

The Provincial Dairy Show.

held at Gananoque, Ontario, Oct 1st, 2nd and 3rd, while bringing together a grand exhibit of dairy cattle, was not successful from a financial standpoint, owing, no doubt, to obvious conditions, viz., the quiet and decidedly out-of-the-way place at which it was held, and the fact that it presented but one special feature; and coming on the heels of the big general shows of the season, the attendance was meager in the extreme. If this fair is to be held and made a success in the future, it must be held in a more prominent place, and in conjunction with some of the larger fairs. Had this plan been adopted the present year, we think the results would have been somewhat more encouraging.

The cattle exhibit, however, was certainly of a high order, and sustained that part of the show with credit. The dairy breeds were well represented by some of the best herds in Ontario and Quebec; and the cheese and butter department was acknowledged by Mr. McLaren, who judged at Toronto this year, and at the World's Fair, as well as here, to be the most uniform he has seen or tested; and most of it was of very good quality, if the quantity was somewhat lacking. The prizes were all won by Ontario cheese; and the majority of the best awards came to Western Ontario. The judgment seemed to be mostly satisfactory. Most of the cheese scored well in quality, color, and finish; but some were somewhat lacking in texture and flavor. Mr. McLaren, who judged the cheese, was assisted by Prof. Dean, in the butter department. The quality of the butter, like the cheese, scored well, and it was neatly and tastefully arranged. As stated before, there was not a large quantity of cheese and butter exhibited; still, many parts of the Province were represented in small lots; and a noteworthy feature was the scarcity of inferior articles.

The display of cheese-factory and creamery supplies was extremely limited. The Derbyshire Co., Brockville, made the largest exhibit. Their creamery steam outfit, in operation, attracted considerable attention and interest; and their Russian cream-separators, both hand and steam, seemed to work admirably. This firm also exhibited hand and steam butter-workers, and other creamery supplies, including a new revolving steam-working butter-worker, which has the appearance of being a marked improvement on the line of butter-workers formerly used. C. D. Chown, Kingston, showed the Whitelaw cheese-press and curd-mill; a Davis & Rankin cream separator; Sturges steel churn; butter tubs of all sizes; and butter box for one-pound prints, for shipping. A. Patterson, Smith's Falls, exhibited the Barnard curd-mill, a new pattern that appears to be giving good satisfaction. W. Stafford, of Lancaster, was also out with four pieces. His curd-mill is claimed to supersede former makes in points of speed, convenience, cleanliness, durability, and ease in operation. The other pieces were a milk-crane, press-screw, and a faucet.

CATTLE.

This department, as already stated, was of a high standard, and enough of the best were out to win all the prizes offered; and as all the best individuals have been described at length in our report of the large fairs, it is unnecessary to reiterate.

In the

AYRSHIRE

class the competition was keen, such well-known exhibitors coming forward with their best as D. Drummond, Petite Cote; D. McLachlan, Petite Cote; Wm. Stewart & Son, Menie; and J. Yuill & Sons, Carleton Place. D. B. Johnston, Lansdowne, and A. Knight, Cataraqui, were also out with one or two animals. Each and all succeeded in winning a prize or two. McLachlan stood first, on Silver King, in the aged bull class, and Wm. Stewart was second, on White Prince. This bull was not in shape, this year, to do himself justice in the show ring. J. Yuill & Sons, Carleton Place, showed a good bull in Leonard Meadows, on which they won first in two-year-olds. Wm. Stewart & Sons' Douglas of Loudon Hill came second. D. Drummond showed a beautiful bull calf from his noted cow, Nellie Osborne, and by Glencairn, Mr. Reford's grand stock-bull. For cows giving milk, four years old and upwards, McLachlan's Maggie Mitchell won first. Nellie Osborne was obliged to leave the ring with the blue ribbon, the white falling to Stewart's Jeannie Armour. In three-year-olds, McLachlan's Lady Heather was first; Stewart followed with White Lily. Two-year-olds were represented by three remarkably fine heifers. Stewart's Scotch Lassie Jean was an easy first; McLachlan's Lady Heather 3rd made a good second, and Yuill & Sons' Mede Meadows was a creditable third. Many would have placed the yearlings differently, and at a first glance we were inclined to be of the same opinion; but on examining them more closely we concluded the judgment was not much amiss. Heifers under one year were a good lot, and were represented by seven in the ring; McLachlan's Flow Gently winning first. Stewart's Moss Rose, which was placed second, would have graced the first to better advantage, in our estimation. The sweepstakes for best Ayrshire cow, by conformation, was won by D. Drummond, with Nellie Osborne, a cow too well-known to need eulogy. The judge on this class was Mr. Douglass, of Warkworth.

