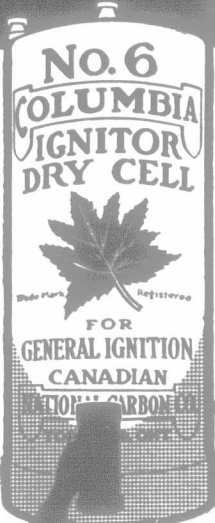


Columbia Batteries

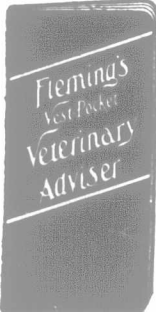
When you want a battery to light a lantern or run an engine, here's the name to remember—**"Columbia."**

Canadian National Carbon Co., Limited
Toronto, Ontario
Flashlight spring-clip binding posts, no extra charge.



Heaves

CURED



—by removing the cause—and cured to stay cured—If 3 boxes of **Fleming's Tonic Heave Remedy** fail to effect a cure of any case, old or new, we will refund the full amount paid.
Per Box, \$1.00; 3 for \$2.50. Mailed on receipt of Price.

Scratches Disappeared
Gentlemen—I gave a course of your Tonic Powders, which has put a horse and his mate in fine shape, and a touch of scratches has quite disappeared.
Geo. A. Miles, Oxville, Alta.

Full information in **Fleming's Vest Pocket Veterinary Adviser**
Write us for a Free Copy

FLEMING BROS., Chemists
75 Church St. - Toronto, Ont.

TAMWORTHS

FOR SALE

Large number of choice males and females. All ages.

Herold's Farms, Beamsville, Ont.

Duroc Jersey Swine. I have been importing and breeding Duroc Jerseys for twenty-five years. Present offering some choice sows, bred; a few sows six months old and a number of pigs two months old.
Charles Farough R. R. 1, Maldstone, Ont.

TAMWORTHS

Young sows bred for April and May farrow, and a nice lot of young boars for sale. Write:
JOHN W. TODD, R. R. No. 1, Corinth, Ont.

Cloverdale Berkshires and Shropshires—In Berkshires I can furnish boars or sows, all ages, pairs not akin. All breeding stock imp. or from imp. stock. In Shropshires can furnish rams or ewes, any age, from imp. stock. Prices reasonable.
C. J. LANG, R. R. No. 3, BURKETON, ONT.

Morrison Tamworths and Shorthorns. Bred from the prize-winning herds of England. Tamworths, both sexes, 140 to choose from; Shorthorns, 5 bulls, from 5 to 10 months old, reds and roans, dandies. Females of the best milking strains. CHAS. CURRIE, MORRISTON, ONT.

Yorkshires Sows bred and younger; boars 2 and 3 months, sire, Our Champion, winner of 12 firsts and 5 championships in 2 years' showing at Toronto and Ottawa.
Bronze turkeys from prize-winning stock.
WM. MANNING & SONS, Woodville, Ont.

Meadow Brook Yorkshires—Am offering sows ready to breed and a few choice boars fit for service; also several litters ready to wean Dec 1st. All bred from prize-winning stock. Prices reasonable.
G. W. MINERS, R. R. 3, EXETER, ONT.

Champion Berkshires—When buying, buy the best; our present offering are sons and daughters of the two great champions, Lucky Lad and Baron Compton, and out of winners, including champions. Both sexes.
W. W. Brownridge, Georgetown, Ont., R. R. 3

Berkshire Pigs Registered stock, choice bred young boars, and sows in pig, all ages. Can supply pairs not akin.

CREDIT GRANGE FARM,
J. B. PEARSON, Mgr., Meadowvale, Ontario

Swine for Sale Am offering choice stock in Poland-China and Chester White swine of either sex; most any age. First-prize Poland-China herd, London and Toronto, 1915. Prices reasonable.
GEORGE GOULD, R. R. 4, ESSEX, ONT.

Questions and Answers.

Miscellaneous.

Nitro-culture—Diagnosing Contagious Abortion.

1. Will nitro-culture which was prepared in 1916 be satisfactory to use in 1917?
2. Can a veterinarian, by examining a herd of cows, tell whether or not they are affected with contagious abortion?
3. Hog buyers in this district charge one-half of one per cent. for government inspection. When did this tax come into force, and who was responsible for it?

