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# ORGANIC MA AND ITS VALUES

### ANOTHER TALK BY PROF, POWERS

Good Productive Land Should Contain 3 to 6 Per Cent-Soils Improved by Increasing Amount of This Organic Matter

By W. L. POWERS (Supt. Demonstration Farms.).

Organic matter in soils is decayed the minerals in the ash. and decaying vegetable and animal fragments. humus. is the principal agency in the formation of humus. It becomes incoring agencies.

Good productive soils should contain two to six per cent organic matter in the surface seven inches. Very few sections of the county have such an abundance of organic matter Deeds and Patents Filed Recently in the soils that its maintenance may be neglected, while most of our solls may be greatly improved by increasing the amount present. The only method by which we can change the physical composition of our soils is by increasing the organic matter Organic matter is highly content. valuable both for its physical and chemical effects.

Chemically organic matter is the chief source of soil nitrogen. Most of our soils seem rather too low in nitrogen when compared with many other Oregon solts. Humus in arid solls contains about fifteen per cent in humid soils is only about five per 15-19. \$280. Being the residues cent nitrogen. fairly available form, all food elethe formation and decay of organic toria. matter is associated with great bacterial activity and the formation of acid substances which in turn re-act on the mineral particles in soils to release potash and phosphorous.

Physically organic matter, through its fibrous or gelatinous nature imtogether into crumbs giving a good invested.

#### mellow soil condition Organic matter improves the moisture content of soils because it acts as a sponge or absorbant and because it keeps the soll loose and easily mulched, that is, it holds the sell particles together in clusters and prevents "puddling" or "running together" and crusting.

Yegetable matter in the soils lessens the croding effect of heavy rains by holding the soil particles in place and by loosening up the soil so the water will be absorbed to a greater extent.

Humus generally is associated with dark color in soils and it is well known that dark surfaces absorb heat while light ones reflect it. Experiments have been tried in which differences of several degrees were obtained where part of a soil was darkened with organic matter.

Run down land more frequently lacks organic matter than it does chemical fertilization. Burning straw or stalks should be avoided for this destroys the organic matter and releases the most costly of plant foods (nitrogen) to the air, leaving only

Farm manure furnishes a limited When in a thoroughly amount of organic matter and this decayed, gelatinous form it is called should be supplemented by green Growth and decay of plants manures, such as rye in the southeast part of the county and especially clover, alfalfa and field peas where porated into the soil by various mix- they can be grown because they are nitrogen gatherers.

### **RECORD OF TRANSFERS**

With County Clerk at Prineville

H. A. Miller to Ruth R. Overturf, ne% 32-19-10, se% 35-18-12, e% se% 24, e% ne% 25-17-11, \$1. W. Neeld to Bend Park Co., It 4, blk 44, Center Add., Bend. \$1. Northern Pacific Ry. Co. to Oregon Trunk Ry., It 1 of 17-9-12, \$412.

T. F. McCallister to Frederick W. Leverenz, water rights in sec 29-15-10, in sec S-16-11, \$500.

Harry J. Catlow to Dan Catlow. se 14 1-16-12. \$1.

nitrogen while the humus contained Catherine J. Stewart, nw 1/4 sw 1/4 36-

Lytle Townsite Co. to Bend Park of decayed plants humus contains in Co., its in Lytle and Riverside owned hy Lytle Townsite Co., and Its 1-2 blk ments required by plants. Moreover, 12, its 13-14-15-16, blk 13, Wies-\$10.

Bend Securities Co. to Bend Park Co., Its in Riverside. \$10. Emmett C. Sanders to Frances M.

Dickson, se % 36-18-14. \$3000.

A classified ad in The Bulletin is proves the physical condition or tilth read by hundreds and orings the adby causing the soil particles to stick vertiser good returns for the money

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THE FLOCKMASTER.

Keep the best ewe lambs to increase the flock

When the lambs are weaned put a few gentle ewes with them to keep them from worrying and becoming wild.

Sell the fattening lambs as soon as fit and give the remaining ones a better chance. Be sure the ticks are all re-

moved. It does not pay to feed ticks. The owes and lambs should be

kept out of hearing of each other for a time when weating thom.