HOLSTEINS

were judged by Mr. Cook, of Aultsville, and were pretty thoroughly gone over, the awards being made in accord with our judgment, with the exception of one or two sections. The Holsteins, like the Ayrshires, were well represented, Messrs. A. & G. Rice, Currie's Crossing; G. W. Clemons, St. George; C. J. Gilroy, Glen Buell; A. Hoover, Emery; and Wm. McClure, Brampton, being present, all Toronto winning herds, with the exception of the last named. In the aged bulls Hoover carried off first again on Emery Prince, a bull that made a clean sweep of all the firsts at all the large fairs. Gilroy's Inka Kathleen's 2nd made a capital second, a place he has held with credit at all the fairs. McClure's Siepkjes Mink Mercedes is a magnificent appearing bull, but owing to being a little deficient in one or two points and having two such remarkably fine animals for rivals as the above mentioned, the white ribbon was apportioned to him. Mr. Clemons' Netherland Consul again captured the red in the two-year-olds. Mr. McClure's Mink Mercedes Aaggie made a worthy second, and in the yearlings Hoover was forward and easily captured first on his exceptionally fine bull, Barton Witzzyde. The two-year-old and yearling rings made a strong and very excellent display, including such grand heifers as Cornelia Artis and Mandamis Daisy Barrington, owned by G. W. Clemons; Daisy Jewel, Iolena Fairmont and Daisy Jewel's Olive, owned by A. & G. Rice; Bell of Norval and Alice Helena, the property of Wm. McClure; and Hoover's Eagly Trena; all most excellent heifers; and other good ones. The first for milking cow, four years old and upwards, was awarded to Carmen Sylvia, a cow that has wrought a conspicuous place in the records this season for her owners, C. J. Gilroy & Son, Glen Buell. Not only has she been first in her class at several shows, but she is the proud possessor of the sweepstakes ribbon at Toronto and Gananoque Dairy Show. In the milk test Eunice Clay, the sweepstakes cow of last year, owned by A. & G. Rice, had to give way this season and take second place in her class, no doubt due to the fact that she calved twins this summer and has done poorly since. In the three-year-old milking cows Emery Beauty, a good cow, owned by A. Hoover, was first, and Rice's Lady Peitertje made a right good second.

JERSEYS

were represented principally by a draft from the famous herd of Mrs. E. M. Jones, which contained some of her best stock—such as Gipsy of Spruce Grove, Miss Satenella 2nd, Silver Della, Beauty of Delta, Beauty of Belvedere, and Rioter's Fanciful, among the females, and others; headed by such noted bulls as Canada's Sir George, Lillium's Rioter, and the two-year-old Simcoe Chief. Mrs. Jones' exhibit contained some twenty-five individuals. Mr. A. D. DeLong, Elgin, showed Crossley Boy in the aged bull class.

GUERNSEYS.

W. H. & C. H. McNish, Lyn, showed fourteen of their best, and as their stock made the round of the large fairs a review of them may be seen in our Toronto report. Ada of Eastview, Belinda of Eastview and Linny of Eastview are some of their best females, cows of fine dairy form, possessing well-developed milk veins, and smooth, rich appearance. Messrs. McNish had clear sailing, except in the aged and two-year-old bull sections, where Isaac Holland, Culloden, won first on his May's Roseberry, an excellent representative of this breed, straight, smooth and well-proportioned, with a soft, mellow skin, and possessing fine dairy points. His two-year-old is of much the same type, and was an easy winner of first in his class.

The pure-bred beef breeds were not represented.

CATTLE.

AYRSHIRES.—Bull, 3 years old and upwards—1 D McLachlan, Petite Cote; 2 Wm Stewart, Menie, Ont; 3 D B Johnston, Lansdowne. Bull, 2 years old—1 Jos Yuill & Sons, Carleton Place; 2 Wm Stewart & Son; 3 A Knight, Cataraqui. Bull, 1 year old—1 D McLachlan; 2 D Drummond, Petite Cote. Bull calf, under 1 year—1 D Drummond; 2 Wm Stewart & Sons; 3 J Yuill & Sons. Cow (giving milk), 4 years and over—1 D McLachlan; 2 D Drummond; 3 Wm Stewart & Son. Cow (giving milk), 3 years old—1 D McLachlan; 2 Wm Stewart; 3 D B Johnston. Heifer, 2 years old—1 Wm Stewart; 2 D McLachlan; 3 Jos Yuill & Sons. Heifer, 1 year old—1 Wm Stewart; 2 D McLachlan; 3 D Drummond. Heifer calf, under 1 year—1 D McLachlan; 2 Wm Stewart; 3 Jos Yuill & Sons. Sweepstakes for best Ayrshire Cow, by conformation—Daniel Drummond.

HOLSTEINS.—Bull, 3 years old and upwards—1 A Hoover & Son; 2 C J Gilroy; 3 Wm McClure. Bull, 2 years old—1 G W Clemons; 2 Wm McClure. Bull, 1 year old—1 A Hoover & Son. Bull calf, under 1 year—1 A & G Rice; 2 G W Clemons. Cow (giving milk), 4 years and over—1 C J Gilroy & Son; 2 A & G Rice; 3 Wm McClure. Cow (giving milk), 3 years old—1 A Hoover & Son, Emery; 2 A & G Rice. Heifer, 2 years old—1 G W Clemons; 2 A Hoover; 3 A & G Rice. Heifer, 1 year old—1 and 3 Wm McClure; 2 G W Clemons. Heifer calf, under 1 year—1 and 2 G W Clemons; 3 C J Gilroy & Son.

