

# OUTLINE FOR HANDLING "40"

PROF. H. D. SCUDDER WRITES ARTICLE

O. A. C. Man Tells What Crops Can Best Be Raised on Irrigated Land in the Bend Country—Potatoes Get Prominent Place.

Manager Sawhill of the Commercial Club some time ago wrote to Director James Withycombe of the Oregon Experiment Station at Corvallis, asking that he outline a plan for cultivating 40 acres of irrigated land at Bend. Mr. Withycombe referred the matter to Prof. H. D. Scudder, who is familiar with Central Oregon land and conditions, and he has prepared the valuable article which is printed herewith. In his letter to Mr. Sawhill, Director Withycombe has the following to say regarding the raising of potatoes:

"I have thought about the growing of potatoes in your section, since talking with you on the subject when I was there (with the O. W. R. & N. demonstration train the first of November), and believe this should be made one of the main features of production in your section. The quality of the potatoes grown there is exceptionally fine. Some localities in the East make a specialty of growing potatoes for fancy trade; for

instance, in some of the restaurants of Chicago they print on their bill of fare, 'Colorado-grown Baked Potatoes.' There is no reason why Bend should not be known as a potato section as well as any other section of the United States. There is something about the quality of the potatoes grown there that is very delicious."

## Prof. Scudder's Plan.

Prof. Scudder, in his article for a cropping plan for 40 acres on irrigated land surrounding Bend, advises that the land be used as follows:

"First four acres selected with a view to convenience of access both to the highway and to the fields, also for attractiveness and good drainage, should be set aside for the farmstead. Roughly, one acre of this would be used for the house and barn; one acre for the garden, including small fruits and orchard, and the other two acres divided into spaces for chicken and pig grounds and houses and a small exercise yard for cows and other livestock."

"Second, the thirty-six acres remaining would be considered as three 12-acre fields devoted to the following rotation:

"Field 1, 12 acres, grain (barley and oats and wheat in such amounts as is required for feed of the pigs, cows, horses and chickens kept.) With the grain in the spring these twelve acres would be seeded to clover, 10 pounds per acre."

"Field 2, 12 acres, clover (this clover may be cut for hay but preferably six acres should be cut for hay the first crop but the second crop should be cut for seed and the straw returned and plowed under or the second crop not cut at all on this six acres but plowed under in the fall and left rough plowed over winter.)"

"Field 3, 12 acres—six acres of potatoes (or other root crops such as mangels) and six acres of clover (cut for hay or pastured.)"

## Rotation of Crops.

"Each year these would be the crops and the acreage of each produced but each succeeding year the list of crops given would be rotated over the three fields in the order named; that is, Field 1 the first year would be in grain (with which the clover would be seeded) second year, clover; third year, six acres of the clover left and either cut for hay or used for pasture and the six acres that was plowed put into potatoes or mangels and turnips."

"In this rotation the manure is applied either to the ground that is put in mangels or is applied to the six acres of clover which is to be left down the second year. Where applied to the clover, of course, it is spread during the winter and then thoroughly harrowed in the early spring."

"Fields 2 and 3 would receive exactly the same rotation except that number 2 would start in the rotation with the clover and number 3 with the potatoes and clover."

"This rotation would permit what I believe is the best farming system adapted to the entire irrigated section around Bend. The most profitable crops that can be raised in that country are: the clover, which could of course be replaced with alfalfa if desired; the grain, and the potatoes. This makes an ideal rotation for their conditions, all of the hay and grain and other feed produced to be consumed upon the farm and the crop marketed to consist either of butter, eggs, pork, and potatoes or hay and seed. The clover hay, of course, together with a certain amount of mangels and barley and oat chop, would make an excellent ration for dairying; or clover pasture, barley and skim milk would make an excellent ration for pigs and where the pigs were made the main crop additional pasture could be supplied by rape and it would be desirable to have a certain amount of more permanent pasture in the shape of alfalfa, while considerable use also

could be made of field peas pastured off where pigs were the main crop. A certain amount of the clover and oats would, of course, be used for the horses on the place and a little wheat would be raised to supply the chickens and perhaps a small patch or two of rape sown at different periods for a chicken pasture. This might be a portion of the 6-acre cultivated field each year if a considerable part of the revenues of the farm came from the chickens."

## Would not Exhaust Soil.

"The potatoes or clover seed or alfalfa seed or field pea seed would be the only field crops that would be sold from the farm direct as money crops. All of these would take away only a proportionately small amount of the soil fertility and with the rotation named the fertility would be maintained and in the case of nitrogen—the most critical element—it would, in fact, increase. The clover and the manure together would steadily increase the humus and nitrogen supply and this is decidedly the most important thing to do in the soils of that region. These soils are not naturally strong or enduring and if potatoes and grain and other fertility consumers are grown alone it will not be many years before production will rapidly decrease. It is extremely important that farmers in the vicinity of Bend get started right at the very beginning of their agricultural history with a good rotation such as that named. This rotation will not only maintain fertility but, much more important, it is one of the best and surest moneymakers possible to devise."

