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SHORTHORNS, COTSWOLDS, BERKSHIRES.

11 bull calves, 10 heifer calves, and 40
head cows and heifers. Ram and ewe
lambs and breeding ewes. Young
boars, April and September litters.

Chas. E. Bonnycastle,
P. O. AND STA., CAMPBELLFORD, ONT.

OAKLAND SHORTHORNS

We have another lot of
young bulls ready for fall
and winter trade, out of
good breeding dual pur-
pose dams and sired by our herd header, Scotch
Grey, 72692, one of the best bulls in Ontario; good
cattle and no big prices. Will also sell a few cows
and heifers; about \$0 to select from.

JOHN ELDER & SON, HENSALL, ONTARIO

Fletcher's Shorthorns and Yorkshires

Stock bull "Spectator" (imp.) =50094=
for sale or exchange; also choice heifers.
I also offer my (imp.) Yorkshire boar for
sale or exchange.

GEO. D. FLETCHER, Binkham, Ont.
Erin station, C. P. R.

GEDARDALE SHORTHORNS—
Shorthorns of all ages, pure Scotch
and Scotch topped, imp. and Canadian-
bred, choice heifers, choice young bulls,
also the stock bull Lord Fyvie (imp.);
anything for sale.

Dr. T. S. Sproule, M. P., Markdale, Ontario

Shorthorns and Oxford Down Sheep

Trout Creek Wonder at head of herd. Young bulls and
heifers of richest Scotch breeding. Phone connection.

Duncan Brown & Sons, Iona, Ontario.

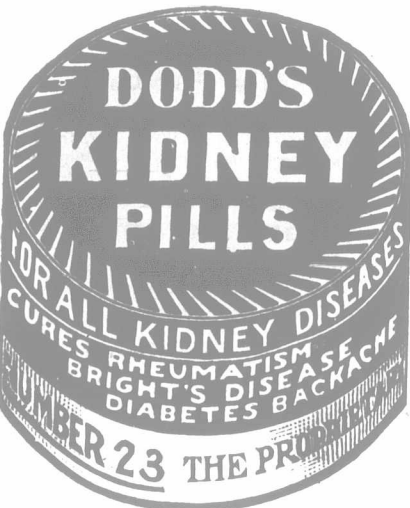
Clover Dell Shorthorns—Choice young ani-
mals of both sexes; milking
strain, red and roan. Prices right. Write, or
better come and see.

I. A. WAKELY, Bolton, Ont.
Bolton Sta., C. P. R., ½ mile from barns. Phone.

Spruce Lodge Shorthorns and Leicesters

Will price cheap young bull from 6 to 14 months;
also 1 and 2-year-old heifers, same from imp. sires
and dams. Leicesters at all times of both sexes for
sale. Phone. W. A. Douglas, Tuscarora, Ont.

Thousands of years ago a leaf fell on
the soft clay, and seemed to be lost.
But last summer a geologist in his ram-
blings broke off a piece of rock with his
hammer, and there lay the image of the
leaf, with every line and every vein and
all the delicate tracery preserved in the
stone through those centuries. So the
words we speak and the things we do
to-day may seem to be lost, but in the
great final revealing the smallest of them
will appear.—James Russell Lowell.



QUESTIONS AND ANSWERS. Miscellaneous.

RATION FOR STEERS.

What would make a balanced ration
of the following for a bunch of 1,100-lb.
steers? Timothy hay slightly mixed
with clover; any amount of roots; fairly
good silage; oat chop; cotton-seed meal,
and oil-cake meal. Would a ration of
the above be equally as good for milk
cows? If not, in what proportion
should it be fed to milk cows? If any-
thing else added, what is it, and how
much of it? J. Z. I.

Ans.—A fairly good ration could be
made from 8 to 10 lbs. of hay, 30 to 40
lbs. silage, 30 lbs. of roots, 6 lbs. oats,
1½ lbs. oil cake, and 1½ lbs. cotton-seed
meal. For the steers, the ration could
be improved from an economic stand-
point by adding a little corn to the
ration in place of some of the oats or
a little of the cotton-seed or oil meal.
For dairy cows of the same weight, the
above ration would prove quite satis-
factory. They might eat a little more
roughage, and if large cows, should be
fed accordingly.

