

Fresh Running Water

For Farm and Country Homes

Just turn a faucet, and the water gushes out in a fresh, pure, abundant stream.

Think of it! No more water to carry by hand for drinking, cooking, washing, scrubbing or for watering the stock. Isn't that a convenience that appeals to you?

In no other way can you invest the same amount of money to eliminate as much hard work as by the purchase of an

Empire WATER SUPPLY System

Empire Systems are simple in design, compact, powerful. Never freeze. Always ready for instant use—day or night. There is an Empire System suited to the needs of every home, and priced so reasonably that no home need go without it.

Write For Free Booklet

We want to tell you about the many advantages of the Empire System. Our free booklet gives descriptions and illustrations. We will also send you an Information Blank, which, when filled out, will enable us to send you full particulars and the cost of a system adapted to your particular needs. Get posted—write to-day.

Empire Manufacturing Co., Limited. HEAD OFFICE AND FACTORY: London, Ont.
Branch Office and Warehouse: 119 Adelaide St. W., TORONTO, ONT.

MESSRS. A. J. HICKMAN & CO., (Late Hickman & Scruby,) Court Lodge, Egerton, Kent, England. Exporters of **PEDIGREED LIVE STOCK** of all descriptions. Speciality made of draft horses, beef and dairy breeds of cattle, show and field sheep. Illustrated catalogues and testimonials on application. All enquiries answered with pleasure. New is the time to import. Prospects were never better, and insurance against all war risks can be covered by payment of an extra 1% only.

Yorkshires

We are now booking orders for spring pigs. Four large litters of excellent bacon type to choose from.

WELWOOD FARM
Farmer's Advocate, London, Ont.

Featherston's Yorkshires—The Pine Grove Herd I have the choicest lot of young sows of breeding age that were ever on the farm. A few are already bred. Also have 10 young litters. Prices reasonable. J. K. FEATHERSTON, STREETSVILLE, ONT.

Lakeview Yorkshires If you want a brood sow or a stock boar of the greatest strain of the breed, (Cinderella), bred from prizewinners for generations back, write me. **John Duck, Port Credit, Ont.**

SPRINGBANK CHESTER WHITES Several young sows, ready to breed, and boars fit for service; young pigs, both sexes, ready to wean, by Sunny Mike—15917—first at Toronto in 1917. Satisfaction guaranteed, inspection invited. **Wm. Stevenson & Son, Science Hill, Ontario**

PROSPECT HILL BERKSHIRES Young stock, either sex, for sale, from our imported sows and boars; also some from our show herd, headed by our stock boar, Ringleader. Terms and prices right. **John Weir & Son, Paris, Ont., R.R. 1**

TAMWORTH'S

Young sows bred for spring farrow and a nice lot of young boars for sale. Write: **John W. Todd, R. R. No. 1, Corinth, Ontario**

Meadow Brook Yorkshires Have a splendid offering of young stock to offer at reasonable prices. . . . Write your wants to: **G. W. MINERS, R. R. No. 3, EXETER, ONT.**

Please mention this paper

"Bissell"

A NAME THAT HAS BECOME FAMOUS

A good name is the greatest asset any man or any business can possibly have, providing the name stands for quality and thoroughness in the product it represents.



T. E. BISSELL

Experienced farmers in Canada and the U. S. vouch for the name Bissell—they have used Bissell Disk Harrows and Bissell Land Rollers and know that they stand the wear and tear of hard farm work which is the endurance test of any implement. "Bissell" Implements are built from the practical farmer's standpoint to do the work properly, and efficiently,—and results show that they do it.

Bissell Implements are strongly constructed, of light draught and correct proportions, assuring the farmer of standing up to the hardest kind of work, yet being easier than any others on the horses. Built also in sizes for use with Tractors.

T. E. BISSELL CO. LTD., ELORA, ONT.

Morrison Tamworths and Shorthorns—Bred from the prizewinning herds of England. Tamworths, both sexes; boars from 1 to 12 months. Shorthorn bulls from 5 to 10 months old, reds and roans—dandies. **CHAS. CURRIE, Morrison, Ont.**

DUROC JERSEYS Our herd won all champion prizes at Toronto and London, 1916 and 1917. Pairs not akin. Young stock, all ages for sale. Visitors welcome. For further particulars write: **CULBERT MALOTT, No. 3, Wheatley, Ont.**

