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SENT ON TRIAL, FULLY GUARANTEED. A new, well made, easy running separator for \$15.95. Skims hot or cold milk; heavy or light cream. Different from this picture which illustrates our large capacity machines. The bowl is a sanitary marvel, easily cleaned. Whether dairy is large or small, obtain our handsome free catalog. Address **AMERICAN SEPARATOR CO.** Box 1200, BAINBRIDGE, N.Y.

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GLENGOW SHORTHORNS

Have on hand four young bulls from 10 to 13 months old; also a number of choice heifers. For particulars write:

Wm. Smith, Columbus, Ont.

10 Scotch Shorthorn Bulls 10

FROM 10 TO 14 MONTHS OLD

The Princess Royal, Secret, Bessie, Village Maid families are represented in lot. First-class herd headers and farmers' bulls for getting market-topping steers. Prices very reasonable.

JOHN MILLER, BROUGHAM, ONT.
Claremont Station, C. P. R., three miles.

Woodholme Shorthorns are of the richest modern in type and quality. For sale: One and two-year-old heifers, several young bulls, thick-fleshed, low-down and mellow.

G. M. FORSYTH, Claremont, Ont.
100 yards from station. Phone connection.

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1854-1911

Two strictly first-class young Shorthorn bulls for sale now. Come and see them, or write.

A. W. SMITH, Maple Lodge, Ont.
Lucan Crossing, G. T. R., one mile.

HIGH CLASS SHORTHORNS

I have on hand young bulls and heifers of high-class show type, pure Scotch and Scotch-topped, sired by that sire of champions, Mildred's Royal. If you want a show bull or heifer, write me.

GEO. GIER, Grand Valley P.O. and station,
also Waldemar station.

SPRING VALLEY SHORTHORNS

If you want a good Shorthorn bull, we have them. Canadian-bred and imported. Females all ages. Also a few good YORKSHIRES—breds and sows. Prices right.

Phone connection. **Kyle Bros., Ayr, Ont.**

FLETCHER'S SHORTHORNS

Imported Shorthorn bull for sale. Just turned 4 years old. Bonachie (in p.) 67931, bred by A. T. Gordon; sire Scottish Farmer, grandson of Scottish Archer; dam Beatrice 22nd, which produced Bandmaster, the first-prize Royal winner.

GEO. D. FLETCHER, BINKHAM ONT.
Erin Sta., C. P. R.

Shorthorns

Present offerings: 12 bulls from 2 to 30 months old. For sale: 12 bulls fit for service; two roans and one black; 12 from imp. stock, also females of all ages. Bred by **A. C. Pettit, Freeman P. O., Ontario.**

Scotch Shorthorns

For sale: 12 bulls fit for service; two roans and one black; 12 from imp. stock, also females of all ages. Bred by **A. C. Pettit, Freeman P. O., Ontario.**

QUESTIONS AND ANSWERS.

Miscellaneous.

CREAM DOES NOT RISE — OIL CAKE FOR COWS — QUARTS OF MILK TO CREAM.

1. What is the cause of cream not rising on the milk when it tests 3.80 (cows being fresh)?
2. Would you consider 3.80 a very good test for a grade Holstein heifer, coming three years old, calving for the first time on February 28th, and her milk being tested on March 13th?
3. Is oil cake good to make pigs thrive, and will it make cows give more and richer milk?
4. How many quarts of milk should it take to make a quart of 30-per-cent. separator cream, from a herd of cows testing from 3 per cent. to 4 per cent.?
5. To decide an argument, A says that the cow's milk looks terribly blue after the cream is taken off; B says that it should be naturally so if the cream is all taken off. Which is right, A or B; and if A is right, what is the cause?

F. A. S.

Ans.—1. Sometimes this is due to the small size of the milk-fat globules, or a viscous (sticky) condition of the milk, or both. Cows giving milk with large-sized fat globules, are best for gravity, or setting methods of creaming milk. There is no way of increasing the size of the fat globules to any material extent, as this is inherent, or natural to the cows. Such milk ought to be creamed (skimmed) by the use of a centrifuge or cream separator. In the case of abnormal viscosity in fresh cows' milk, this can be reduced to some extent by feeding more succulent foods, such as corn silage and roots in winter. This trouble is seldom met with in summer when cows are on grass. Some advise the addition of water to such milk when set in cans or pans for the cream to rise, but this practice is of doubtful value. Better use cream separator.

2. Milk testing 3.8 per cent. fat is certainly "a very good test," as it is from .2 to .3 above the fat content of average milk. For a grade Holstein heifer, this would be considered a good test, if it represents her average, and if she is giving 40 lbs. or over, of milk daily, as this is equal to 1.5 lbs. fat daily, which will make about 1½ lbs. butter.

3. Oil cake is an excellent feed for cows giving milk, although it is not likely to make the milk "richer." The richness, or percentage of fat in the milk, is largely governed by the cow. Only in exceptional cases can it be said that feed influences the percentage of fat in the milk, and then in a way directly opposite to what farmers generally consider to be the case. If a cow be in high flesh at the time of freshening, and the usual feed, or a part of it, be withheld, the tendency is for the cow to absorb or assimilate body fat, in the form of milk-fat. This is not true of all cows, and is probably true only for a limited period of time.

4. Assuming that 30-per-cent. cream weighs 2.5 lbs. to the quart; that milk weighs 10 lbs. to the gallon; that the loss of milk-fat in separating may be neglected, and that the milk tests an average of 3.5 per cent. fat, the answer would be 8.5 (8½) quarts.

