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THE EDWARD CHRISTMAN CO.
Massillon, Ohio

Spring Grove Stock Farm

Shorthorn Cattle and Lincoln Sheep

First herd prize and sweepstakes
Toronto Exhibition, 5 years in suc-
cession. Herd headed by the imported
Duchess bull, Rose Morning, and
White Hall Ramson. Present crop of
calves sired by Imp. Prince Sunbeam
St. Toronto, Ont.

High-class Shorthorns of all
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Also prize-winning Lincolns. Apply
T. E. ROBSON, Iderton, Ont.

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We have for sale some good young cows and
heifers, of the Fashion and Belle Forest fam-
ilies, in calf to Scottish Rex (imp.) or Village
Earl (imp.), our present herd bull. For prices
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12 Shorthorn Bulls

Choice Scotch-Bred, for sale at mod-
erate prices. For particulars, apply to
J. & W. RUSSELL, Richmond Hill, Ont.
Yonge St. trolley car from Union Station,
Toronto, passes the farm.

MAITLAND BANK SHORTHORNS.

Imp. Broadhocks Prince 55002 at head of herd.
Five young bulls and a number of females, got
by imp. bull, and some of them out of imp.
cows, all of choice Scotch breeding, for sale at
lowest prices for quick sale.

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MAPLE HILL SCOTCH SHORTHORNS
STOCK FARM
of best families. Herd headed by the grandly
bred Lavender bull, Wanderer's Star -4865-.
A few choice young bulls.
Box 424. WM. E. ELLIOTT & SONS, Scotch, Ont.

SCOTCH-TOPPED SHORTHORNS

Five choice young bulls, 8 to 12 months; also
four heifers. W. H. WALLACE,
Woodland Farm, Mt. Forest, Ont.

SHORTHORNS AND DORSETS.

3 bulls, seven to nine months old; also a few
ewe lambs and ewes in lamb for sale. Prices
reasonable. R. H. HARDING,
Mapleview Farm, Thornedale, Ont.

EVERGREEN Scotch-Topped Shorthorns
STOCK FARM
Young stock of either sex by imp. sire at reason-
able prices. For particulars write to
DONALD McQUEEN, Landerkin P.O.,
Mount Forest Sta. and Telegraph.

FOR SALE—A few young bulls from a few
days to six months old; cows and
heifers all ages; one bull (calved in May) with
imp. British Statesman and imp. Diamond Jubilee on
top of pedigree; also Loyal Duke =55026= (imp.)
Fitzgerald Bros., Mount St. Louis.

ELMVALE STATION, G. T. R.

LAKEVIEW SHORTHORNS.

Spicy King (imp.) at head of herd. Young bulls
for sale reasonably. For prices, etc., apply to O
THOS. ALLIN & BROS., Oshawa, Ont.

High-class Shorthorns—We are now offer-
ing 5 young bulls and
3 heifers, two, three and four years of age.
Marigolds the eldest, a daughter of Imp. Royal
Member, has a calf at foot by Sailor Champion.
This is an extra good lot.

THOS. REDMOND, Millbrook P.O. and Sin.

PROSPECT STOCK FARM. For sale: 4
Shorthorn
Bulls, including Gold Mine (imp. in dam), also
some choice young females. Stations: Cooks-
ville and Stroudville, G.P.R.; Brampton, G.T.R.
Peel Co. F. A. Gardner, Britannia, Ont. O

which I mean the ends of the steers' tails, go for curled hair, used principally in the manufacture of mattresses.

When I worked in the country in a slaughter house, we never thought of saving the tail. This is one of the profitable by-products, and a very large number of them are shipped to England and elsewhere. Refrigeration has made a great help in this respect. We freeze the tails, and pack them in boxes for shipment. They are used for ox-tail soup, stews and various other dishes.

In speaking of the casings, which are used almost exclusively for sausage purposes, and other offal, I would say that when we killed a bullock in the country we threw away nearly everything but the live, which was given in turn to the boys in town, one of whom was usually awaiting his turn outside. That is now all done away with. We get a fair price for the livers, of which a great many are exported.

In a large packing-house, where they kill four or five thousand steers a day, you could scarcely imagine what would become of so many hearts. In Scotland they use a great many. They are made into what is called "minced collops." Large quantities of them are consumed in this form by the Scottish people.

Then there are the medicinal by-products, some of which are quite valuable.

Pepsin, obtained from the red portion of the inner lining of the stomach.

