERIOR

## EXPERT GIVES ADVICE TO FARMERS

Winter Oats Will Succeed in Central Oregon, and Barley too—Should try to Raise Emmer, or Speltz.

BY PROF. C. L. SMITH.  
(O.-W. R. & N. Agriculturist.)

This paper will discuss other crops than winter wheat and winter rye. These two crops will be of the most value among cereals, but it is practically certain that other crops may be grown with at least reasonable success. These include winter oats, winter barley, winter emmer, or as it is more frequently called, speltz and crimson clover. Possibly the sand vetch may also have a place of more or less prominence.

Winter oats should succeed in Central Oregon. They ought to succeed on land plowed as soon as the fall rains come. The Texas Rust Proof would probably be the best variety to sow. About five pecks should be sown per acre. The crop may be harvested about the same as winter wheat. The only real hazard to this crop sown in the autumn comes from winter killing. Such an occurrence will be determined largely by the character of the winter. Whether the crop may be sown with equally good results in the very early spring has not yet been determined. Oats sown in the late spring are much liable to be injured by the dry weather that comes in the early summer.

Winter barley should succeed in Central Oregon. It does well in the latitude of Tennessee and the winters of Tennessee are more severe than those of Central Oregon. The preparation of the soil would be about the same as for winter oats referred to above. The amount of seed to sow on well prepared land would be about the same as for oats or probably a peck less. The harrowing of the crop would also be the same. Winter emmer may come to have a more important place than either winter oats or winter barley. Great claims are made for the success of this crop in Wyoming where the winter climate is more severe than in Oregon. But this can only be determined by growing it. The method of growing would be about the same as for oats. It is a crop that should be tried.

Crimson clover ought to succeed in Central Oregon. It is usually sown in late July or in August in the eastern states where it is much grown, but it could not be sown in Oregon at such a time for then the weather would probably be so dry as to hinder germination. In Oregon it would be necessary to sow it later. From 6 to 8 pounds of seed would be enough. It ought to be sown in the autumn as soon as moisture enough comes to germinate the seed. The crop should be ready to cut for hay in the month of May. The value of this crop for Central Oregon has yet to be proved. If it will succeed it will mean much to the agriculture of Central Oregon, for it is a soil enricher and its growth adds much to the humus content of the soil because of the root development.

The sand vetch ought to do well in Central Oregon. Whether the common vetch would endure the winters if autumn sown has yet to be proved. The sand vetch could be sown along with winter oats. When thus sown about three pecks of the vetch and two of the oats should suffice per acre. The combined crop would be cut for hay. The oats would furnish a support for the hay and prevent the entangling of the vines that would otherwise occur. The quality of the hay would be excellent.

It is probable that some other winter crops can be grown, but this cannot be determined until it is tried. Meadow fens would probably furnish winter pasture. Perennial rye grass and orchard grass may have a place. Dwarf rape and kale possibly may grow through the winter. These things may not be fully known until tested. To the writer it would seem conclusive that the aim should be to grow winter rather than spring crops. This does not mean that spring crops should not be grown in some instances, but that the bulk of the crops grown should be sown in the autumn, while the dry weather of summer is to be regretted in a way, yet it has its compensations. It means that the farmer may reap his harvest and thresh it without the hazard of rain.

### A BOOK FOR OREGONIANS.

"The Guardians of the Columbia" is the title of a new book by John H. Williams of Tacoma, the author of "The Mountain That Was God." The latter was a literary and pictorial account of Mt. Rainier; a beautiful little book, admirably written and delightfully illustrated. It told the story of the great mountain in a way that won thousands of readers all over the country. The new book, regarding the mountains and forests that flank the Columbia river, is of even greater interest to Oregonians. It contains over 200 fine illustrations,

eight of them in color, and a fascinating account of the region. The prices are: In flexible leather \$2.66 postpaid; cloth, \$1.66; paper, \$0.83. Tacoma, Wash., J. H. Williams, Publisher. J. K. Gill Co. Portland distributors for Oregon.

### What a Wood Lot Does.

A well conducted wood lot is always a source for fence posts, poles, firewood and other useful material. It often yields considerable revenue and is in every way a very valuable adjunct to the farm, enhancing the value of the farm a hundredfold. Moreover, the wood lot does, or generally should, occupy land which is of comparatively small value for any other purposes. Many farms contain rough, broken, stony or swampy lands, which are poorly adapted to ordinary farming purposes or farm crops, but which under proper care and right kind of species can be made to produce excellent timber. In such cases then the growing of timber on such lands is making the best possible use of them.

### Milk and Butter Fat.

The percentage of fat in the cow's milk is determined by two things—first, the breed and, second, the individuality. The milk flow may be stimulated by feed, but the fat content cannot be affected under normal conditions.

### BRICK FOR CISTERNS.

The Bend Brick Company desires to call special attention to the advantages of using brick for cisterns and similar work. It is the most economical and the most satisfactory material.