COLT KNUCKLING.

Would you let me know what to do
for a spring colt that is cock-jointed in
both hind legs at the ankle? They
seem to slip over every step he takes.
He got fast in a fence about five weeks
ago, with smooth wire. I think he must
have sprained his pasterns some way.
We have had a boot fastened on the one
fetlock, but now the other ankle is like
the one that has the boot on.

W. W. B.

Ans.—1. Colts that show this weak-
ness before having done any hard work
are very liable to get worse when put
to work. It is sometimes caused by
too much standing in the stable, but
this case is no doubt due to some ex-
tent to the injury from being caught in
the fence. Blister all around the fetlock
joint once every month, with two drams
each of biniodide of mercury and can-
tharides, mixed with two ounces of vase-
line. Cut the hair off and rub the
blister well in. Tie so that he cannot
bite the parts. In twenty-four hours
rub well again, and in twenty-four hours
longer, wash off and apply sweet oil.
Let his head loose now, and oil every
day. Give him a large box stall, and
extra exercise, except during the time he
is tied up to blister.

BARNYARD DRAINAGE—SILOS.

1. How would you advise draining a
barnyard? Pools of water stand around
the barn after a rain or thaw, and cat-
tle tramping in this make it very deep.
I have thought of tiling it, but some
say tile will not work in a barnyard
where so much tramping is done. Would
it be better to gravel it, or tile it, and
then gravel it? About 35 rods from
barn an outlet could be had. If tiling
is best, what size tile should be used?
2. Am thinking of building a silo.
Which would you advise, cement or
stave? A great many say corn does
not keep well in cement silos, and also
that silage freezes to sides badly in
winter. Can this freezing be prevented
in any way? Kindly give your experi-
ence. How much gravel and cement
would be required for a silo 13 feet by
40 feet? A. N. M.

Ans.—1. It is generally believed that
it is a mistake to drain a barnyard.
There is a danger of tile drains clog-
ging. It is better to make the barn-
yard small, and have a slight basin or
depression where the large pile of ma-
nure is to be, and keep the drainage con-
fined to this pile, then the drainage will
be held here, and more or less soaked
up by the manure.

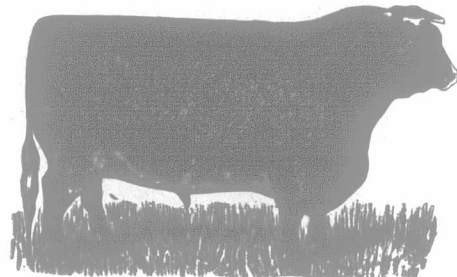
2. Cement slop-wall silo is to be
preferred to a stave silo. In taking
out the silage, keep the edges slightly
lower than the center. This will, to
some extent, prevent freezing, but a lit-
tle trouble may still be found from this
cause. Provide 11 or 12 cords of gravel
and about 48 barrels of cement.

\$15⁹⁵ AND UPWARD SENT ON TRIAL FULLY GUARANTEED.

—AMERICAN— SEPARATOR

A brand new, well made, easy running, easily
cleaned, perfect skimming separator for \$15.95.
Skims one quart of milk a minute, warm or cold.
Makes thick or thin cream. Thousands in use
giving splendid satisfaction. Different from this
picture, which illustrates our large capacity
machines. The bowl is a sanitary marvel and
embodies all our latest improvements. Our
richly illustrated catalog tells all about it. Our
wonderfully low prices on all sizes and generous
terms of trial will astonish you. Our twenty-year
guarantee protects you on every American Sepa-
rator. Shipments made promptly from ST. JOHN,
N. B., and TORONTO, ONT. Whether your dairy
is large or small, get our great offer and hand-
some free catalog. ADDRESS,

AMERICAN SEPARATOR CO., BOX 1200,
BAINBRIDGE, N. Y.



ARTHUR J. HOWDEN & CO.
ARE OFFERING

15 High-class Scotch Shorthorn Heifers

At moderate prices, including Cruickshank Non-
pareils, Cruickshank Villagers, Marr Kennes, Cruick-
shank Duchess of Glosters, Bridesmaids, Bruce
Fames, Kinellars, Claret, Crissum Flowers, and
other equally desirable Scotch families, together
with a member of the grand old milking Aikens tribe,
which have also been famous in the showing.

