

RYE IS SUREST, WHEAT RICHEST

**AUTUMN SOWN CROPS
ARE THE BEST**

**Railroad Agriculturist Recommends
Turkey Red Wheat for Central
Oregon—Use of Harrow and
Dust Mulch Described.**

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

In Central Oregon the leading money crop in the line of grain will be winter wheat. The surest grain crop will be winter rye. The winter wheat crop, however, will be reasonably sure if properly grown. This does not mean that spring crops cannot be grown under some conditions, but it does mean that they cannot be so successfully grown as winter crops. This is owing to the fact that the rains that fall come chiefly in the autumn and winter months, only to a limited extent in the spring and not at all in the late summer. For this reason autumn sown crops should always be more successful in Central Oregon than spring sown crops.

The aim should be to sow winter wheat on summer-fallowed land as a rule. The land is best plowed in the autumn as soon as the autumn rains make the ground soft enough to do the work well and without too great cost. This allows the rains of winter to go down into the soil and subsoil. The plowing should be

deep on most soils, not less than six inches deep and usually deeper plowing would be better. In the spring care should be taken not to allow the moisture to escape that has thus penetrated the soil. This is prevented by disking in the early spring as soon as this work can be done and following the disk with the harrow without the disk may suffice. The object sought is to make a dust mulch on the land. The water in the soil cannot escape to any great extent as long as the dust mulch is present, as water cannot climb up through dry soil.

The dust mulch may, however, be destroyed by every considerable rain. This should be prevented by harrowing the ground thus wetted as soon as it is dry enough to harrow without the earth clinging to the harrow. This should be done on through the season until the time comes for sowing the winter wheat. The land must be kept free from weeds also, as weeds will rapidly draw moisture out of the soil. The harrow will usually accomplish this if judiciously used. The land thus prepared will be in a good condition for growing winter wheat at the end of the dry season, or at the season when the autumn rains begin to fall.

The aim should be to put in the wheat with a drill, when thus leaved the crops will have less than when broadcasted and covered with the harrow. The kind of wheat should be judged largely by the market demands in the locality. The soft winter wheats that are much grown in Oregon may yield more than the hard wheats, but the best milling wheat is the Turkey Red. It is a hard wheat and is also hardy. It is a red wheat and is bearded. It is a favorite wheat in much of the dry country east of the mountains. Not more than four pecks of seed should be sown per acre. Where the rainfall is under 15 inches three pecks will be enough. The seed should usually be buried 2 1/2 to 3 inches. It will in many instances be profitable to harrow the crop just when the points of the grain begin to show. The harrow used should be light, and

Cleaning Out Summer Remnants

A Few
BIG BARGAINS
If You Come Soon
FALL SHOES
and
FALL HATS
have arrived.

Get Your Pick of Our Natty Stock.

A. L. French

If the teeth can be given a backward slant, the surface of the ground can be stirred without injury to the grain. Should the ground become crusted later, it may become necessary to harrow again to break the crust. The aim should be, however, to avoid harrowing when the grain is 1 to 3 inches high, lest much of it should be buried. In some seasons autumn harrowing may not be necessary.

In the spring it will usually be necessary to harrow the crop to aid in the retention of moisture. The harrowing ought to be done at an early stage in the growth of the plants, in fact as soon as the ground is dry enough to admit of doing the work without injury to the plants. The degree of the harrowing will depend upon conditions. On some soils naturally loose, only a light harrow should be used, on other soils a heavy spike tooth harrow should be used, and to break up the crusting it should also be weighted in some instances when it is in use. Whether winter wheat should be harrowed more than once will depend upon the conditions. In many instances a second harrowing may not be necessary. In other instances it may do much good. The grain will not be injured by harrowing though it should be 6 to 8 inches high when the work is done, if the right kind of an implement is used, but much judgment should be used in the harrowing of the grain.

WOULD LICENSE PLUMBERS

E. F. Stone Proposes Ordinance for Examination of Workers in City

Bend, Aug. 22, 1912.

