

NOTES BY THE WAYSIDE . . .

by J. J. Inskeep, Extension Agent

Notes by the Wayside
Here is some advice on fertilizer use for snap bean growers. This material is taken from our notes during a district conference on fertilizer at Oregon State college recently.

In trials conducted at various locations throughout the state, maximum yields have resulted of approximately 75 pounds of actual nitrogen per acre applied annually in addition to other elements as described below. Nor does

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the form of nitrogen used seem to make much difference. Ammonium nitrate provides 33.5 pounds of nitrogen for each 100 pounds of fertilizer used, ammonium sulphate 20, and urea 45 pounds. Placing the fertilizer about 2 to 3 inches to the side of the seed and about 1 to 1-2 inches deeper than the seed will help get the beans off to a thrifty start. At least one-half of the nitrogen and all of the phosphate should be applied at seeding time.

The soil should contain from 120 up to possibly 240 lbs. of available phosphoric acid. A reliable soil test will indicate the additional amount needed. Average bean yard tests run about 40 lbs per acre. In this case, if the individual decided to provide 200 lbs. of actual phosphoric acid, he would add 160 lbs.

Treble phosphate contains 45 pounds of phosphoric acid per 100 lbs. of fertilizer in the sack. Superphosphate contains 18 to 20 lbs.

The soils department at Oregon State has failed to obtain consistent results from use of pptash because most of our bean soils seem to contain enough potash. However, if the analysis shows less than approximately 250 lbs of available potash per acre, it will be well to add about 200 lbs. of muriate of potash. Muriate of potash provides about 60 lbs. of pot-

ash per 100 lbs of fertilizer. When potash is used, we suggest banding, along with phosphate, at planting time.

Extension agent Leon Garoin has not noted systems of potash deficiency in Clackamas county bean yards but such deficiencies have shown up in other parts of the Willamette Valley on Sauvies Island. Once deficiencies of either phosphorus or potash show in the field, it is too late to correct them for the current growing season.

Sulphur deficiencies have not shown in bean yards to date. However, many phosphate bearing fertilizers also carry adequate quantities of sulphur and the same is true of ammonium sulphate. Treble phosphate and ammonium nitrate carry smaller quantities of sulphur. The point is this—unless the grower is using some other fertilizer supplying sulphur it will be well to provide 100 lbs. or so of landplaster a year as insurance.

It is desirable to ask for analysis of magnesium along with the test for other elements. But before applying magnesium, someone with a good knowledge of soil management should be consulted. Magnesium need is directly related to the amount of calcium and potash found in the soil, plus the amount applied. There is no general answer to the magnesium question. Bean growers should not

use boron on our soils. What would be considered a normal application of borax for alfalfa, cole crops, and root crops will prove very toxic to bean plants. Just use same it may be well to secure a test for boron along with the general soil test. But don't apply any borax without the test and then without consulting with someone who has expert knowledge of the subject.

Five Clackamas county dairy herds qualified for the county honor roll by producing 40 or more pounds of butterfat during the month of December, according to Hugh Caton, county agent.

The monthly reports of W. J. Allen, Richard Gale, and L. C. Berney, DHIA supervisors, list the high-producing herds owned by: James A. Morgan, Hubbard, 40.8 pounds with 19 cows, 2 dry; Arlo and Jean Thompson, 42.4 pounds with 24 cows, 2 dry; Antoinette Vanderbeck, Mt. Angel, 42.3 pounds, with 24 cows, 3 dry; Charles Couche, Sherwood, 41.4 pounds with 27 cows, 3 dry; and Sea Lion Dairy, Aurora, 40.8 pounds with 51 cows, 8 dry.

The three DHIA supervisors also recorded 19 individual cows which made outstanding records of 75 pounds of butterfat or more during the month of December. They are: Cynthia, a registered Jersey owned by James A Morgan, Hubbard, with 78.7 pounds; D 10, a registered Jersey owned by John Gale, Canby with 78.2 pounds; Nos. 78 and 81, Guernseys owned by Sea Lion Dairy, of Aurora, with 78.2 and 78.3 pounds respectively; Niy and Judy, a Jersey and a registered Jersey owned by Earl Barber, Aurora, with 78.1 and 88.9 pounds respectively; Topsy, a registered Jersey owned by Charles Couche, Sherwood, with 76.1 pounds; Bell, a registered Jersey owned by Harry Lane, Sherwood, with 77.9 pounds; Actress, a registered Jersey owned by G. F. Levin, Oregon City, with 75.3 pounds (21 days); Wisteria, a registered Jersey owned by G. F. Levin, Oregon City, with 79.8 pounds; Bess McLily, registered Brown Swiss, owned by Meier Dairy Farm, Boring, with 75.9 and 95.2 pounds respectively; Vessi and Grace, registered Jerseys owned by Antoinette Vanderbeck, Mt. Angel, with 97.2 and 83.3 pounds respectively; Bouquet, a registered Jersey owned by Rex Ross, Mt. Angel, with 87.2 pounds; Rocket, a registered Jersey owned by Kehrlly Jersey Farm, of Molalla, with 75.0 pounds; Honey, a registered Jersey owned by Mr. and Mrs. Arno Scheller, Colton, with 76.2 pounds; and Paula, a grade Holstein owned by J. B. Lausen, Beavercreek, with 77.9 pounds of butterfat.