Arthur J. Howden & Co., Columbus, Ont.

SHORTHORNS

Have now a choice lot of young bulls to offer; also with
something nice in heifers. Catalogue of herd and
list of young animals on application.

H. CARGILL & SON, Proprietors, Cargill, Ont., Bruce Co.
JOHN CLANCY, Manager



Shorthorn Bulls and Clydesdale Mares

If you are in the market for a young bull, write us for particulars, or, better
still, come and see them. We have 13 young bulls, from 8 to 14 months old, of good
breeding and quality. We also have four imported Clydesdale mares, safe in foal.

W. G. PETTIT & SONS, Freeman, Ontario

Bell phone. Burlington Jct. Sta., G. T. R., ½ mile from farm

THIS IS A GOOD TIME, AND I HAVE A GOOD PLACE, TO GET A HIGH-CLASS
SCOTCH SHORTHORN BULL CALF
by my great Whitehall Sultan sire, or a young cow in calf to him, to start a herd that will be gilt-edged.
SHROPSHIRE RAMS AND EWES, too, at low prices. CHILDREN'S PONIES. A CLYDES-
DALE FILLY, such as I can send you, is one of the best things any man can buy. Just write me and
say as nearly as possible what you want, and I will surprise you with prices on goods that are genuine.
ROBERT MILLER, STOUFFVILLE, ONTARIO

SALEM SHORTHORNS Headed by (Imp.) Gainford Marquis, undefeated
junior champion honors at Toronto, 1911. Have on hand two yearlings and a number of bulls
under a year for sale at reasonable prices.

J. A. WATT, Salem, Ont. Elora Sta., G. T. R. and C. P. R.

Scotch Shorthorn Females for Sale I am offering at very rea-
sonable prices, females
from one year to five years of age. The youngsters are by my grand old stock bull,
Scottish Hero (imp.) =55042= (90065), and the older ones have calves at foot by him, or
amongst them. A EDWARD MEYER, Box 378, GUELPH, ONT.

ELMHURST SHORTHORNS & BERKSHIRES
I have now a particularly choice lot of young Berkshires; over 60 to select
from; bred from imported stock. Strictly high class, from breeding age down.
Also choice young Scotch Shorthorns. H. M. VANDERLIP, Cainsville P.O.,
Langford Sta., on Electric Road, between Hamilton and Brantford.

Pleasant Valley Farms Shorthorns—For Sale: 7 good young Scotch bulls
high-class bulls; also cows and heifers. Correspondence solicited. Inspection invited.
Farm 11 miles east of Guelph on C. P. R., ½ mile from station.
GEO. AMOS & SONS, Moffat, Ont.

SPRING VALLEY SHORTHORNS

Herd headed by the two imported bulls, Newton
Ringleader, =73783=, and Scottish Pride, =36106=.
The females are of the best Scotch families. Young
stock of both sexes for sale at reasonable prices.
Telephone connection.

KYLE BROS. - - - - - Ayr, Ontario

Shorthorns Choice selections of
bulls and heifers at
all times for sale at
very reasonable prices. Robert Nichol & Sons,
Hagersville, Ont.

Woodholme Shorthorns

I have for sale a number of choicely-bred Scotch
Shorthorn heifers and several young bulls, all of
high-class quality and sired by Imp. Dorothy's King
=5809=, a Lady Dorothy. I am also offering
this bull for sale.

G. M. FORSYTH, North Claremont P.O. & Sta

High Grove Jerseys & Yorkshires

No better blood in Canada. Present offerings:
Choice young sows due to farrow in March.
Jerseys, all ages, both sexes.

Arthur H. Tufts, P. O. Box 111, Tweed, Ont.

Brampton Jerseys

Bulls for service are getting scarce. Just a
few left. Yearling heifers in calf are in great
demand; 5 for sale; 6 now being bred.
Brampton Stockwell the sire. A few good
cows and some calves for sale.
Production and quality. B. B. BULL & SON, BRAMPTON ONT.,