eders'



Holsteins ng for sale now, but get in DRWICH, ONTARIO

ills of serviceable age leftengerveld Champion, whose 48 lbs. Both calves are 12-is from an untested daugho.) Tillsonburg, Ont.

nonths old; all splendid indiby noted blood and big King), has been used on ceptionally promising indi-

Bowmanville, Ont.

920

Hood Farm; Hood Farm ons; Hood Farm Torono, The champion producing ans. Shipment to Canada

OWELL, MASS.

EMPIRE es. We now have for sale

pton, Ontario

dest bull we have at presyear old youngster, sired oria, one of the best mass well as a few breds Bldg., Montreal, P.Q. anager

SEY HERD

ner of first prize with five in 1916, and again first in ice bull calves, ready for reformance imported prize-ight. We work our show

with show type females of months and under from ited certificate from the

RG, QUEBEC. nd at present we have a n Armour. He is being Females of all ages for

R.R. No. 1, Ont.

Sir Douglas Hague ed for their depth and s of conformation. If butterfat—write me or

Telephone 78-3 Cernwall E SOLD

inancial Beauty King, EDGELEY, ONT.

in the show ring and Ve hold more present : Three young bulls,

CORNERS, ONT.

THS SUBSCRIPthe name of ONE sending his \$1.50 E AND HOME

Relation of the Soil to the Growth and Quality of Tobacco.

(Experimental Farms Note.) Soil characteristics play a very important part in the yield and quality of all farm plants, but especially is this true of the tobacco plant. While the fertility of soils is the most important factor in tobacco crop yields there are other factors that play a very important part in determining the quality and hence the market value of the crop.

During the past four seasons, fields and parts of fields prepared, manured, planted and cultivated in the same way and at the same time and of practically the same fertility, as yields have been identical, have shown marked variation in the quality of the cured leaf. In this article the word quality is being used to mean ripe, good color, good texture, and good quality—in a word good tobacco in every respect. Soil samples have been taken from these areas and the mechanical analysis or composition has been determined for the flue-cured, white burley, and cigar tobacco districts.

The finest quality of white burley has come from sand and gravel loams which contain not less than 65 per cent. of sand and from 3 to 15 per cent. of clay. Clay, clay loam, and muck soils have not been satisfactory for producing a good quality of white burley tobacco.

The finest quality cigar binders have come from the fine and very fine sandy loam soils containing from 2 to 6 per cent. of clay, 10 to 25 per cent. of silt and the remainder fine and very fine sand.

For the best cigar fillers the soil should

be slightly heavier. The foregoing refers, of course, to soils so situated that the drainage is good.

Experimental Farms Importation. Robert Cunningham, of the Central Experimental Farm at Ottawa, accompanied R. R. Ness to Scotland and between them they selected a number of Ayrshires of excellent individuality for

the Ottawa herd. These are at present in quarantine in St. John, N.B.
"Overton Lord Kyle" was bought at the Lanark Show and Sale to head the new herd. He is a yearling with great record backing and an excellent individual from a conformation standpoint. His dam, "Overton Snowflake 2nd" gave 9,190 lbs. milk at 3.93 per cent. as heifer and his dam of sire gave 10,150 lbs. milk at 3.56 per cent. In addition to this young bull he also secured some excellent Ayrshire matrons. From Hobsland came the grand young cow "Dunlop Betsy" and the yearling heifer, "Hobsland Betty 7th" which is a big strong heifer with great promise. "Auchlochan Emerald" was purchased out of the renowned herd of Dr. Douglas, and she is by that great breeding bull "Golden Pippin," who is a son of the well-known show cow "Auchenbrain Fanny 9th. From A. Cunningham, of Thornhill, Stewartson was purchased "Hardcroft Dewdrop 3rd," a grand, young cow that should do well in the new herd. It is worthy of note that Mr. Cunningham has built up a rightly bred bord from the form has built up a richly-bred herd free from T. B. that are noted producers, as he will not keep any cow that will not give 10,000 lbs. milk in a lactation period.