Give the wethers extra grain and send them to market before the pasture is dried and short. Sheep are a good medium for increasing the fertility of the farm of the man of limited DIGATES

Don't neglect to keep sait in every pasture.-Farm Joarnal.

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#### THE PIGS IN SUMMER.

Importance of Furnishing Forage For the Growing Porkers.

The late summer season is a trying time upon pigs. Green pasturage is likely to be at its poorest at that time, writes H. E. McCartney in the Nation. al Stockman. Crops that are most succulent and appetizing early in the spring and late in the fall have a habit of practically dying down during the summer time. On the writer's home farm a large blue grass pasture was used for years. For about six weeks each summer it was about as bare of green feed as the stubble fields adjoining it.

There are several different crops that will supply summer feed. Alfaifa that grows through the whole season is no doubt the peer of all other permanent crops. A mixture of oats, peas and rape or oats, clover and rape has proved to be about the most satisfactory when the ability to furnish green feed during the summer is considered. The Northwest Tr. & Safe Dep. Co. to writer recently read of an experiment station test where the amount of gain made on hogs from different kinds of forage was compared. Very surprising and striking differences were giv-From blue grass less than 400 en. pounds of pork was made per acre in the entire season. From alfaifa about 650 pounds of gain were reported. The greatest of all was from the mixed crop of oats, clover and rape. More than 800 pounds of pork per acre was reported.

There is another strong reason be sides the greater amount of gain secured for robing crops that are green in the summer. The pigs must not be

NORTH PORTLAND, Oct. 19. were 1262 bursements of this action, Receipts for the week cattle, 53 calves, 3633 hogs, 5880 sheep and 26 horses. There was by publication by authority of an her 18th, 1912. among buyers and sellers as to whether or not the cattle market State of Oregon for the County of was as high this week as any time Crook. Said order is dated the 24th during the fall. There was an undentable stiffening in prices as compared with the week previous and it was generally conceded that the market was full strong and in some particulars higher than last week. A glance at the sales will show steers at \$7 and cows at \$6.50. The how market was strong to 15c higher this week. Buyers stated that the advance in price was due to the extreme quality of the offering. There has not been a great deal of quality to the hogs that have been offered this fall. Growers have not taken the trouble to finish their hogs, rush ing them into market in only i fairly fat condition. This has had a tendency to reflect on the prices The sheep market was fully strong throughout.

MARKET REPORT.

#### NOTICE TO CREDIFORS.

In the County Court of the State of Oregon for Crook County. In the matter of the Estate of

nna T. Aune, deceased. The undersigned having been ap pointed Executor of the Last Will and Testament of Anna T. Aune, deceased, notice is hereby given to the creditors of said Estate and all persons having claims sgainst said deceased to present them duly verified as required by law, within six months from the date of this Notice, to the undersigned at the office of C. S. Henson, Lawyer, Bend, Oregon. Dated this 9th day of October, 1912.

ANTON A. AUNE, Executor of the Last Will and Testa

The Bend Company, a corporation. Plaintiff, vs. G. C. Cooper and N. A. for want thereof, the plaintiff will Cooper, co-partners, doing business apply to the Court for the relief the person by whom the copy was under the firm name and style of prayed for in complaint, to-wit: For mailed stating when and the post Cooper, co-partners, doing business apply to the Court for the relief the Terrebonne Lumber Co., De- the cancellation and setting aside of The fendants.

To G. C. Cooper and N. A. Cooper, 1904, made between you and the by above named Defendants:

Company and assigned to said plain-In the name of the State of Oretiff, relating to the settlement of cergon you are hereby required to appear and answer the complaint find tain lands, and the purchase of water against you in the above entitled rights appurtenant thereto, situate in suit within six weeks from the date Crook County, Oregon, and for such of the first publication of this sum- other and further relief as may seem mons, and if you fail to appear and to the Court just and equitable. answer for want thereof the Plaintiff This summons is served upon you will apply to the Court for the relief by publication by authority of an 9th, 1912. prayed for in the Complaint, to-wit: order of the Hon. W. L. Bradshaw, for judgment against you and each Judge of the Circuit Court of the 16th, 1917. of you for the sum of \$719.20 with State of Oregon, for the County of

interest thereon at the rate of 10 per Crook, and said order is dated the 33rd, 1912.

cont per aunum from April 17, 1912, 12th day of September, 1912, and fa until paid, and for the costs and dis- duty recorded and entered in said Court and sult.