5. As stated in the "argument," there is little or nothing to decide. If A says, "the cow's milk looks terribly blue," and it is "blue," that settles the "argument." But if A says "the cow's milk looks terribly blue after the cream is removed, and that this ought not to be the case," and B says, "that a cow's milk should be naturally blue after the cream is removed," we then have a case for "argument."

The color of milk, as of any substance, is dependent upon light. Without light there can be no color, in the ordinary meaning of that term. Milk appears to be "yellow," because the coloring matter (carotene) of milk reflects the yellow rays of light. It is "blue" because the blue rays of light are reflected.

As to whether or not milk with the cream removed should look "blue naturally," it depends on the nature and the amount of the solids-not-fat remaining in the milk after skimming, or removal of the cream. In the case of milks

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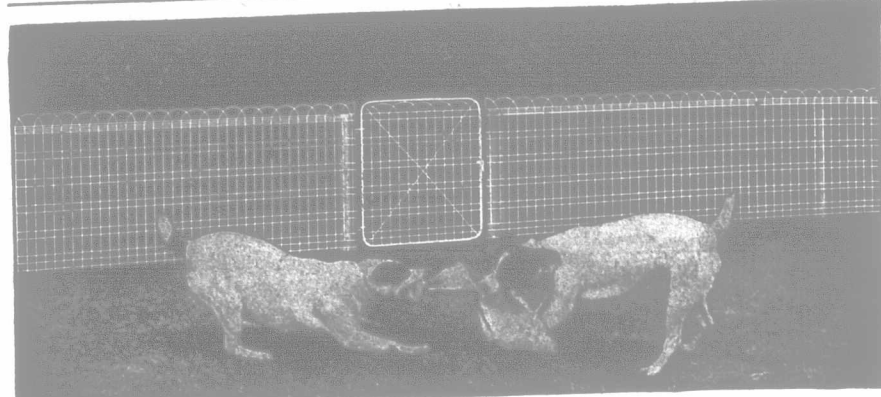
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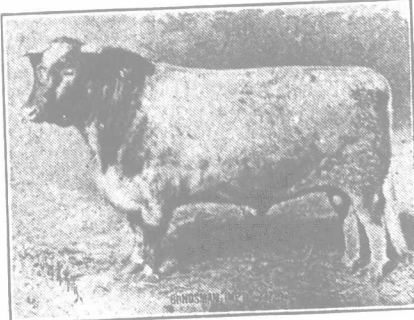
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SCOTCH SHORTHORNS

100 HEAD IN HERD.

Headed by the imported bulls, Bandsman and Village Duke. For sale: 7 choice bulls of serviceable age; 3 are from imported sire and dam; 2 are thick, heavy-boned yearlings, suitable for farmers' use to sire growthy, easy-feeding steers; 1 Nonpareil and 1 Missie, both by Bandsman, are especially suitable for herd headers. 25 young cows and heifers in calf; among these are some good ones for foundation purposes.

Farm ¼ Mile from Burlington Jct. Sta.
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have to offer at the present moment an exceptionally good lot of young bulls, which combine all the requisites necessary for the making of superior stock sires, viz.: Quality, Size, Conformation and Breeding. If interested, come and make your selection early. Catalogue on application.

John Clancy, Manager, Cargill, Ontario.

SHORTHORNS AND CLYDESDALES

THE FOLLOWING CHOICELY-BRED YOUNG BULLS ARE FOR SALE:

Name	Color	Age	Sire	Dam
1 Broadhooke Ruler	=81058=	White	April 27, 1910	Bullrush (imp.)
2 Ramsd n Recuit	=77495=	Red	Nov. 9, 1909	Bullrush (imp.)
3 Royal Bud	=81056=	Red roan	Jan. 4, 1910	Royal Winner (imp.)
4 Royal Emblem	=81060=	Red	Jan. 26, 1910	Royal Winner (imp.)
5 Royalty	=81059=	Red	Apr. 22, 1910	Royal Winner (imp.)

Heifers and cows of various ages and choicest breeding. Also Clydesdale mares and fillies. **W. G. Pettit & Sons, Freeman, Ontario.**

Robert Miller, Stouffville, Ont., Can supply young bulls and heifers of the very prices that you can afford to pay. The young bulls are by one of the greatest sons of Whitehall Sultan. They are good colors, and will make show bulls. I also have two good imported bulls at moderate prices and of choice breeding, and some cows and heifers in calf to Superb Sultan; the calves should be worth all the cows will cost. Some beautiful young imported Welsh Ponies still to spare. It will pay you to write, stating what you want. Glad to answer inquiries or show my stock at any time. Business established 74 years.

Elmhurst Scotch Shorthorns and Large English Berkshires

FOR SALE: Two young bulls, red and roan, fashionably bred with quality. Young sows bred for April litters. **H. M. VANDERLIP, Cainsville, Ont.** Langford Station. B. H. Radial in sight of farm, B. H. phone.

Springhurst Shorthorns and Clydesdales

I am now offering a number of heifers from 10 months to 3 years of age. Anyone looking for show material should see this lot. They are strictly high-class, and bred on show lines. Also several Clydesdale fillies, imp. sires and dams, from foals 2 years of age off. **Harry Smith, Hay, Ont. Exeter Sta.**

Shire Stallions and Mares, Shorthorn Cattle (both sexes); also Hampshire Swine. Prices reasonable.

Porter Bros., Appleby, Ont., Burlington Sta. Phone.

Brampton Jerseys

Bulls fit for service are getting scarce. Just a few left. Yearling heifers in calf are in great demand; 6 for sale; 6 row being bred. **Brampton Stockwell the sire. A few good cows and some calves for sale. Production and quality.**

B. H. BULL & SON, BRAMPTON, ONT.