ELMHURST LARGE ENGLISH BERKSHIRES From our recent importation of sows, together with the stock boar, Suddon Torredor, we can supply select breeding stock, all ages. Satisfaction and safe delivery guaranteed. **H. M. VANDERLIP, Breeder and Importer, R. R. 1, BRANTFORD, ONTARIO.** Langford Station on Brantford and Hamilton Radial

BERKSHIRES

My Berkshires for many years have won the leading prizes at Toronto, London and Guelph. Highcleres and Sallys, the best strain of the breed, both sexes, any age. **ADAM THOMPSON, R. R. No. 1, STRATFORD, ONT. Shakespeare Station, G.T.R.**

Cloverdale Shropshires and Berkshires—40 shearing rams, 70 shearing ewes; an exceptionally choice lot, true to type and well grown, nearly all sired by the show ram, Nock 16 Imp. In Berkshires, the usual strong offering, including sows just bred. **C. J. LANG, Burketon, Ont.**

Shropshires and Clydesdales Besides my regular offering of ram and ewe shearings, I have the three-year Clydesdale stallion, Cairnbrogie Heir 18299. Write quick, don't wait. **W. H. PUGH, Myrtle Station, R. R., Ontario**

Questions and Answers.

Miscellaneous.

Enlarged Heart.

A sow weighing about 400 lbs., due to farrow early in May, died a few days ago. For several days previous to death we noticed she would pant considerably after feeding. After she died we opened her and found the liver a bad color and the heart enlarged to about three times its natural size. Near where the blood enters and leaves the heart there was a hard substance of greenish color. What would cause the heart to enlarge?

T. I. F.

Ans.—This is rather an unusual occurrence, and it is rather difficult to state just what would be the cause of the trouble. Evidently both the liver and heart were affected, and the affection of one or both was the direct cause of death. It sometimes happens that a growth will occur on some of the vital organs, which may not seriously interfere with the animal's health for a time, but when it reaches a certain stage causes death.

Hen-house—Length of Rafters.

1. We purpose raising fowl on a large scale for market and would like to know what length and width to build a hen-house for breeding fowl. The house is to have seven compartments to hold eight birds each; each compartment to be separated by wire netting and boards at the base.

2. Will matched lumber on the inside and underside of the roof be satisfactory, or would it be better to use rough lumber and prepared roofing on the outside and metal lath and cement plaster on the inside?

3. Are light Brahmas raised on the Weldwood Farm?

4. Our hog pen which runs east and west is too low at the sides to put in windows. The width is 16 feet and the height from the centre of the pen to the peak of the roof is 5 feet. We intend to leave the south half of the roof as it is and raise the north half 5 feet at the centre, or it will be 10 feet perpendicular and 8 feet horizontally. What length of rafters will be required for the north half, adding a foot for projection at both top and bottom?

5. Where and by whom is the "Railway Aids Gazette" published?

C. M. T.

Ans.—1. A bird requires 4 or 5 feet of space. Thus for a pen of eight birds about 35 square feet would be required, which could be secured in a pen 5 x 7 feet. This would be housing the birds pretty closely and we would prefer a larger pen. A long house about 14 feet wide, leaving 10 feet for the pen and 4 feet for the passage-way or feed-room would be a fairly good width. This passage-way is really only an added expense, as the attendant may go from pen to pen in feeding, provided there is a door in the partitions. This house could be divided into pens from 8 to 10 feet wide, and eight birds would have plenty of room; in fact, a few more birds could be comfortably housed. This house should face the south and the front could be part glass and part cotton. In regard to the wire netting for separating the pens, this would be very satisfactory but we would advise using matched lumber and boarding it solid as far out as the roosts project, and also have tight partitions to the height of 2 feet from the floor right across the pen, to prevent a draft on the birds when they are on the roost and when they are scratching.

2. In building a pen as suggested, we believe you are going to unnecessary expense. There is little need for double boarding unless it be on the north side. Many birds are kept in a pen made of single-ply matched lumber, with one-third of the front glass and one-third cotton. The roof is sheathed with rough lumber and then roofing put over it. It is not essential that the pens be kept warm, provided they are dry, bright and well ventilated. It is dampness in the pen which causes a good deal of trouble, and this will be overcome by using the cotton front.

3. White Wyandotte is the breed of fowl kept at Weldwood.

4. The rafters would be 14 feet 9 inches, allowing for 1 foot projection at both top and bottom.

5. We have not the information at hand.

Patent Solicitors—Feth
The old established firm
Head Office, Royal Bank
Ottawa Office, 5 Elgin
out Canada. Booklet