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********** SWINE DEPARTMENT

Our readers are invited to ask questions in regard to swine. These will be answered in this department. You are also invited to offer helpful suggestions or relate experiences through these columns.

Luccescescescescesces Notes on Swine Experiments

Notes on Swine Experiments

The following notes are gleaned from the results of swine experiments at the O. A. College, Guelph, as set forth by Prof. Geo. E. Day in the annual report of his Department.

The average cost of one pig, 11 weeks old, omitting risk, interest, labor and manure is 82.46. This average is struck from nine sows that raised 72 pigs.

In 1906 with 12 sows Professor Day found that on an average a pig six weeks old cost the Department \$1.27 Last year higher prices were charged for food than in 1906, so that a cost of \$2.45 for a pig 11 weeks is a better record than in 1906. The improvement is due mainly to the fact that the sows raised larger litters in 1900.

POOR RESULTS FROM PASTURE

Feeding on pasture proved the least economical of the methods used in the experiments of 1910. While this will be a surprise to many it is in harmony with previous results from pasturing hogs at the Guelph Institution

tion.

Feeding green alfalfa with meal to hogs in pens gave excellent results.

Skim milk and meal gave large returns, but the combination of skim milk, alfalfa and meal gave the lar

gest returns. One pound of meal was shown to be equal to 4.2 lbs. green affalfa, whereas one pound of meal was demonstrated to be equal to 6.79 lbs. skim milk. This is a remarkable showing for alfalfa, and it indicates great possibilities for this crop as a means of reducing the cost of producing pork when fed with a meal ration.

Green alfalfa cannot be used in as large quantities in the ration as skimmed milk, but it can be grown so cheaply that it can be used to much better advantage than the skim milk for pigs over three months old, even if skim milk can be bought at 10 cents a wit. One pound of meal was shown to be

for pigs over three months old, even if skim milk can be bought at 10 cents a cwt.

The alfafa used in the tests at fuelph was second and third growth of good quality, which is more suitable for pigs than the first cutting. RETURNS FOR FEED

In the College report for 1907 there is a table showing the prices yielded for food consumed by 297 hogs at various selling price per lb. live weight for the hogs. The table shows that if the hogs were sold at:

(a) Sc a lb., they would give \$23.87 at on for meal, 20c a cwt. for milk, and 10c a bushel for roots.

(b) Sc a lb., \$30.71 for meal, 20c for milk, and 10c for roots.

(c) To a lb., \$37.55 for meal, 20c for milk, and 10c for roots.

Regarding the hogs used in the 1910 test taking things into consideration as set forth in the report the following shows the prices which would be realized for foods consumed by these hogs had they been sold at sea lb., Se a lb., and Sc a lb., 10c weight.

a lo., oc a lo., . live weight:
(a) 5c a lb., \$20.45 a ton for meal, 0c a cwt. for milk, and \$3 a ton for 20c a cwt. for green alfalfa.

green sifalfa.
(b) 6c a lb., \$31.30 for meal.
(c) 7c a lb., \$42.16 for meal.
(d) 8c a lb., \$43.50.0 for meal and
20c for skim milk and \$3 for green
alfalfa, in each case.
It is of interest to note that the
results agree fairly well with those
reported in 1907. These results also
show that the hog is able to give a
good account of the food he consumes when it is sold at 6c or more
a lb.

Alfalfa For Swine

Alfalfa For Swine

Alfalfa will give better results for hog raising purposes than any other forage known. It is a nitrogenous forage, rich in protein and calcium, protein for the protein for

plowed and worked until a firm bottom with a fine seed bed on top was obtained. This was then worked once each week thereafter until August 16th, when two bushels of soil, taken from a field growing successfully a crop of alfalfa, and six barrels of lime were sown, and then the plot seeded to alfalfa at the rate of 30 pounds an arce. A very thick, heavy stand was obtained, which was pastured for the first season in 1910. The experiment was begun with the number of 10 an arce, at which peer fine the sake of the alfalfa, to reduce the seed of the alfalfa forge was 606.8 pounds an arce. With pork at six cents the return paste in the seed of the alfalfa forge was 505.71; with pork at emaindeen of the ed horse, the seed of the seed froughts the seed of the seed for the seed for

