

International Live Stock Show

November 29th to December 6th
Union Stock Yards, CHICAGO
The Victory Carnival of the Live Stock World.
The Criterion of All Stock Shows.
Daily Sales of Pure-bred Stock
FOLDED HEREFORD SALE—Tuesday, Dec. 2nd, 1.00 p.m. For catalogue write B. O. Gammon, 324 Valley National Bank Bldg., Des Moines, Ia.
ABERDEEN-ANGUS SALE—Wednesday, Dec. 3rd, 1.00 p.m. For particulars write Chas. Gray, Union Stock Yards, Chicago.
FOLDED SHORTHORN SALE—Thursday, Dec. 4th, 10.00 a.m. For catalogue write J. H. Martz, Greenville, Ohio.
SHORTHORN SALE—Thursday, Dec. 4th, 1.00 p.m. For catalogue write F. W. Harding, Union Stock Yards, Chicago.
HEREFORD SALE—Friday, Dec. 5th, 1.00 p.m. For particulars write R. J. Kinser, 1,009 Baltimore Ave., Kansas City, Mo.
Study intimately the Art of Breeding.
Learn to reduce the HIGH COST OF LIVING by economic feeding methods.

The International Hay and Grain Show for Chicago Board of Trade Prizes.
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Price \$2.50 a bottle. Sold under a positive guarantee since 1896. Your money back if it fails. Write for Fleming's Vast-Pocket Veterinary Advisor 96 pages and illustrated. It is free. Fleming's Chemical Horn Stop. A small quantity applied when calves are young will prevent growth of Horns. A 50c tube sent postpaid in enough for 25 calves.
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Choice bred heifers. Bulls 8 to 15 months. Southdown ewes in Lamb.

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by clipping the cow's flanks and udder every month. Then with a damp cloth wipe the parts off in a hurry. There is no long hair to hold the dirt and the milk is clean and wholesome as it falls into the pail. Clipping all over twice a year is good for the cows. A Stewart No. 1 Machine is best. It will clip horses also. Get one from your dealer or write direct to us.
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Nine extra good young bulls for sale. Also females all ages. Show-ring quality.
THOS. B. BROADFOOT - FERGUS, Ont.

Housing Swine in the Winter.

BY W. C. MCKILLICAN, BRANDON EXPERIMENTAL FARM.

In providing shelter for swine during the winter months the chief consideration is dryness. Other points such as warmth and ventilation are important and closely related, but the absolute essential is dryness. Buildings heated by the warmth of animals have a great tendency to excessive moisture, because the warmth comes chiefly from the animals' breath which is moisture-laden. An excessively moist atmosphere is detrimental to the health of any animal, but to pigs it is particularly objectionable, as they are more subject to rheumatism and other troubles traceable to dampness.

WINTERING IN PIGGERY.

The brevity of this article will prevent any full discussion of piggery construction, but a few essentials may be noted. Cement floors are the best from the standpoint of sanitation and durability, but a pig should never lie on a cement floor. Sleeping platforms should be provided. These may be raised only an inch or two above the cement or may be elevated so that there is a two-story pen with a gangway up to the sleeping quarters. Cement should not be used for piggery walls; it makes a damp building. Wooden walls with plenty of insulation by means of paper and dead air spaces are best. A piggery should have ample sunlight, and the rays should shine on the sleeping quarters, keeping the bedding dry and sweet. The area of glass should not be extreme, however, as that defeats the object, making the building too hard to warm and consequently damp. The ceiling of a piggery should not be too high; a low ceiling allows the place to warm up more readily and facilitates ventilation. A good system of ventilation should be installed, or a straw-filled loft with slatted ceiling may take the place of the foul air vents.

WINTERING IN STRAW PILE.

Where straw is plentiful, pigs may be wintered quite successfully in a large pile of straw. A start at a burrow in the straw should be made for them by threshing the pile over a clump of bushes, some home-made trestles, a fence or other obstacle that will make a hollow place in the centre of the pile, and a runway out from it. The pigs will then burrow from this and make their own nests.

Where the amount of straw to be used is not unlimited, the same kind of shelter can be made with much less straw. The shelter place should be surrounded by a fence and roofed over with poles. A second fence should surround this at a distance of at least six feet. Straw is then perched in the intervening space and piled over the top. A crooked entry passage at the south side will allow the pigs to come in and out without too much direct draft entering the pen.

WINTERING IN CABINS.