Judge of the County Court of the

day of September, 1912, and is duly

recorded and entered in said Court

Date of first publication Septem-

NOTICE TO CREDITORS.

in the County Court of the State of

from the date of this Notice, to the

undersigned at the office of C. S.

Dated this 9th day of October, 1912.

Executor of the Last Will and Testa-

SUMMONS.

In the Circuit Court of the State of

Oregon, for the County of Crook.

ment of Arut Aune, deceased.

ANTON A. AUNE.

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Bennon, Lawyer, Bend, Oregon.

VERNON A. FORBES.

Attorney for Plaintiff.

and action.

ber 25, 1913

fendants.

Defendants.

Date of first publication, Septem-This summons is served upon you JESSE STEARNS,

Attorney for the Plaintiff

#### NOTICE OF CONTEST.

Department of the Interior, United States Land Office, Lakeview, Oregon, September 24, 1912.

To John S. Thornton of present ad-dress unknown, Contestee: You are hereby notified that Floyd W. Reasoner, who gives c-of C. S. Benson, Bend, Oregon, as his post-office address, did on August 25, 1912, file in this office his duly corroborated application to contest and

in the County Court of the State of Oregon for Crook County. In the matter of the Estate of Arnt Aune, deceased. The undersigned having been ap-pointed Excentor of the Last Will and Testament of Arnt Aune, De-ceased, notice is hereby given to the eased, notice is hereby given to the said tract nor have you ever culticreditors of said Estate and all pervated or improved said tract to any extent whatever but have wholly abandoned said tract for more than sons having claims against said deceased to present them duly verified as required by law, within six months one year last past.

You are, therefore, further noti-fied that the said allegations will be fied that the said allegations will be taken by this office as having been confessed by you, and your said entry will be canceled thereunder without your further right to be heard therein, either before this of-fice or on appeal, if you fail to file in this office within twenty days after the FOURTH publication of this notice, as shown below, your answer, under oath, specifically meeting and under oath, specifically meeting and responding to these allegations of allegations of

Central Oregon Irrigation Com-onnest, or if you fail within that time pany, a corporation, Plaintiff, va. Frank Stevens and S. L. Dew and Desert Land Board of Oregon, De-answer on the said contestant either in person or by registered mail. If this service is made by the delivery

To Frank Stevens and S. L. Dew, of a copy of your answer to the contestant in person, proof of such service must be either the said conauch In the name of the State of Orement of Anna T. Aune, deceased. summons, In the Circuit Court of the State of suit within six weeks from the day of Strain of the state of the state of the state of suit within six weeks from the day of suit weeks from the day of suit weeks from the day of suit weeks from the day of Oregon, for the County of Crook, the first publication of this summons was made stating when and where and if you fail to appear and answer,

registered mail, proof of such ser-vice must consist of the alldavit of the cancellation and setting aside of office to which it was malled, and a certain contract, dated October 21, this affidavit must be accompanied the postmaster's receipt for the

Deschutes Irrigation and Power letter. You should state in your answer the name of the post office to which you desire future notices to be sent to you.

A. W. ORTON. Register.

Date of first publication October 2nd, 1912.

Date of second publication October

Date of third publication October

Date of fourth publication October



If you want a good residence or business lot, investigate what we have to offer. We have the best on the market at the best prices and on the best terms.

Some great bargains in five-acre tracts with water rights, on your own terms.

Our lists of irrigated lands include the best there is in Central Oregon. It will pay you to see what we have.

We can locate you on very desirable 320 acre homesteads, or sell you good relinquishments with valuable improvements.

We make a specialty of fire insurance, indemnity bonds and plate glass, show case and mirror insurance. Our companies are the best in the United States, and pay their losses promptly.

We are the oldest established real estate firm in Bend, and have a first class record for fairness and efficiency. If you have something to sell or wish to buy, let us help you.

## **Oregon Investment Company**

Wall Street,

Bend, Oregon