Pituitary, or the small reddish gland located in the sphenoid bone at the base of the brain.

Sub-maxillary or salivary glands located below the hinge of the lower jaw bone, or immediately beneath the thyroid gland.

Parotid, or the small gland lying close to the ear.

Prostate glands.

Thymus glands or neck sweet-breeds, lying close to the breast on the outside, at the point where the arteries flow from the body to the head, and used principally to reduce glandular swellings.

Red bone marrow.

Pancreatin, which is of the pancreas, or sweet-bread.

Spleen, or melt.

Mammillary glands of the milk-bag or udder.

In addition to the above, some of which are desiccated and others made into extracts and used for various medicinal purposes, the articles of greatest importance and value to the medical profession are the suprarenal and thyroid glands. Suprarenal glands are the two small glands lying close to the kidneys and in shape resembling them, being dark in color, and about the size of a large lima bean. I am informed it takes the suprarenal glands from about 1,800 steers to make an ounce of adrenaline in its concentrated form, which is used in the treatment of the eyes, for which purpose it is very valuable, and also a hemostatic, or to prevent the flow of blood during difficult surgical operations. Owing to the scarcity of these glands, and their great value for the above as well as other purposes, I am told adrenaline ranges in price somewhere between gold and radium.

Thyroid glands, which lie close to the larynx, and are dark in color, somewhat resembling a leech, are used in the manufacture of thyroidine and similar medicines, the principal use of which is in the treatment of goitre.

From this, you will see that we are not only indebted to the steer for food and clothing, but medicine as well.

Oleo, you, of course, understand, is made from suet fat, out of which the oleo oil is pressed, leaving a product known as stearine, which latter is used largely by candymakers, and so far as I am concerned, I prefer that my children should buy such candy. Oleo is used extensively by bakers. The oleo oil is exported principally to Holland, and there converted into butterine by being churned with a small quantity of cream or butter, and is sold principally in England and other European countries. The Hollanders are the very best customers we have for oleo products.

In this connection I want to call attention to the tax on colored butterine, imposed by the United States Government, which greatly affects the value of oleo in this country, and consequently the price of cattle. Some have estimated that it costs cattle producers one dollar per head to maintain this law in force.

I presume you would like to know where the marrow goes. In canning cattle we take the marrow out of the bones, which is used in Africa as butter, being sent there in cans in great quantities. I am informed they prefer it to butter.

When canning cattle the bones of the carcass are removed, thoroughly cleansed and dried, a great many of the larger ones being exported to Japan, where they are expert in carving them. I have no doubt some of you have been shown a sword scabbard by a Japanese, who assured you that particular scabbard had been carried by an ancient Japanese warrior hundreds of years ago, which probably was carved from the bones of a Chicago-killed steer, and then returned to this country as a curio of great antiquity. The larger bones are also sawed into knife-handles and numerous other articles, and in some of the larger packing-houses the sawdust thus obtained is molded under great pressure into billiard balls and other useful and ornamental articles. The smaller bones are used principally in the manufacture of animal charcoal, used mostly for filtering purposes. I have seen a bottle of ink poured into a tube containing animal charcoal and come out as clear as water.

Of course, you all understand something about fertilizers, which are obtained from the cooking tanks, being the residue left after other products are extracted from the small bones, offal and scraps from a packing-house. These fertilizers are usually mixed with a phosphate rock procured in South Carolina and other Southern States, from which the nitrates are obtained. This manufactured product is sent South, and used largely on the cotton lands, and they tell me that at some future time the best-sugar people of the West will be obliged to buy packing-house fertilizer to keep the ground in condition to raise a good crop of sugar beets.

I wish to say a few words regarding the selection of meats in a meat market, as so few housewives understand it. The American people are very peculiar in their extravagance regarding the buying of meats. A 1,200-lb. steer usually produces 250 lbs., possibly 280 lbs., of ribs and loins. It does not seem to matter what a man's income is, whether he is a working man or a millionaire, he usually does not want any part of the carcass but the ribs and loins, and when you hear the high price of meats mentioned, bear in mind it refers to these portions of the carcass, which are the only parts the American people want.