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### NOTICE FOR PUBLICATION.

Department of the Interior, U. S. Land Office at The Dalles, Oregon, July 17th, 1912.

Notice is hereby given that George W. Triplett, of Bend, Oregon, who, on February 8th, 1909, made homestead entry No. 04488, for lots 1, 2, 3 and NE 1/4 NW 1/4, Section 31, Township 20 South, Range 11 East, Willamette Meridian, has filed notice of intention to make three year proof, to establish claim to the land above described, before H. C. Ellis, U. S. Commissioner at his office at Bend, Oregon, on the 31st day of August, 1912.

Claimant names as witnesses: George W. Shriner, Frederick Huey, Martin J. Main and Hubert G. Caldwell, all of Bend, Oregon.

20-24 C. W. MOORE, Register.

### NOTICE OF BOND SALE.

Notice is hereby given that sealed proposals will be received at the office of the City Recorder, Bend, Oregon, up to six (6) o'clock P. M. on Tuesday, the 24th day of September, 1912, for the purchase of Municipal Bonds of the City of Bend, Oregon. Said Bonds are in the sum of \$40,000 par value, issued in denominations of \$1000, and issued for the purpose of constructing a sewer

system and authorized by vote at a special election held in the City of Bend on the 20th day of July, 1912. Said bonds are dated September 1st, 1912, and bear interest at a rate not exceeding six (6) per cent per annum interest payable semi-annually. Said bonds mature September 1st, 1932. Interest and principal payable at Bend, Oregon, or the Oregon Fiscal Agency in New York City. Said bonds are issued and to be sold in accordance with the provisions of the Charter of the City of Bend.

Proposals for said bonds shall state the rate of interest on which the proposal is based.

Each proposal must be accompanied by a certified check in the sum of One Thousand (\$1000.00) Dollars, made payable to the City Treasurer of the City of Bend, as a guarantee of the good faith of the bidder.

The City reserves the right to reject any or all bids.

By order of the Common Council of the City of Bend, Oregon, dated July 20th, 1912. First publication July 24th, 1912.

G. P. PUTNAM, Mayor,  
H. C. ELLIS, Recorder.

### SUMMONS.

In Justice's Court for Bend Precinct No. 3, Crook County, Oregon.  
Mrs. Nellie Wright, Plaintiff, vs.

### J. E. Kelley, Defendant.

To J. E. Kelley, the above named defendant.

In the name of the state of Oregon: You are hereby required to appear and answer the complaint filed against you in the above entitled action on or before October 1st, 1912, and if you fail to so answer the plaintiff will take judgment against you for the sum demanded in her complaint herein, to-wit for the sum of \$25.00, besides the cost and disbursements of this action.

This summons is ordered to be served upon you by the publication thereof in The Bend Bulletin, a weekly newspaper published in Crook County, Oregon, by the order of J. M. Lawrence, Justice of the above entitled Court; said order being dated August 8th, 1912, date of first publication August 7th, 1912, length of publication six successive weeks.

Dated August 7th, 1912.

C. S. BENSON,  
Attorney for Plaintiff.  
J. M. LAWRENCE,  
Justice of the Peace for Bend, Precinct No. 3, Crook County, Oregon.

### PREMIUMS \$1500, RACES \$3000

### FUN—AMUSEMENT—INFORMATION AND INSTRUCTION.

The Annual Wasco and Hood River County Fair will be held at The Dalles, October 1, 2, 3, 4, 1912. This Exhibition will comprise horses, cattle, sheep, swine, poultry, farm products, fruit, flowers, merchandise, manufactures, machinery, woman's work, art, children's exhibits of art and gardening, speed contests, novel attractions and entertainments that will tickle you very much. Come and have the best time of your life, and you will live fifty years longer. DON'T FORGET THE DATE. JUDD S. FISH, Secy.

A two-horsepower Fairbanks-Morse gasoline engine for sale at a great bargain at the Bend Hardware Company's store. In first class condition.

The Bulletin has a supply of application blanks for hunting licenses which anyone can secure by calling at this office.

## That New Steel County Bridge Will Connect Bend Direct With

# Kenwood

Do you know what the new bridges across the Willamette have done to the prices of East Side Portland property?

Well, prices of East Side Portland property have doubled and tripled during the last few years.

Has it occurred to you that this **new bridge across the Deschutes into the very center of Kenwood** will greatly increase the value of all the splendid residence property there? And do you realize that our prices are 30 per cent lower than those of any residence property the same distance from the center of the business center of town? And that our terms are the easiest offered? And do you know that Kenwood is the best view property in Bend? And do you know that there is a first class water service in Kenwood, many blocks of sidewalk and many attractive homes?

**Prices of Kenwood Lots will be advanced 10 per cent on September 1st.**

# JAMES RYAN

Corner of Wall and Oregon Streets