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Two bulls 10 and 20 months; one whose dam gave 11636 lbs. of milk in eleven months. These are good individuals. Could spare a few females. Herd headed by Green Leaf Record = 96115 = and Dictator whose two nearest dams average over 12000 lbs. in R.O.P. test. Long distance telephone connection.

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I am offering five choice bulls from 10 to 12 months old. Their Grandam a Mina Gem, has a R.O.P. of over 10,000 lbs. Quality and satisfaction guaranteed.

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BULLS BULLS BULLS

I have for sale 4 very high class Shorthorn bulls, 2 yearlings and two years old. These bulls are to be sold immediately, and the price will be right. Don't over look this chance. Barred Rock Cockerels, \$5.00 apiece. S. Dymont, Barrie Ont.

Graham's Dairy Shorthorns

I have a choice offering in cows and heifers in calf. Bulls from the heaviest milking strains. Satisfaction guaranteed.

Charles Graham, Port Perry, Ont.

Questions and Answers. Miscellaneous.

Thrush.

I have a horse that is lame from thrush. What is the treatment? J. W. H.

Ans.—Clean out the affected parts thoroughly and then fill with calomel. This has resulted in a cure. Some use formalin in place of calomel. It is advisable to remove the cause, which in many cases is from a horse standing in a wet stall or on wet soil.

Tons of Hay in Mow.

How do you figure the number of tons of hay in a mow? B. G.

Ans.—It is generally estimated that 450 cubic feet of settled hay will weigh a ton; therefore it would be necessary to find the cubical contents by multiplying the length by the breadth by the depth and then dividing by 50 to get the number of tons.

Drain from Milkhouse.

I have a milk house from which there is a drop of 2 feet. I have an under-drain within a rod of it. If I connected the milk house with this drain would it have a tendency to lower the temperature of the milk house? J. P.

Ans.—We cannot see how the drain would affect the temperature of the milk house in any way. It would merely be a means of getting rid of the water.

Indian Runners.

To what age is it profitable to keep Indian Runner Ducks for laying purposes? J. W. C.

Ans.—The data that I have would indicate that two years would be about the limit for profitable egg production from Indian Runner Ducks, and the majority of the growers of Ducks, for this purpose, with whom I have conversed, are rather of the opinion that one year is more profitable. We have not had sufficient personal experience with them to be able to give an opinion of our own. W. R. G.

Fertilizing a Garden.

Does it pay to use a fertilizer on the garden, and if so what kind and how should it be applied? J. N. P.

Ans.—Crops grown in the garden usually respond to liberal fertilizing. It is necessary that the soil be filled with humus and there is no better way of incorporating this is the soil than by plowing under barnyard manure. Special mineral fertilizers may be used to advantage with certain crops; for instance, nitrate of soda applied at intervals through the season forces the crop. For tomatoes and similar crops phosphates in the form of ground bone, or ground rock, is beneficial. Potatoes respond to applications of potash. The phosphates of potash are usually applied previous to or at the time of planting. Nitrate of soda leaches readily, therefore it should be applied during the growing season.

Cement and Gravel for Wall.

1. I am planning on building a barn 38 by 66 feet, with a horse stable 22 feet wide across the east end, the remainder to be cow stable and root cellar. The cow stable is to occupy a space 19 feet wide on the south side, and also 19 feet long on the north side, the south and end walls to be 3 feet high of concrete; the north wall 8 feet high. I am planning on a mixture of one part cement to two parts sand and four of gravel. How much material will be needed?

2. Where can I get Henry's "Feeds and Feeding," and "Farm Management," by Warren. B. J. H.

Ans.—1. For the walls and floor, mixing in the strength you mention and making the wall 1 foot thick, it will require 59 cubic yards of gravel and 67 barrels of cement. We do not know whether you were considering a footing for this wall. We believe it necessary. A footing about 18 inches wide and 18 inches deep should prove satisfactory. If the ground is soft, the foundation should be deeper to be safe. For a footing of the dimensions above mentioned it will require about 15 cubic yards of gravel and 17 barrels of cement. Quite a few small field stones could be worked into the footing.

2. "Feeds and Feeding," by Henry, can be secured through this office for \$2.50. "Farm Management," by Warren, can be secured for \$1.95.

Important Notice

REGARDING THE
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Every animal has been carefully tested, and is guaranteed to pass re-test in sixty days, and not later than sixty-five days, from date of original test. Such re-test to be conducted by Canadian Government Inspector or United States Federal Inspector or authorized State Veterinarian.

Each lot is insured for sixty days from date of sale with General Animals Insurance Co., Montreal, Canada, against death from any cause. Policy will cover full value at price bid off through sale, and will be made out in favor of purchaser."

Sale at Guelph, Ontario

Friday, Feb. 7th, 1919

Following the Toronto Combination Sale, Feb. 5, and the Mercer-Curry Sale, Feb. 6. (Both sales at Union Stock Yards, Toronto.)

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1919

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