"It will take one year of preparatory crops before the rotation can be started and it will be the third year before the rotation is in full swing."

## How to Get Started.

"To make this more clear, we will start with the land just cleared, let us say. We will consider the farm in three 12-acre fields—Nos. 1, 2, and 3."

"First year—We would have the following: No. 1, 12 acres, oats and pea hay or oat hay alone. No. 2, 12 acres, barley (seed to clover.) No. 3, 6 acres oats (seed to clover) and 6 acres field peas."

"Second year—No. 1, barley or other grain seeded to clover. No. 2, clover, 15 acres of which is to have the second crop plowed under or threshed for seed and the straw returned and plowed under. No. 3, 6 acres of potatoes or a root crop with perhaps a small part in mangels and rape, 6 acres of clover."

"Third year—No. 1, 12 acres clover. No. 2, 6 acres potatoes or other cultivated crop on the plowed clover ground and 6 acres of clover. No. 3, 12 acres of grain, the barley being sown on the potato ground and the oats on the clover ground."

"You see, in the second year we have all the crops belonging to this rotation but not until the third year is the rotation moving over the fields and in action."

"If you would like, I shall be glad to make out many other possible rotations for a 40-acre farm, especially such as would include field peas and alfalfa as a regular part of the rotation where pigs were made the chief animal product. I believe that the above rotation, however, is the best all-around rotation for the region and one which with a few slight variations may be readily adapted to any class of animal production."

"If you would like details as to variety and cultural methods for the above crops, I should be glad to supply the same."

"Respectfully yours,  
H. D. SCUDDER."

## Application for Grazing Permits.

Notice is hereby given that all applications for permits to graze cattle, horses and sheep within the DESCHUTES NATIONAL FOREST during the season of 1912, must be filed in my office at Bend, Oregon, on or before February 26, 1912. Full information in regard to the grazing fees to be charged and blank forms to be used in making applications will be furnished upon request.

J. ROY HARVEY, Supervisor.

## Application for Grazing Permits.

Notice is hereby given that all applications for permits to graze cattle, horses and sheep within the CASCADE NATIONAL FOREST during the season of 1912, must be filed in my office at Eugene, Ore., on or before February 26, 1912. Full information in regard to the grazing fees to be charged and blank forms to be used in making applications will be furnished upon request.

CLYDE R. SEITZ, Supervisor.

## NOTICE FOR PUBLICATION

Not Coal Land.

Department of the Interior, United States Land Office, The Dalles, Oregon, January 31st, 1912.

Notice is hereby given that James Ryan, assignee of Archibald Campbell, whose postoffice address is Bend, Oregon, filed in this office this 21st day of July, 1911, (under 2304 R. S.) his application to select the SE 1/4, SW 1/4, Sec. 20, township 17 south, range 12 east, Willamette Meridian, Serial No. 99334.

Any and all persons claiming adversely the lands described, or desiring to object because of the mineral character of the land, or for any other reason, to the disposal to applicant should file their affidavits of protest on or before the 10th day of March, 1912.

C. W. MOORE, Register.

## NOTICE FOR PUBLICATION.

Department of the Interior, U. S. Land Office at The Dalles, Oregon, February 1st, 1912.

Notice is hereby given that Charles W. Thornwaite, of Tumalo, Oregon, who, on September 9th, 1904, made homestead entry, No. 13787, serial No. 93297, for sec 34, section 19, township 16 south, range 11 east, Willamette Meridian, has filed notice of intention to make final five 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 14th day of March, 1912.

Claimant names as witnesses: George P. Pulliam, Frederick W. Leverenz, Hubert A. Scoggins and Ellis H. Edgington, all of Tumalo, Oregon.

C. W. MOORE, Register.

## NOTICE FOR PUBLICATION.

Department of the Interior, U. S. Land Office at The Dalles, Oregon, January 29th, 1912.

Notice is hereby given that William J. McGillivray, surviving husband, and administrator of the estate of Charlotte E. McGillivray, (deceased) assignee of Sarah Ferguson, of Bend, Oregon, who, on March 14th, 1905, made Desert Land Entry No. 540, Serial No. 92325, for e 1/2 sec 4, Sec. 24, T. 18 S., R. 12 E. and w 1/2 sec 4, section 19, township 18 south, range 13 east, Willamette Meridian, has filed notice of intention to make final desert proof, to establish claim to the land above described, before H. C. Ellis, U. S. Commissioner, at his office at Bend, Oregon, on the 11th day of March, 1912.

