Put it in "THE BULLETIN."

STATEMENT OF OWNERSHIP.

Statement of the ownership, management, ireulation, etc., required by the Act of Conress of August 24, 1912, of The Bend Hulletin Weekly Edition), published weekly at Bend, Iregon, for April 1, 1919.

State of Oregon, County of Deschutes, as

None.

4. That the two paragraphs next above, siving the names of the owners, stockholders and security holders, if any, contain not only the list of stockholders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing afflant? full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trusteen, hold stock and securities in a capacity other than that of a bona fide owner; and this affant has no reason to believe that any other person, association or corporation has any interest direct or indirect in the said stock, bonds or other securities than as so ntated by him.

5. That the average number of copies of each jease of the contributions of the contributions of the contribution of copies of each jease of the contribution of the contribution of copies of each jease of the contribution of copies of each jease of the contribution of the contribution of the contribution of the contribution of copies of each jease the contribution of the contribution of copies of each jease the contribution of the contribution of copies of each jease the contribution of the contribution of the contribution of copies of each jease the contribution of the contribution of

REPORT ON SOIL QUALITIES GIVEN

(Continued from Page 1.)

ing potash for crop use. Experiments were conducted to test the contains potassium and sulphur. It value of potash as against gypsum. Both sulphate and chlorite of pot- 60 to 80 pounds of sulphur an acre ash were used. At the end of the to the Deschutes valley soil once in season results obtained strongly indicated that sulphur in land plaster and potassium sulphate was most im- be made on alfalfa or other legumes. portant in increasing yields. This explanation was suggested by Doctor of land plaster once in two or three Reimer and Professor Tartar as a years could be substituted for sulresult of successful use of other forms of sulphur in Southern Ore- phur on sour soil or on crops other gon the same season.

The use of sulphur the following mental stage in Oregon. tor in these soils where legumes such as alfalfa are to be grown.

The Deschutes Valley Investigations, 1918.

In these trials sulphur caused the plant food. the land or the manure returned to available supply of this element. the soil.

creased yields obtained from the ap- manure in maintaining fertility. plication of sulphur indicate that it

phur must be in sulphate form to be ter is associated with activity of tion and enable dry matter to be proyear after its application. Superphosphate contains phosphorus, sulphur and lime. Potassium sulphate organic matter needs to be often reappears to be good practice to apply the rotation or once in every four or five years. The application should One hundred and fifty or 200 pounds phur on legumes. The use of sulthan logumes is not past the experi-

year, and aubsequent years has fur- Nitrogen is often the most import ther substantiated the theory that ant element for Deschutes soils and sulphur is the greatest limiting fac- crops. It is used in large quantities by most crops. The cheapest source of nitrogen is the legumes which both secure their own nitrogen from the air and leave a large amount in the soil for succeeding crops. The Four fairly complete fertilizer ex- use of rotation and manure, with periments were conducted during the legume sod plowed under every four past year and many additional fer- or five years, or with alfalfa plowed tilizer demonstrations were carried in after five or six years, should increase the supply of this valuable

most marked gain in the yield of Potash and phosphorus in the De alfalfa. The average gain from all schutes valley soils is about average representative trials was about 11/4 | Certain crops like potatoes, clover tons an acre. This was generally a or root crops make heavy demands larger increase than was obtained by upon potassium, and at normal prices gypsum. The sulphur treatment may this fertilizer has been used with a be expected to give more lasting re- good margin of profit in Deschutes sults. Since it is possible that sul- valley experiments. Since war conphur may have a stimulating effect ditions have made the price of potash upon the soil, it is strongly urged prohibitive, the use of wood ashes that in order to maintain the fertility and manure must, at present, be dethe crops produced be fed out on pended upon to help maintain an

Phosphorus is used by plants in Sulphur is especially important much smaller quantities than nitrofor legumes such as alfalfa, clover, gen, but is often a very important vetch, peas and beans and the cab- limiting element in soils. The use bage family. Redmond demonstra- of phosphorus has caused increased tion farm soil contains 646 pounds yields in Deschutes county soils but of sulphur in the plowed surface this may be partly due to the sulphur 16% inches), or sufficient to meet contained in the superphosphate. the requirements of heavy crops of Eventually some phospate may have alfalfa for but, 20 years. The in- to be used to supplement or balance