A. B.

Ans.—1. The culture should be made fresh each spring to be most effective.
2. Not by physical examination.
3. Thix tax is levied by the Stock Yards Company to cover the loss of animals condemned by government inspection of dressed carcasses. It came into force several years ago at the instigation of the stock yards' men.

Unhealthy Birds.

We have about thirty hens and two turkeys. A number of the hens appear dumpy for a few days and then die. The feathers were all off their heads, as if they had been picked. We have lost five already and several of the others are ailing. They are given plenty of fresh water and are fed well on mixed feeds. The birds that died were very poor. G. D.

Ans.—It is rather difficult to diagnose the case from the description of the birds given, but we are rather inclined to think that the birds were affected with vermin. Examine the healthy birds and note whether there is any vermin on the head or under the wings; if so, rub a little grease on the head and dust the body thoroughly with some insect powder. It will be necessary to thoroughly clean the pen and spray it with kerosene to which has been added about 5 per cent. carbolic acid. The birds may be suffering from some other complaint, as a very thin condition indicates tuberculosis, but other symptoms of this disease would be lameness and white tubercles on the liver. If this disease is in the flock it would be advisable to have a general clean-up, and treatment is not effective.

Silos—Ration for Cows.

1. We purpose building a silo in the spring. Which would you advise, wood or concrete silos, taking into consideration the quality of the feed and the life of the silo?

2. If we build a concrete silo, do you advise plastering on both inside and outside, or just whitewashing it with cement a couple of times?

3. What is the best means of ventilating a hog pen? We purpose building one about 40 by 20 feet.

4. We milk several cows but they do not produce as satisfactorily as we would like. We are feeding one-half gallon of bran, one-half gallon shorts, one-half gallon of oat and buckwheat chop, and a couple of handfuls of oil cake, besides clover hay, bean straw and sorghum. What else could I feed to give a balanced ration?

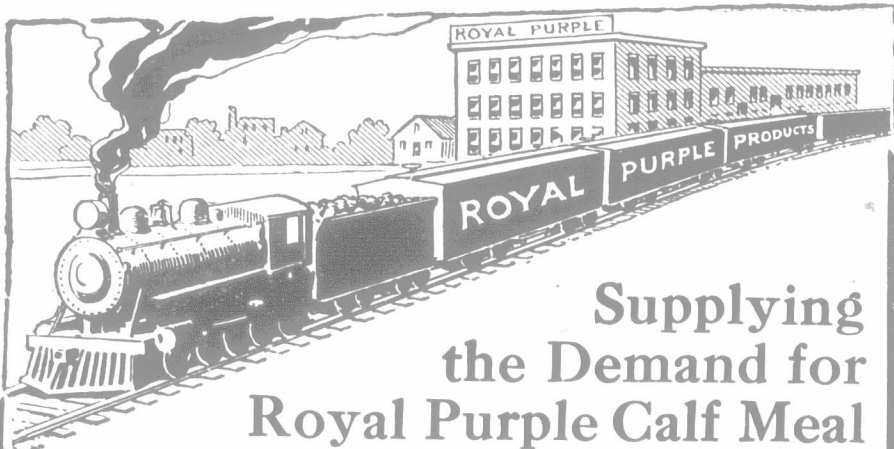
A. E.

Ans.—1. Both concrete and wooden silos give very satisfactory results. Some prefer one kind; some another, and silage appears to keep equally well in both. Concrete is generally looked upon as more permanent, but a good wooden silo will last many years.

2. Whitewashing the silo with cement is more easily done than plastering and proves very satisfactory.

3. A couple of flues might be put in extending from the ceiling to the roof, to carry away the foul odor. Fresh air may be brought in through the windows. We have known a number of pens to be ventilated in this way which were entirely satisfactory. A number of the windows may be entirely removed and cotton tacked over. This allows fresh air to penetrate without causing a draft.

4. If the cows are not milking very well you are feeding rather heavily on concentrates. If you had succulent feed to go with the roughage, that part of the ration could not be improved very much, and in regard to concentrates one pound of a mixture of bran, shorts, oats and buckwheat to four pounds of milk would be considered sufficient. If the cows receive plenty of clover hay and silage or roots, it does not pay to feed too much concentrates unless they pay for it in milk. A little oil cake aids in increasing the protein.



Supplying the Demand for Royal Purple Calf Meal

This baby food for young animals is partially pre-digested, and can be fed to the youngest animals with perfect safety. It WILL NOT cause stomach or bowel trouble, which are serious ailments in young animals. Royal Purple is a sure preventive for scouring.