Claimant names as witnesses: Ernest Garratt, Ray A. McGillivray, Cora A. Brosterhous and Charles D. Rowe, all of Bend, Oregon.

C. W. MOORE, Register.

## NOTICE TO CREDITORS.

In the County Court of the State of Oregon for the County of Crook in the matter of the estate of John W. White, deceased.

Notice is hereby given by the undersigned, the duly appointed and acting administrator of the estate of John W. White, deceased, to the creditors and all persons having claims against the said estate or said deceased, to present them duly verified as required by law, within six months after the first publication of this notice, to the said administrator at the office of his attorney, Vernon A. Forbes, in the First National Bank Building, Bend, Oregon, the same being the place for the transaction of the business of said estate in said county and state.

Dated this 8th day of January, 1912.

A. C. LUCAS, Administrator of the estate of John W. White, deceased.

## NOTICE FOR PUBLICATION.

Department of the Interior, U. S. Land Office at The Dalles, Oregon, January 15th, 1912.

Notice is hereby given that Willard W. Lawson, of Gist, Oregon, who, on February 26th, 1911, made homestead entry, No. 95161, for sec 4, section 2, township 16 south, range 16 east, Willamette Meridian, has filed notice of intention to make final commutation proof, to establish claim to the land above described, before H. C. Ellis, U. S. Commissioner at his office, at Bend, Oregon, on the 24th day of February, 1912.

Claimant names as witnesses: Arthur B. Gertson, George W. Gertson, E. H. Young, of Tumalo, Oregon, and Robert Davis, of Gist, Oregon.

C. W. MOORE, Register.

## NOTICE FOR PUBLICATION.

Department of the Interior, U. S. Land Office at The Dalles, Oregon, January 15th, 1912.

Notice is hereby given that James A. Helmes, of Bend, Oregon, who, on December 22nd, 1910, made homestead entry, No. 97763, for sec 4, w 1/2 sec 4 and w 1/2 sec 4, section 18, township 20 south, range 11 east, Willamette Meridian, has filed notice of intention to make final commutation proof, to establish claim to the land above described, before H. C. Ellis, U. S. Commissioner at his office, at Bend, Oregon, on the 2nd day of March, 1912.

Claimant names as witnesses: William P. Vandeventer, Peter Seggeling, James S. Smith, Cortez B. Allen and Martin J. Main, all of Bend, Oregon.

C. W. MOORE, Register.

## NOTICE FOR PUBLICATION

Department of the Interior, U. S. Land Office at The Dalles, Oregon, January 29th, 1912.

Notice is hereby given that George Higginson, of Tumalo, Oregon, who, on October 13th, 1910, made homestead entry, No. 97569, for e 1/2 sec 4, and w 1/2 sec 4, section 18, township 16 south, range 11 east, Willamette Meridian, has filed notice of intention to make final commutation proof to establish claim to the land above described, before H. C. Ellis, U. S. Commissioner, at his office at Bend, Oregon, on the 15th day of March, 1912.

Claimant names as witnesses: Jonas L. Olsson, Frederick W. Leverenz, Hubert A. Scoggins and Henry C. Schumacher, all of Tumalo, Oregon.

C. W. MOORE, Register.

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**Deschutes Lodge No. 103 K. of P.**  
Meets every Wednesday evening at 8 p. m. in Castle Hall, post-office Bldg. Visiting Knights welcome. Chas. D. Rowe, C. C. N. P. Smith, K. R. & S.

## I. O. O. F.

Bend Lodge No. 218 Reg. Meetings every Monday night Visitors welcome O. M. Patterson, N. G. W. L. Wing, Secretary.

**BEND LODGE No. 139 A. F. & A. M.**  
Meets on Thursday on or before the full moon of each month. Visiting brothers always welcome. J. D. Davidson, W. M. H. E. Allen, Secretary.

**FRATERNAL BROTHERHOOD.**  
Bend lodge meets every Saturday evening in hall over postoffice. Visiting brothers and sister always welcome. U. N. Hoffman, President Sara M. Perry, Secretary.

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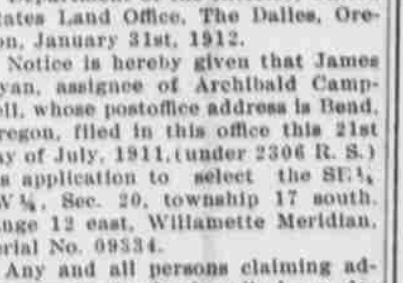
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