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**The International**

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Some right good young Angus bulls and heifers for sale.

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"The Champion Oxford Flock of America"  
Winners at Chicago International, Toronto, London, Winnipeg, Regina, Brandon, Saskatoon, Edmonton, Calgary and Lethbridge Fairs. Present offering—75 ram and ewe lambs, 46 yearling ewes (some fitted for show), also 15 yearling rams which will make excellent flock-heads. Consult us before buying.

**Peter Arkell & Sons, Teeswater, Ontario**

**Sheep, Swine and Seed Corn**—Young stock of both sexes in Dorset Horn and Shropshire sheep and in Swine: Poland Chinas, Duroc Jerseys, Berkshires and Chester Whites. Also Seed Corn, all varieties. Consult me before buying. Cecil Stobbs, Leamington, Ont. Phone 284, M.C.R., P.M., & Electric Ry.

**TAMWORTHS**

45 young sows, bred for Spring farrow and a few choice young boars, registered. Write for prices before buying elsewhere.  
**John W. Todd, R.R. No. 1, Corinth, Ont.**

**Chester White Swine**

Orders taken for Spring pigs.

**John Pollard, R.R. No. 4, Norwich, Ont.**

**Morrison Tamworths and Shorthorns**—Bred from the prizewinning herds of England. A choice lot of young sows to farrow in April, dandies and young boars, also choice young bulls and heifers in calf sired by Proud Royalist (Imp.) from extra choice milkers. **Chas. Currie, Morrison, Ont.**

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**Cloverdale Large English Berkshires**  
Sows bred, others ready to breed; boars ready for service; 200 from six to twelve weeks old, both sexes, pairs not akin. All breeding stock imp. or from imp. stock. Prices reasonable.  
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Both sexes and all ages from imported stock. Prices reasonable.  
**C. A. POWELL**  
Ettrick, - R. R. No. 1 - Ontario

**TAMWORTHS**

Several very choice sows bred for early spring litters; also one boar ready for service.  
**HERBERT GERMAN, ST. GEORGE, ONT.**

**Elmfield Yorkshires**—A few young sows and boars and sows 2 to 3 1/2 months from choice breeding stock. Can supply pairs not akin. **G. B. Muma, R.R. No. 3, Ayr, Ont. Phone Ayr R.R. 55 ring 2, G.T.R., Paris or Drumbo, C.P.R., Ayr.**

**Berkshires and Jerseys**—Berkshires from prizewinning stock on either side, Toronto, London and Guelph Winter Shows, 1913. Registered Jerseys from heavy-milking, high-testing dams. Young stock of either for sale at reasonable prices.  
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Champion herd at Toronto and London Fairs; also Dorset Horn Sheep, young stock of both sexes for sale. **W. E. WRIGHT & SON,**  
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**Questions and Answers. Miscellaneous.**

**Barn Approach—Separator Room—Book on Birds.**

We have built a new barn 40 by 62 feet, covered with corrugated iron on cement wall 10 feet high with driveway on both sides, not wholly completed. Would you publish plans and ideas for a root-cellar under the driveway, 16 feet by 14 feet in size? Could the roof be made strong enough for a driveway and would it require supports from the floor? What thickness should roof be and what reinforcements would it require? In what proportion should cement be mixed?

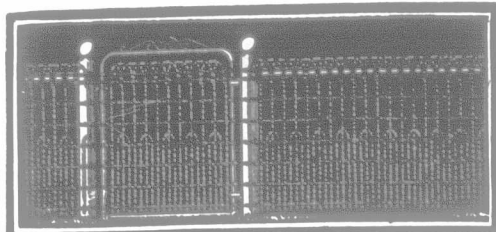
2. How should a separator room be built in the north corner of the stable? Would a room 10 feet by 12 feet be large enough? How should walls and ceiling be finished, etc? The room would have two windows.

3. Also inform me whether I could get books on our Ontario birds and farm insects, regarding their forms, habits and foods. Where can I get them and at what price? **J. E. C.**

**Ans.**—1. The roof of a root-cellar can be made strong enough to support a team and load without supports. In starting in to construct a passage-way of this kind, first build the walls about 10 inches thick with a mixture of cement 1 to 8. In building this wall, build the walls all at one time, as it is impossible to get a good bonding at the corners where the sides and ends are built separately. Raise the walls to within 8 inches of the required height of the cement structure. In the last course of the walls imbed some large spikes or pieces of iron over which to hang woven wire for reinforcing. To construct a form upon which to build the roof get a number of posts and place them in rows making some shorter than the others, upon these place two thicknesses of 2 by 4 scantlings, the top of which should come to within 3 inches of the top of the side walls. After these posts are set up with the scantling on them make them secure by bracing, so there will be no possibility of a lateral movement or a shifting in any way. After the scantlings have been made secure to the post, on top of them place a layer of plank and put a board along the side walls to extend 8 or 10 inches above to retain the concrete. Wedge up the posts from the bottom so the plank will be even on top and lay with the desired fall. The forms are then ready for the cement. Mix the cement 1 to 8 and place a layer about 1 1/2 inches thick upon the plank, then use 60-pound steel rails, which can usually be procured from the railroad company. These should be placed 3 1/2 feet apart, more cement can now be placed, filling the rails almost to the top. The next reinforcing should be woven wire, which may be fastened to the spikes or irons that were imbedded in the side walls. This can then be covered with more cement until the thickness amounts to about 8 inches from the planks. In order to provide a trap-door through which the roots may be placed in the cellar make a bottomless box 18 inches wide by 2 feet long, from boards 10 inches wide. Set this bottomless box on the plank about 4 feet from the barn door or wherever the hole is desired. An off-set should be made on the edge of the door which may be covered with two plank doors leaving an air space between. The surface should then be covered with a cement-concrete wash mixed quite wet in the proportion of one to four. Later the whole surface including walls should be washed with pure concrete and water.

2. A room 10 feet by 12 feet should be large enough for an ordinary dairy. Before constructing the dairy-room in the stable it would be well to consider the regulations of the trade to which you intend to cater. Some city trades stipulate that the milk-room must be a certain distance from the stable. When putting up a structure of this kind it is wise to look to the future. If the walls are concrete, they should be washed with a mixture of one to two and later with cement and water mixed quite thickly. If the ceiling is of wood tongued and grooved stuff would be best to finish with.

3. The following books may be had through this office: Insects Injurious to Fruits, \$2.15 postpaid; Insects Injurious to Vegetables, \$1.50 postpaid; Birds that hunt and are hunted, \$2.25 postpaid.



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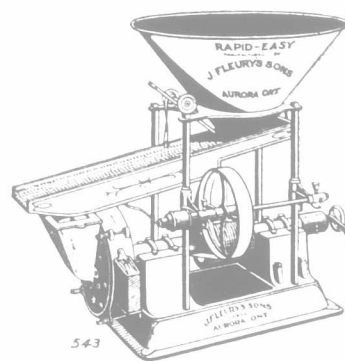
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I have now for sale 30 extra large covered shearing rams, 100 shearing ewes and a very fine lot of lambs from my imported stock. Will be pleased to book orders for delivery later of any kind wanted.  
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I have at the present time some extra good Hampshire boars, 5 and 10 months old, that I will offer at a price that will sell them during the next 10 days. These hogs will be sure to give satisfaction. Write for prices.  
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Boars and sows all ages, sows bred others ready to breed, all descendants of Imp. and Champion stock. Several choice young bulls from 10 to 18 months old and a few calves recently dropped, all at reasonable prices.  
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