I happened to get off at a street corner in the heart of the laboring district in Chicago the other day and dropped into a butcher shop, as I often do when I have time, and noticed the butcher had nothing but choice ribs and loins hanging on his racks. I asked him why he did not keep some of the cheaper cuts, and he said it was of no use, as his customers would buy only the best. It is no trouble at all to sell the choice portions, but our constant study is to dispose of the balance of the steer, which, as you know, is the greater portion and just as wholesome as the ribs and loins, although, perhaps, not quite so tender, but still very good eating. The result is we have to export the bulk of what we call the rougher meats in pickle or cans, and frequently are obliged to carry heavy consigned stocks in foreign countries before we are able to dispose of the product at anything like the cost to us. The necessities of the maintenance of numerous branch houses and a large force of travelling men all over the world selling the products of Western cattle, the raising of which is an industry you may well feel proud of, owing to the immeasurable, world-wide benefits derived therefrom, only a portion of which I have had time to mention.

THE EUREKA PLANTER CO. AT WOODSTOCK—Our readers will be interested to note that the Eureka Planter Co., which formerly did business at Windsor, is now established at Woodstock, Ont., several well-to-do men of the latter place having purchased a controlling interest in the business—taken over the management, put in considerably more capital, and prepared to go extensively into the manufacture of hand tools for the garden, etc. These goods have sold in Canada in competition with American makes.

Ring-Bone

There is no case so old or bad that we will not guarantee
Fleming's Spavin and Ringbone Paste
to remove the lameness and make the horse go sound. Money refunded if it ever fails. Easy to use and one to three 45-minute applications cure. Works just as well on Sidebone and Bone Spavin. Before ordering or buying any kind of a remedy for any kind of a blemish, write for a free copy of
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Ninety-six pages of veterinary information, with special attention to the treatment of blemishes. Durable bound, indexed and illustrated. Make a right beginning by sending for this book.
FLEMING BROS., Chemists,
45 Church Street, Toronto, Ontario

SCOTCH Shorthorns

A fine lot of imported cows with calves at foot, from first-class imp. sires. Also a fine lot of one and two year old heifers. Three high-class young bulls of the best quality and breeding at easy prices. Am taking orders for any breed of cattle, sheep or swine to be imported in time for the exhibitions the coming season.

H. J. DAVIS,
Importer and breeder of Shorthorns and Yorkshires,
WOODSTOCK, ONT.
C. P. R. and G. T. R. Main Lines.

PURE SCOTCH SHORTHORNS

Herd bulls: Imp. Prime Favorite =45214=, a Marr Princess Royal.

Imp. Scottish Pride =36106=, a Marr Roan Lady.

Present offering:
2 imported bulls.
15 young bulls.
10 imported cows with heifer calves at foot and bred again.
20 one- and two-year-old heifers.

Visitors welcome. New catalogue just issued.

W. G. PETTIT & SONS, Freeman, Ont.
Burlington Jct. Sta. Long-distance telephone in residence.

SHORTHORNS & CLYDESDALES FOR SALE

Bull in service: Scotland's Fame =47897=, by Nonpareil Archer (imp.) (81778) =45202=, dam Flora 51st (imp.), (Vol. 19.) Present offerings: Two heifers rising 1 year old, two bulls rising 1 year old; also young cows and heifers of good quality and breeding, mostly well gone with calf. Also stallion rising 1 year old, sired by the well-known Macqueen, dam from imported sire and dam, and one filly rising one year, sired by King's Crest (imp.). Will sell at a bargain if taken soon.
JOHN FORGIE, Claremont P.O. & Sta.

Clover Lea Stock Farm SHORTHORNS

For Sale: One dark roan bull, got by Nonpareil Archer (imp.), out of a Duchess cow; also one show heifer. Prices reasonable.

R. H. REID,
Pine River, Ont. Ripley Sta., G. T. R.

Hillhurst Shorthorns

Registered bull calves for sale, by Broad Scotch =46315=, from imported English and home-bred dams of good milking strains.

JAS. A. COCHRANE, Compton, P. E.

Queenston Heights SHORTHORNS

One bull, 18 months, extra size and quality Got by Derby (imp.) =3463= Splendid value at price asked.

HUDSON USHER, Queenston, Ont.

For Sale: Shorthorns—One young bull, 14 months old; cows and heifers, all ages. Shropshire, all ages and both sexes.
BELL BROS.,
"The Cedars" Stock Farm Bradford, Ont.

Bonnie Burn Stock Farm offers Scotch and Shorthorn heifers, some bred; also two bulls, one roan, one red, 13 and 25 months, sired by Director 2nd (imp.), and Rustic Chief (imp.), out of Mias 6th (imp.); all Scotch. A bargain, considering breeding.

D. H. RUSSELL, Stouffville, Ont.

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