Pigs can be wintered quite comfortably in the ordinary cabins used for providing shelter on pasture in summer. Where the location is well drained, and the climate dry, these cabins are better without floors. The pigs work the soil into a fine dust which makes an excellent warm bed. Floors up a distance from the ground have a cold draft under them, and are likely to be wet from the pigs' urine unless bedding is changed frequently. However, on level locations and in wet climates, where the earth would be muddy, it is necessary to put in a wooden floor. Where this is done, the cabin should be well banked with earth or manure, so that the cold air cannot blow under the floor, and dry bedding given whenever needed. The ordinary A-shaped cabin is found very satisfactory at Brandon, and is cheaply and quickly made. A cabin with straight walls and shingled roof is more durable, but considerably more expensive. Two or more of these cabins may be placed in a row, and the space between filled with straw. Straw should be piled against the sides of the end cabins. It is advisable to keep the pigs away from this straw, or they will tramp it down and carry it into the cabins. An odd length of woven fencing is quite suitable for this purpose.

Brood sows wintered in such shelters as above described, are found to winter better than in the most elaborate piggery.



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CORRESPONDENCE and INSPECTION INVITED
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Highland Park Scotch Shorthorns

Herd headed by Imp. Edgcote Broadhooks, one of the best breeding bulls in the Country. Imported and Canadian bred females for sale, bred to the herd bull, some having calves at foot and bred again to him.
This is a choice offering. Prices reasonable.

W. C. SUTHERLAND, - R. R. 7, - GALT, ONT.

ELMGROVE SHORTHORNS, YORKSHIRES

Owing to pressure of other business I will not hold my annual sale of Shorthorns this fall but am offering privately a limited number of young cows, several with calves at foot, and also a few choice-bred heifers near calving. The most select offering I ever had on the farm and all showing in good condition.

In Yorkshires I have several bred sows; a few boars of serviceable age and some young litters.
JAS. R. FALLIS, Elmgrove Farm, BRAMPTON, ONT.

Plaster Hill Herd Dual-Purpose Shorthorns

For sale ten young bulls from large, deep milking cows, with records up to 12,000 lbs. 15 cows and heifers heavy producers mostly all in calf to Green Leaf Record 96115 or Dictator whose two nearest dams average over 12,000 lbs.

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The Salem Herd of Scotch Shorthorns

HERD HEADED BY GAINFORD MARQUIS, CANADA'S PREMIER SIRE

Write us about the get of Gainford Marquis. They have won more at Toronto and other large exhibitions than those of any other sire. We still have a few sons to offer, as well as females bred to Canada's greatest sire.

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Shorthorns and Clydesdales—College Duke 4th in service. Three nearest dams and sire's dam have milk records averaging over 9,000 p. unds. Six bulls of serviceable age; also a few females. One extra choice yearling stallion by Imp. Dunure Beaulieu.
Write STEWART M. GRAHAM, Lindsay, Ont.

SHORTHORNS SHROPSHIRE COTSWOLDS
Blairgowrie Stock Farm
Cows in calf and calf by side. Also heifers in calf and others ready to breed. Bulls of serviceable age.
JNO. MILLER (Myrtle Station, C.P.R., G.T.R.)

FOR SALE A Dual-purpose Shorthorn Bull, roan, nine months, good type. Dam came second in her class in 1917 official test. Sire's dam and grandam both made high official records.
D. Z. GIBSON, - CALEDONIA, ONT.

Newcastle Herd of Shorthorns and Tamworths for Sale—5 choice bull calves, 5 to 6 months old, several heifer calves, all sired by Primrose Duke 107542. heifers and young cows bred to him; good dual-purpose cows. A choice lot of Tamworths of both sex and various ages; young sow or two bred to farrow in Sept. or Oct., all from noted prize winners.
Long-distance 'Phone A. A. COLWELL, R. R. No. 2, Newcastle, Ont.

Pure Scotch and Scotch Topped Shorthorns—We have several choice young bulls of the best of breeding and ready for service. Two are by Raphael (Imp.), one by Right Sort (Imp.), one by Sixtyton Selection, and several by our present herd sire, Newton Cedric (Imp.). Prices right.
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Herd headed by Lord Rosewood =121676= and by Proud Lancer (Imp.). Have a few choice bull calves and heifers left, sired by Ecanna Favorites, a son of the famous Right Sort (Imp.).
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1854 Maple Lodge Stock Farm Shorthorn 1919
Cattle and Leicester Sheep "Hean Dorothy Star" (Imp.) at head of herd—
1 red bull calf, dam and grandam R.O.P. cows, 13 months and two roan calves younger. For sale now. Lucan Crossing 1 mile east of farm. Miss Charlotte Smith, Clandeboye, R. R. 1, Ont.