Organic matter is probably the a limiting element for certain of greatest need of Deschutes soils. The our soils in the arid and semi-arid source of this material is stable manctions of the state for crops like ure, straw and legume sod, or roots alfalfa. Sulphur may be applied as and leaves of plants. This material powdered sulphur or calcium sul- has many beneficial effects in the phate or gypsum. It is also present soil. Because it is spongy it inin superphosphate and in barnyard creases the water capacity. It makes manure. Gypsum contains about 18 the soil more mellow and friable. It pounds of sulphur to the hundred darkens the soil and makes it pounds and acts promptly, as sul-warmer. The decay of organic mat-

used by plants. Powdered sulphur beneficial bacteria and the liberation duced at a more economical water acts more slowly, but its beneficial of valuable plant food from the or- cost. In other words, "the richer the effect has been observed the fourth ganic matter and from the mineral soup, the less required" by the crop particles of the soil. Since it is most per pound of feed produced. valuable in the active decaying form plenished.

Irrigation Experiments.

The main water variation trials indicate that for the season at hand six to eight inches depth of irrigation on potatoes gave the most profitable returns. Fourteen to 16 inches gave comparatively good returns on grains and the best results were obtained on the meadow with the maximum applications. The greatest depth applied was two feet. It was a case of more water, more hay. If the first cutting of airliffs out the williams place required as much irrigation as the second then 29 inches depth of irrigation was applied for the season.

State of Oregon, County of Deschutes, 28.

Before me, a Notary Public in and for the atate and county aforesaid, personally appeared by the data and county aforesaid, personally appeared by the business manager of the lend Bulletin (Weekly Edition) and that the following is, to the best of his knowledge and belief, a true statement of the ewnership, management (and if a daily paper, the circulation) etc., of the aforesaid publication for the date of August 24, 1912, embodied in section 44. Postal Laws shell Regulations, printed on the publishes, silitor, scannering editor and business managers are:

Publisher, The Bend Bulletin, Bend, Oregon, Managing Editor, Robert W. Sawyer, Bend, Oregon.

Business Manager, Fred A. Woeitlen, Bend tion on potatoes gave the most profit-

Relation of Fertility to Economic Uses of Water.

Uses of Water.

In these experiments wherever the fertilizer was effective, there was a large increase in the production of large increase in the large increa dry matter from the same amount of water applied. This gave a decidedly better return per acre foot of water. It is entirely possible and very desirable under irrigation to build up the water applied of the same amount of build up the water capacity and the available fertility of the soil so as to maintain a richer plant food solu-

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information is required from daily publica- day of March, 1919.

VOLUME 1

BEND, OREGON.

NO. 2

PUBLISHED BY THE BEND HARDWARE COMPANY.

PAINTING UP

One of the odors of spring is that of fresh paint. Its reek pervades Washington. To some persons it is an odor of no appealing fragrance, but the scent carries with it the whiff of progress. The spring Clean Up and Paint Up campaign is in full swing. An enthusiastic dealer in paint and ailied things is quoted in the news columns as saying that the people of Washington seem to be on a regular spree of painting and decorating." A chronicler of the news says that "never before has so much painting been in progress at one time as at the present, and painters as well as dealers in paint-ing materials and supplies say that a more general effort is being made this spring to make the national capital a spotless town than ever before."

Men have not needed to be told that a fresh dress of paint may make an old house look new and that a new house with a worn and shabby coat of paint may look old. It is also true that the proper application of paint may keep a new house from getting old. All men know this, but not all men give practical application to the knowledge.

It is to be noted that when a man It is to be noted that when a man becomes enough interested in a house to treat it to a good painting his interest will probably extend to straightening up the porch, stopping the leaks in the roof, pointing up the chimneys, renewing worn-out shutters, doors and windows, putting in a new board where the flooring has become too old, and perhaps he may give joy to his wife by ordering in the paperhanger to help restore the house to its former state of coziness and comfort. and comfort.

With fhese germs of household betterment stirring within him, he will also probably get busy with the garden. Ragged grass will be cropped and the bare places in the lawn will turn green. Flowers will begin to bloom and the front fence and gate will be mended. The home will be happier and more valuable. Neighbors will become infected with the suggestion and will go to work. The whole neighborhood will take on an aspect of thrift and prosperity.

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