(11)

Holds the World's Record as a food for Horses, Cattle, Sheep, Pigs, and Poultry

IMPORTED BY

ANDREW WATSON

25 Front Street, East, Toronto, Ont.

91 Youville Square,

AN INTERPROVINCIAL PRIZE DAIRY FARMS COMPETITION

Another dairy farms competition, similar to the one held so successfully during 1909 and 1910, will be held this year [1911] throughout Ontario and in the Beauharnois District, Quebec. The contest will be continued during 1912, and possibly during 1913, to decide the best dairy farms and farmers in the two provinces. The competition will be conducted by FARM AND DAIRY, of Peterboro, Ont., the only farm and dairy paper published in Canada, assisted by a committee of prominent farmers and dairymen.

FIFTY HANDSOME PRIZES

PIFTY HANDSOME PRIZES

During 1911 Ontario will be divided into four districts, which with the Beauharnois District, Que, will make five districts in all. A special competition will be held in each district. Ten handsome prizes will be offered in each of these divisions or 50 in all. Next year (1912) it is proposed to hold a final or semi-final competition between the leading prize winning farms in each of these five districts to decide the best dairy farms in all these districts. A special Ones will contain the series of the se

In this year's contest (1911) the first five prize winning farms in the provincial contest held in Ontario during 1910, as well as the four farms that won the first prizes in their districts in 1909, will not be allowed to take part

THE DISTRICTS

The five districts in which contests will be held the year (1011) will be approximately as follows: DISTRICT No. 1.—The Beauharnois District, Que., comprising the counties of Beauharnois, Chat-eauguay and Huntingdon.

DISTRICT No. 2.—That portion of Eastern Ontario lying East of a line running North from Kingston.

DISTRICT No. 3.—The counties in Eastern Ontario between Kingston and Yonge St., Toronto. DISTRICT No. 4.—Western Ontario, North of a line running from Hamilton to Goderich.

DISTRICT No. 5.—Western Ontario, South of a line running from Hamilton to Goderich.

These districts (except No. 1) are subject to revision after the entries have been received to facilitate the judging of the farms.

JUDGING THE FARMS, THE POINTS OFFERED

The farms will be judged in July, (1911), by two judges. Where competition is close for some of the leading prizes in any or all of the districts, the judges will have the privilege of visiting such farms again next winter, before making their final awards.

All departments of the farm will be included in the competition. A total of 1050 points will be of-fered, subdivided as follows:

House 155, viz., plan, finish and approaches, 25, lawn 20, garden and orchard 35, arrangement of house 25, sanitation 15, ice and water supply 16, education, including books and periodicals, 20; total, 156.

Buildings, 175, viz., provision and size 25; location 25, condition 20, neatness 20, convenience 25, light and ventilation 25, water supply 25, yard, 10: total, 175.

Live stock, 210, number 40, quality and condition 40, breeding 40, feeding 20, horses 30, swine 25, poultry 15; total, 210.

Crops, 215, viz., suitability for milk production 50, yields and condition 75, freedom from weeds 75, pastures and shade 15; total, 215.

pastures and shade 15; total, 216.

Management, 140, viz., arrangement of fields 20, rotation 23, fences, gates, ditches and roads, 20, workmanship and neatness 25, preservation of manuer 20, bookkeeping and records 20, summer water supply 10; total, 140.

Machinery 75, viz., supply 25, housing 20, condition of repair 20, character 10; total 75.

Permanent improvement 80, viz., public roads 10, freedom from obstacles 25, drainage 25, beautifying 20, total, 80. Grand total, 1050.

The farms in each district scoring the highest number of points will be awarded the prizes. During 1012 the prize winning farms this year will be allowed to compete in a final or semi-final competition to decide the best ten dairy farms in Ontario and in a special competition to determine the best dairy farm in Ontario and Quebec.

For further particulars, entry forms, etc., write the Secretary of the Committee,
H. B. COWAN, FARM & DAIRY, - PETERBORO

PETERBORO, ONT.