From the Catlins herd came "Catlins sister to the dam of "I land Jean 5th" and "Hobsland Perfect This cow is of immense scale and capacity. Mr. Ferguson, of Auchenbry supplied a great three-year-old heifer "Auchinbay Mina 5th," that has every indication of being a heavy producer. Her dam had a number of records averaging over 10,000 lbs. milk at over 4 per cent. Thomas Barber, of Broomhill, was also visited and a promising four-year-old cow "Broomhill Flo" was secured, and from James Howie was purchased a grand cow. Perhaps the best cow of the lot is "Oldhall Maggie 9th," bought from Mr. Caldwell, of Mooreful of Caldwell, of Moorefield, and from John Caldwell, of Coarsehill, was secured a choice cow in "Culcraigie Dot." A useful dairy looking cow, "Hareshaw Tibbie," was secured from the User Tibbie, "was secured from the User Tibbie," was secured from the User Tibbie, "was secured from the User Tibbie," was secured from the User Tibbie, "was secured from the User Tibbie," was secured from the User Tibbie, "was secured from the User Tibbie," was secured from the User Tibbie, "was secured from the User Tibbie," was secured from the User Tibbie, "was secured from the User Tibbie," was secured from the User Tibbie, "was secured from the User Tibbie," was secured from the User Tibbie, "was secured from the User Tibbie, "was secured from the User Tibbie," was secured from the User Tibbie, "was secured from from the Hareshaw herd, and a yearling heifer "Grange Mary 5th" from John Slater of Grange Farm, Kirkeudbright, completes the list of Ayrshires for the farm

In addition to the Ayrshires Mr. Cunningham, who is also a sheep man worthy of note, secured a dozen choice Leicester shearling ewes to strengthen the already splendid flock kept at the Experimental Farm.



Oxford Down Sheep, Pioneer Flock season a up-to-date lot of yearling and two-shear Ram and a number of Yearling and two-shear Ewes, also Ram and Ewe Lambs. His Yarkell, Office and Telegraph, 207 Sherman Ave. South, Hamilton, Ont. Shipping Station, Guelph and Corwhin

wherever they are required.
Annual Ram Show and Sale—350 specially selected Rams at ASHFORD, Kent, on September 23rd and 24th, 1920; also sales at SITTING-BOURNE, Kent, on October 13th, 1920, and MAIDSTONE, Kent, on October 15th, 1920.
Descriptive pamphlet, list of breeders and all information from:

W. A. BALL,
12 Hanover Square,

W. Clydesdale stallions.

W. H. PUGH, Myrtle Station, Ont.

Prospect Hill Berkshires—Young stock, either sex, for sale, from our imported headed by our stock boar, Ringleader. Terms and princes right.

JOHN WEIR & SON, R.R. 1, Parls, Ont.

At Westside Farm

Pigs of different ages, both sexes,

KENT OR ROMNEY MARSH SHEEP
The hardiest and best grazing mutton and wool sheep of Great Britain. Successfully acclimated wherever they are required.

Shropshire Yearling Ewes bred to Bibby's ewe lambs sired by him. Two Clydesdale stallions.

ELMHURST LARGE ENGLISH BERKSHIRES From our recent importation of sows, together with the stock boar, Sudden 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.



Inverugie Tamworths A choice lot of gilts bred for June and July farrow, Young boars from 50 pounds up. Leslie Hadden, Box 264, Sunderland. Ont.

YORKSHIRES Meadow Brook Registered Yorkshires— service, from prizewinning stock. Prices reasonable for quick sale. G. W. MINERS, R.R. No. 3, Exeter, Ontario

Small pigs of "Weldwood" breed ready to ship; write at once. David A. Ashworth - Denfield, Ont. Large English Berkshires I can supply select breeding stock, all ages. 2 boafs and 4 sows, 4 months old, from registered stock.

F. L. ABBOTT, - Stanstead, Que. **TAMWORTHS**

WELDWOOD FARM

Young sows, bred for May and June farrow, and boars for sale. Write or 'phone.

Farmer's Advocate, London, Ontario

Young sows, bred for May and June farrow, and boars for sale. Write or 'phone.

Corinth, Ontario

Please mention Advocate.

Ship your cream to us. We pay all express charges. We supply cans. We remit daily. We guarantee highest market price.

ONTARIO CREAMERIES Limited **ONTARIO** LONDON



LABELS LABELS
Live-stock Labels
for cattle, sheep
and hogs. Manufactured by the
Kethum Manufacturing Co., Ltd., Box

501 Ottawa, Ont. Write for samples and prices.

Big Type Chester Whites—We cleaned up at to Exhibitions, 1919. Now offering pigs from our 905-lb. sows, and sows bred to our 1,005-lb. boar. JOHN ANNESSER, Tilbury, Ont.

Sunnyside Chester Whites and Dorsets—In Chester Whites, both sexes, any age, bred from our champions. In Dorset ram and ewe lambs, by our Toronto and Ottawa champions, and out of Toronto, London and Guelph winners.

W. E. Wright & Son, Glanworth, Ont.