To the Editor:

From experience of the past three weeks, as well as from actual observation, I am convinced that there is great public necessity for enacting an ordinance for regulating plumbers and plumbing in this city in the interest of public health. As the city is just commencing the establishment of a public sewer system, nothing could be of greater service to the people, as to health, cleanliness and general welfare, than complete regulation of plumbing, drain laying and sewer building. It is the most important feature in connection with the building of a city, and as it is mostly underground and hidden from view, constant care, watchfulness and skillful workmanship are required and demanded.

I enclose copy of an ordinance, which I have drafted, and which, I think, will do as a starter. Others, with the same end in view, should follow.

As I hope to have it introduced in the council at its next meeting, I believe it would be a good idea to publish it in the next issue of The Bulletin, so that the people may have knowledge thereof. If you deem it worthy, give it whatever notice its importance deserves.

E. F. STONE.

The length of the document prevents the publication of its full text. In brief, the proposed ordinance provides for the creation of a "board of examiners of plumbers," to be composed of the city physician, city engineer and one employing plumber. The general duties of the proposed board are to be provision of applicants with license, granted upon due proof of the skill and experience, and without which plumbers shall not be allowed to operate in the city. This license may be revoked upon provocation, and persons practicing plumbing without it may be fined from \$10 to \$100. Drain layers and sewer builders, it is proposed, are to be somewhat similarly governed and their work inspected.

You ought to have your photo taken.

SEPTEMBER WEDDING

Miss Hall Will Marry Daniel C. Cummings at Parent's Home.

On Thursday, September 19th, occurs the wedding of Miss Fern Achelo Hall to Daniel C. Cummings, at the home of the bride's parents, Mr. and Mrs. G. W. Hall, at Deschutes where the Halls have lived recently. The Rev. I. I. Gorby of Bend will be the officiating clergyman, Miss Dolly, sister of the bride, will be maid of honor and Claude McCauley will be best man.

Miss Hall and her parents are well known here. Mrs. Hall was for a considerable period in charge of the Bend hospital. Mr. Cummings is at present express messenger on the O-W. R. & N. Deschutes train. After October 1st he becomes conductor on the Portland-Pendleton run, when the newly weds home will be made in Portland. Up to then they will reside at The Dalles.

A pretty feature of the wedding will be the presence of orange blossoms and other California blooms, sent up from Oregon's sister state by friends.

STEVENS

The Number 520, Six-Shot Repeating Shotgun at \$25.00 is a hammerless gun with a solid frame. Easier to operate—quicker and smoother action than any other. It never balks and is perfectly balanced.

Detailed description of any of our guns is in our 100 Page Free Catalog. Send for it TODAY.

If you cannot obtain STEVENS RIFLES, SHOTGUNS, PISTOLS, TELESCOPES through your dealer, we will ship direct, express prepaid, upon receipt of catalog price.

J. STEVENS ARMS & TOOL COMPANY
P. O. Box 5007
CHICOPEE FALLS, MASSACHUSETTS



O-W. R. & N. Through Service BETWEEN CENTRAL OREGON AND PORTLAND

All Trains Arrive and Depart From
Union Depot, Portland.

Train leaves Bend 6:30 A. M., arriving Portland Union Depot 5:30 P. M. Returning, leaves Portland 7:50 A. M., or 10:00 A. M., arriving Bend 8:15 P. M. For particulars apply to J. H. CORBETT, Agent, Bend.

WHILE IN PORTLAND

Visit North Beach

A cool, delightful summer resort on the shores of the Pacific Ocean. Only a few pleasant hours down the Columbia from Portland, reached

VIA O-W. R. & N. STEAMERS

"T. J. POTTER" out of Portland at 10:30 P. M. or the "HASSALO" at 8:00 A. M.

J. H. MUSGROVE

W. F. SCHAIDT

THE LOTUS BAR

Schmidt & Musgrove, Props.

WINES LIQUORS CIGARS
ONLY THE BEST OF GOODS HANDLED

Bond Street

Bend, Oregon

FOREST FIRES MENACE PROSPERITY

A little care on YOUR PART may result in the saving of THOUSANDS of DOLLARS to CITIZENS of OREGON. Do you realize that Oregon Timber pays about one-third of the State's taxes? That Oregon's Forests distribute more wealth in the State than Grain, Fruit, Vegetables and Fish combined? Good Citizenship Demands Observance of the Forest Fire Laws.

