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Females; all ages, with calves at foot and safe in calf again
All bred by the leading sives
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Four Aberdeen-Angus Bulls Two herd headers and wo useful bulls to use on grade cows. Barred Rock eggs at \$4.00 per 100. JAMES BOWMAN, Elm Park,

Here's a snap: Two Durham bulls, 2 years old, and one 18 months, two sired by a Royal Sailor bull that would weigh 2,300 lbs., and one by an imported sire. For quick sale \$75 each. Barred Rock eggs. 5 settings for \$2 An imported Shoemaker and eral home-bred roosters used in flock W. R. BOWMAN, Mt. Forest, Ontario.

Aberdeen-Angus bull for sale, Black Diamond, No. 826, 3 years old this spring. A good individual and extra stock-getter; has never been beaten in show-ring. Price reasonable. Also one Chester White boar,

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Angus Cattle for Sale—Our present offer-ing: Three young bulls and a few females of the best strains. Prices very rea-sonable.

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A few choice bull calves from my imported stock.

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Two about 16 months and three from 8 to 10

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Twelwe high-class bull calves and 4 yearling and 9-year-old bull, we will place at a price that will move them quick. Some choice cows and heifers are yet left for sale. Address: A. F. O'NEIL, Maple Greve P.O.

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QUESTIONS AND ANSWERS. Miscellaneous.

CEMENT CONCRETE FOR WALL.

I am about to build a concrete wall, 110 feet long and 9 feet high, for barn basement. What cement is best to use, and in what proportions should the gravel and cement be mixed? What thickness should the wall be made, and how many barrels of Portland ceme t will it take to build such a wall? Please give all information you can. *

S. A. K.

Ans.-Ordinary good gravel in making cement concrete is used in the proportion, by measure, of nine to twelve parts of gravel to one of Portland cement. It would be very unwise for us, if we knew, to say which brand of cement is best. Concrete walls for barn foundations are usually made one foot in thickness. Where field stone, not too large, can be got, it is well to imbed as many as possible in the wall, but, so as not to come within an inch of either face, as thereby cement and gravel both are saved. The wall you purpose building would require from 27 to 30 barrels of Portland cement. T. B.

FERTILIZING PROPERTIES OF NITRATE, COMMERCIAL POTASH AND ASSES.

Will you kindly give, through your 'Questions and Answers' department, the relative fertilizing properties, per of sodium nitrate, potash (of commerce), wood ashes and coal ashes?

Ans.-Comparing the fertilizing properties of sodium nitrate and potash is much like comparing the nutritive properties of salt and sugar, Sodium nitrate is a nitrogenous fertilizer. As such, it promotes stem and leaf growth, and imparts a healthy green color to the leaves. Potash, contained in sulphate of potash, muriate of potash, kainite, wood ashes. etc., is just as essential as nitrogen, but has somewhat different functions. It seems to be essential in the formation and transference of starch in -plants, and thus, indirectly, in sugar production. It plays an important part in the development of wood structure, and of the fleshy portions of fruit. It is also, in part, a neutralizer of plant acids. There are two ways of valuing fertilizers. One is the commercial valuation, i. e., the price per unit of value at which the various fertilizers can be purchased in the market. There is also the agricultural value, i. e., the price at which we can afford to purchase these and make a profit out of their use. The agricultural value depends largely upon circumstances. The agricultural value of nitrogen is usually less than the commercial value, for the reason that on a well supplied with the other elements of fertility, legumes may be grown to gather nitrogen from the air, thus procuring it very much more cheaply than it can be bought in commercial forms. If all the nitrogen sold in the form of crops and animal produce cost us as much as the estimated valuation of nitrogen in commercial fertilizers, we would soon go out of business, unless prices for our produce were greatly advanced. We will answer the question, however, according to commercial valuations, as this is about the only stable basis of comparison. Nitrate of soda carries about 16 per cent. of 'nitrogen, worth 15c, or 16c, a pound. It is thus worth about \$2.40 to \$2.50 per cwt. Muriate of potash and high-grade sulphate of potash contain about 50 per cent. of potash, worth from 41c, to 5c. a pound, sulphate being rather the more valuable of the two. This figures out to about \$2.25 per cwt. for the muriate, and about \$2.50 for high-grade sulphate. Kainite, as purchased on the market. will run about 12 to 13 per cent. potash, worth, say, 60c. Dry hardwood ashes, unleached, will run 6 to 8 per cent. potash, and between 1 and 2 per cent. phosphoric acid, and would be worth in the neighborhood of 45c. a Leached ashes would contain practically as much phosphoric acid, but rather less than half the amount of potash, and might be valued about half the price of the unleached. Coal ashes have no fertilizing value to speak of.

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Two red bull calves; 6 heifers, sired by that grand bull sire of unbeaten Fair Queen and sister, Queen Ideal. First prize senior heifer calf at the International, 1904. Also first prize and junior champion, and reserve grand champion at Winnipeg, 1905. H. K. PAIRBAIRN, - Thedford, Ont

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JAMES SNELL, Olinton, Ont.

Shorthorns Have several good ones for sale between 5 and 10 months old Also a few heifers at very reasonable prices, bred to sons of Imp, Royal Sailor and mp. Wanderer's Last.

J. R. McGallum & Sons. lona Stn., Ont.

SHORTHORNS AND DORSETS We are offering at living prices two 2-year-old and two 1-year-old heifers, a couple of young bulls and the stock bull. White Count 37871. The offering is a lot of good stuff and in good condition. Also a few H rned Dorects. D. BARTLETT & SONS, Smithville P.O. and Sta.

MAPLE LEAF STOCK FARM 4 Cholos Yourig Bulls for Sale. Also some cows and heifers, and prizewinning Berk-shire pigs. Terms reasonable. TERREL GROFF. Alma P.O. & Stn., G.T.R.

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