Calves Gain Rapidly Without Milk

When the calves are 3 or 4 days old they can be fed Royal Purple Calf Meal and raised just as well without one drop of milk. What prominent breeders remark:

Mr. Geo. W. Collins, Plainfield, Ont., writes: "Gentlemen,—In regard to your Calf Meal, I think you have the best on the market, as people who have bought it give it great praise. Some have taken their calves off sweet milk, and feed them nothing but your Calf Meal and water, and say they are doing as well on it as they did on the whole milk."

To Whom It May Concern:

This is to certify that I have secured your "Royal Purple" Calf Meal from our druggist, Mr. T. C. Nicholls, of Uxbridge, and can speak of this meal in the highest terms. I have used other calf meals, but this one is the best I ever tried. I never saw a calf gain more rapidly and thrive better than mine did while using your "Royal Purple" Calf Meal. I can cheerfully recommend it to all our stockmen who wish to raise large, healthy calves."—Stanley W. Croxall.

Note—The above Mr. Croxall keeps a large herd of pure-bred Holstein cattle, and is an excellent authority on Calf Foods.
Royal Purple Calf Meal is equally good for young colts, lambs and young pigs. Put up in 25-lb., 50-lb. and 100-lb. bags. Secure it from our dealer in your town.

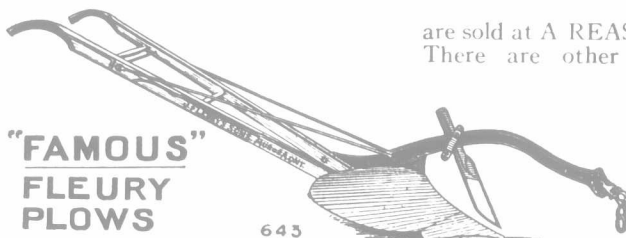
W. A. Jenkins Mfg. Co., Ltd., London, Can.

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Send for our 80-page book which describes the common diseases of stock and poultry; also methods of feeding and our many products. Get a copy to-day.

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Plows LEAD ALL OTHER Walking Plows in LIGHTNESS of DRAUGHT, EASE of HOLDING—in QUALITY of WORK in the field. SCORES of THOUSANDS of Famous Fleury Plows have been sold and bought and used; many men have followed a Famous Fleury Plow for 30 or 40 years, and declare "THERE ARE NO PLOWS LIKE FLEURY'S." Special Plow Folder on request.

J. FLEURY'S SONS, Aurora, Ontario Medals and Diplomas—World's Fairs, Chicago and Paris

YORKSHIRES FOR SALE

We have a large number of choice young males and females.

Weldwood Farm, Farmer's Advocate, London, 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, Ont.
Langford Station on Brantford and Hamilton Radial.

TAMWORTHS AND SHORTHORNS

Young sow due to farrow within a month. Young pigs, both sexes, all descendants of Imp. and Silver Medal Stock. Ten young heifers and cows, grand milking strain, in calf to Broadlands No. 87903
A. A. COLWILL, R.M.D. No. 2, NEWCASTLE, ONT.

LYNNORE ENGLISH BERKSHIRES

FOR SALE—Young stock of both sexes, bred from imported animals, high-class in type and quality. Also we are now offering for sale highly bred imported stock boar and sows. Write for particulars
F. WALLACE COCKSHUTT, BRANTFORD, ONT.
Lynnore Stock Farm—English Dairy Shorthorns & Berkshire Pigs.

Oak Lodge Yorkshires

We are in a position to supply boars and sows of different ages. We have an established type of Yorkshires that have been produced through many years of careful breeding and selection.

J. E. BRETHOUR & NEPHEWS, Burford, Brant County, Ont.

DUROC JERSEY SWINE, JERSEY CATTLE

In Duroc Jerseys we have either sex of any desired age, bred from winners and champions for generations back. In Jerseys, we have young cows in calf and young bulls, high in quality and high in producing blood.
MAC CAMPBELL & SONS, NORTHWOOD, ONT.

MAPLEHURST HERD OF TAMWORTH SWINE

S.-C. W. Leghorns, White Rocks, Bronze Turkeys, Toulouse Geese and Pekin Ducks. This herd has won about 90 per cent. of the prizes offered in the last ten years at the Canadian National, Toronto, Ottawa, London, and Guelph Winter Fairs.
D. DOUGLAS & SONS, R. R. No. 4, MITCHELL, ONT.