Oregon Forest Fire Association

718-719 Yeon Building, Portland, Oregon.

Repeating
Shotguns
\$19.50
to
\$95.00



repeating shotguns are made in 12 and 16 gauges (6 shots.) solid frame and take-down, many grades and styles, with special models for trap and field shooting, etc. The most extensive line of repeating guns in the world.

Every Marlin repeating shotgun has the Marlin solid top, side ejector and closed-in breech. It can't freeze up with rain, snow or sleet; rain can't run into the action and swell the shells in magazine; dirt, leaves, twigs and sand are also excluded from the action. Simple, strong mechanism; one-third less parts than any other repeats. The double extractors pull any shell. Handling rapidly, guaranteed in shooting ability—and the automatic recoil safety lock makes it the safest breech loading gun built. Be sure you get a Marlin. DO IT NOW! Send three stamps postage and get our big catalog of all Marlin repeating rifles and shotguns by return mail. The Marlin Firearms Co. 42 Willow Street New Haven, Conn.

If you read The Oregonian, The Oregon Journal
or The Evening Telegram of Portland
why not save \$1.50 and get

THE BEND BULLETIN

THROWN IN FOR THE SAME PRICE?

The regular yearly rate for the Oregonian, daily and Sunday, is \$8.00
The regular yearly rate for the Oregonian, daily only, is 6.00
The regular yearly rate for the Evening Telegram is 5.00
The regular weekly rate for the Oregon Journal, daily and Sunday is 7.50
The regular yearly rate for the Oregon Journal, daily only, is 5.00
The regular yearly rate for the Oregonian, weekly only, is 1.50
The regular yearly rate for the Oregon Journal, semi-weekly, is 1.50
The regular yearly rate of THE BULLETIN is \$1.50

But every NEW SUBSCRIBER to this paper is entitled to get the full advantage of our splendid clubbing rate and receive ANY ONE OF THESE PAPERS TOGETHER WITH THE BEND BULLETIN FOR THE PRICE QUOTED ABOVE. And don't forget that you can get the PACIFIC HOME-STEAD (regular price \$1.00) together with The Bulletin (regular price 1.50) both for \$1.50. Send in your check today to

THE BEND BULLETIN

Bend, Oregon

Headquarters for Commercial Men
Electric Lighted Throughout

Special Attention to
Transient Travel

BEND HOTEL

HUGH O'KANE, MANAGER

Good Rooms BEND, OREGON Good Meals

Free bus to and from trains All arrangements made for persons desiring to go south and east of here



Irrigating Problems Easily Solved

YOUR best and cheapest crop insurance is an independent irrigating plant. The IHC local dealer can assist you in buying your outfit. He has the best engineering practice at his command. He can save you money and future trouble by selling you an outfit operated by a dependable

IHC Oil and Gas Engine

The one thing most necessary in an irrigating outfit is reliability. When you need water, you need water, not trouble. IHC engines are proved reliable before they leave the factory. Nothing is left to chance. No expense is spared to make them right, to assure reliability and length of service. Another advantage in buying from the IHC local dealer is that you can get efficient help quickly in any unforeseen emergency.

You will find it easy to choose an IHC engine. The same engine that does your irrigating will run the saw, grindstone, feed grinder, or any other farm machine to which power may be applied. The line is complete—vertical and horizontal engines, air and water cooled, stationary, portable and mounted on skids, in sizes from 1 to 50-horse power; tractors 12, 15, 20, 25 and 45-horse power, to operate on gas, gasoline, kerosene, naphtha, distillate, or alcohol. Also, sawing, spraying, and grinding outfits, etc.

See the IHC local dealer for catalogues and full information, or write

International Harvester Company of America
(Incorporated)

Portland

IHC Service Bureau

Ore.

The purpose of this Bureau is to furnish, free of charge to all, the best information obtainable on better farming. If you have any worthy questions concerning soils, crops, land drainage, irrigation, fertilizers, etc., make your inquiries specific and send them to IHC Service Bureau, Harvester Building, Chicago, U.S.A.