Tiny, a registered Holstein owned by Dr. J. B. Harrison, Eagle Creek, topped the list of roll of honor cows in December by producing 692.1 pounds of butterfat and 15276 pounds of milk in the 305-day lactation period completed in December. No. 56, a registered Guernsey owned by Staehely Brothers, Oregon City, was in 2nd place with 652.3 pounds of butterfat and 12714 pounds of milk. The 3rd place cow was Dolly, a registered Jersey owned by John Lienhart, of Woodburn, which produced 631.4 pounds of butterfat and 11533 pounds of milk in her last 305-day lactation period.

The three DHIA supervisors posted the results of 2573 cows during the month of December. A. G. Riehle, Oregon City, is again a member of the association on the owner-sampler plan.

Owners interested in testing should contact one of the DHIA testers or the county agents office in Oregon City.

Experiments conducted up to this time by the soils department at Oregon State indicate maximum snap bean yields result from a sand of two plants to the foot.

Why do we dwell at length on fertilization of pole or snap beans? Because, according to extension agent Leon Garoin, the Willamette Valley is the best snap bean growing area in the United States. In 1955 Clackamas county grew 325 acres of irrigated pole beans which grossed the growers \$296,000. Clackamas county bean growers last year paid out \$125,000 in picker wages.

SPRINGWATER

Four Springwater residents were specially honored in installation ceremonies at Mt. Chapter, O. E. S. in Estacada last Friday evening. Del and Nita Gant were installed as worthy patron and worthy

matron, respectively; Elmer Linn was installed as associate patron and Eleanor Newell was installed as Martha. A number of Springwater friends attended the ceremonies. Don and Reitha (Gant) Thomas came from Oregon City for the event as did Delmer and Norma Gant from Three Lynx.

The Nick Hinchliffes returned last Saturday from a three weeks visit in McFarlane, California, near Bakersfield, at the home of Mrs. Hinchliffes' mother Mrs. Williams. They reported finding nearly summer weather in Bakersfield, after traveling through innumerable detours on the southward trip, due to the rains.

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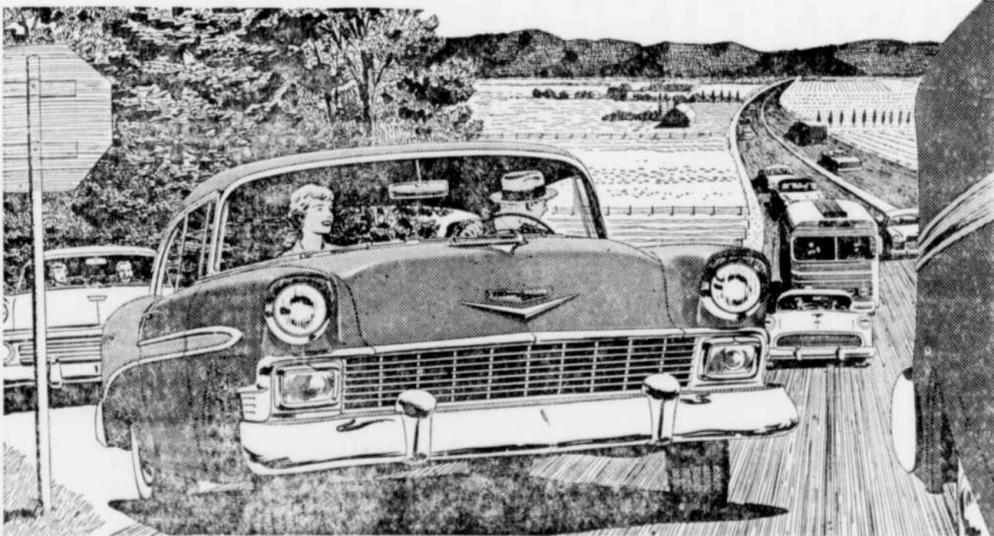
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