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Good Shorthorn Bulls not all sold. I have 2 roans, 17 and 12 months, respectively; a dark red, 12 months; a white, 11 months; a red roan, 10 months—all straight, smooth, wide, fleshy, strong-boned bulls, showing breed character; some from heavy-bred dams; also five yearling heifers. Price very easy terms for quick sale.

STEWART M. GRAHAM, Lindsay, Ontario

Questions and Answers. Miscellaneous.

Apoplexy—Staggers.

1. Our hens have been dying quite frequently of late. They seem to fall off the roost dead, at night. I am feeding them wheat and buckwheat, and all the water they will drink. Is there anything to give them in the water to drink that would help them; if so, what would you give them?

2. What should you do for a little pig that backs up and throws itself down after eating? Am feeding buttermilk and shorts.

SUBSCRIBER.

Ans.—1. This appears like apoplexy, due, no doubt to the hens being too fat. Anything that will encourage them in more strenuous exercise will be beneficial. Feed less fattening food, and force them to take exercise out of doors where they may procure sufficient green food. Oats and some barley would be a better mixture of grain.

2. This trouble is quite common in young pigs, and is due either directly or indirectly to indigestion. Try them with dry meal or grain on a plank, that it may be eaten slowly, and give, if possible, a little new milk. Provide a mixture of charcoal, ashes, and salt, where they may procure it at will. Have them out on a free run, if possible, and try and restore their digestion to normal again.

Stable Construction.

1. I am building a cattle stable, and intend putting a concrete floor in same; also concrete walls. The root cellar is to be underneath the stable, and will be 75 feet long by 12 feet wide. Three feet of wall will be under the ground and three feet above. That part of wall above ground will have to be constructed with a dead-air space. How should it be done?

2. The cellar will be underneath the feed passage and where the cattle stand. What material should be used for reinforcing the floor, and will it be necessary to have supports through the center, or will the reinforcing be sufficient?

M. A. S.

Ans.—1. Frost-proof walls were discussed in our number of June 5, 1913, but they might be rather expensive for your proposition as described therein. You could construct a frost-proof wall by building a thin cement wall outside the main one, leaving an air space between. All these will incur considerable expense, and it is doubtful whether they are absolutely necessary or not. Roots keep tolerably well under barn approaches, which are simply constructed with one cement wall. In your case, to insure further security from frost, it might be advisable to line the inside of the wall after studding it, which would provide an air space. This would be less expensive than a double wall, and should give the required results.

2. The stable floor would not require posts in the center if properly reinforced. To insure strength, railroad rails are satisfactory, if you are in a position to procure them; failing this, procure what are called I beams of steel, and place them about 2½ or 3 feet apart. Steel beams with the strength of an ordinary rail would be satisfactory at this distance. The concrete work, too, should be well reinforced with expanded metal or wire webbing made for the purpose. Continuous iron rods throughout the cement would also add strength. Firms advertising in these columns whose specialty it is to provide material for barn and stable—construction work, would be in a position, we think, to furnish you with this material. The number of cattle will produce considerable weight on the floor and necessitate its being well reinforced, but with this establishment of steel reinforcement and well strengthened with wire, with a fair thickness of cement, it will do very well without up-rights under the floor.

George Allen & Sons, of Lexington, Nebraska, sold at auction, at South Omaha, Neb., April 22nd, forty-nine head of Shorthorns which averaged \$254, the highest price being \$495 for the roan six-year-old cow, Lady Douglas, purchased by Bellows Bros., of Missouri, four other females selling for prices ranging from \$350 to \$410.

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are so simply constructed that it is almost impossible for them to get out of order, and will last for years. They are constructed throughout of steel and malleable iron and, equipped with an automatic double action force pump of brass, they are supplied with two sets of adjustable spray nozzles, which are also adjustable to varying heights, and are operated by one horse.

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I have twenty good Imported Bulls on hand 11 and 12 months, will deliver any of them to any place in Ontario or Quebec for \$135.00; also have a few good heifers 11 and 12 months old, will sell for \$110.00 each.

L. O. CLIFFORD, Oshawa, Ont.

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Our 1913 crop of 22 bulls are all sold, we have 20 extra bull calves coming on for the fall trade. For sale—25 heifers and young cows; those old enough are bred to Right Sort (imp.), or Raphael (imp.), both prize winners at Toronto last fall.

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