JERSEYS.—Mrs E M Jones, Brockville, won all the prizes but third in the three-year-old bull class, which was won by A D DeLong, Elgin.

GUERNSEYS.—Isaac Holland, first on aged and two-year-old bull. W H & C H McNish were awarded the remaining prizes without competition.

DAIRY PRODUCTS.

CHEESE.

Four factory-made (colored), manufactured from 15th to 20th July, 1895—1 Dargavel & Murphy, Elgin; 2 John C Stafford, Lansdowne; 3 H A McDonald, Battersea; 4 Robt Cuddie, Woodstock. Cheese, 4 factory-made (white), not less than 40 lbs. each, manufactured from 15th to 30th July, 1895—1 Wm W Stafford, Lansdowne; 2 Jas L Thompson, South Lake; 3 John C Stafford; 4 John B Muir, Avonbank. Cheese, 3 factory-made (colored), not less than 40 lbs. each, manufactured between 15th and 30th August, 1895—1 Jas A Gray, Atwood; 2 between 15th and 30th August, 1895—1 John B Muir; 2 John Morrison; 3 Mrs Drewry, Godolphin; 4 Jas A Gray. Cheese, 3

truckle, not to exceed 10 lbs.—1 Robert Cuddie. Sweepstakes for one cheese (colored), Eastern Dairymen's Association prize—1 Robt Cuddie. Sweepstakes for cheese (white)—1 J B Muir.

BUTTER.

Three firkins, not less than 50 lbs, made at factory or creamery—1 C Johnston & Son, Athens; 2 Charles Snediker, Haysville; 3 Isaac Wenger, Ayton; 4 W C Bimon, Iroquois. 75 lbs creamery in pound rolls or prints—1 C Johnston & Son; 2 W C Bimon; 3 Chas Snediker; 4 Isaac Wenger. 60 lbs creamery, in packages of 10 lbs—1 C Johnston & Son; 2 Isaac Wenger; 3 W C Bimon; 4 Chas Snediker. 3 firkins, not less than 30 lbs, farm dairy—1 W C Shearer, Bright; 2 A D DeLong, Elgin; 3 Samuel Hunter, Rockton; 4 Neil Sangster, Ormstown. 2 firkins, crocks or tubs, not less than 20 lbs, farm dairy—1 W C Shearer; 2 Samuel Hunter; 3 Mrs B McNamee, Sand Bay, 3 crocks or tubs, 10 lbs, farm dairy—1 A D DeLong; 2 Mrs Allen Smith, Westbrook; 3 Samuel Hunter. Basket of 1-lb prints or rolls, not less than 10 lbs, made at any farm dairy—1 Samuel Hunter; 2 W C Shearer; 3 Mrs Allen Smith; 4 Neil Sangster. Sweepstakes, best lot of butter (firkins or crocks)—1 C Johnston & Son. Sweepstakes, best lot of butter (prints or rolls)—1 C Johnston & Son.

DAIRY UTENSILS.

Creamery outfit (steam) in operation—1 D Derbyshire & Co, Brockville. Cream separator (hand) and appliances—1 D Derbyshire & Co; 2 Chas D Chown, Kingston. Cheese-factory outfit, ready for operation—1 D Derbyshire & Co; 2 Chas D Chown. Cheese Boxes, 6—1 D Derbyshire & Co; 2 H A McDonald, Battersea; 3 Jno C Stafford, Lansdowne. Butter Tubs—1 D Derbyshire & Co; 2 Chas D Chown. Churn, for dairy farm—1 D Derbyshire & Co; 2 Chas D Chown. Butterworker, for dairy farm—1 D Derbyshire & Co. Butter Packages, 1 lb. Prints—1 D Derbyshire & Co; 2 Chas D Chown. Best 3 (colored) Cheese made with Gladd's Rennet—1 W R Kaiser, Lansdowne. Best 3 (white) Cheese made with Gladd's Annatto—1 Jas A Gray, Atwood.

SPECIAL EXHIBITS.

W Stafford, Lancaster—Curd Mill, Milk Crane, Press-Screw and Faucet. A Patterson, Smith's Falls—Barnard Curd Mill. Bronze medals.

The Farmer's Profit from the Cheese Factory.

BY F. J. S.

Can the Canadian farmer make a profit by supplying milk to a cheese factory, with the price of cheese from 7c. to 8c. per lb., and eleven and twelve pounds of milk required to make a pound of cheese? This constitutes the burden of the subject that we have been asked to discuss.

We must first ask to be allowed to suppose an average basis for computation.

(a) That a cow gives 5,000 lbs. of milk annually.

(b) That the factory season extends from May 1st to October 31st, inclusive—six months.

(c) That the cow is fresh April 1st, or thereabouts.

(d) That she milks nine months of the year.

(e) That the patron pays one and one-half (1½) cents per pound of cheese for the making and selling.

(f) That the price received (gross) is 7½c. per pound.

(g) That it requires eleven and a-half pounds of milk to make a pound of cheese.

One hundred pounds of milk will be taken as the basis of calculation.

What, then, is the income (net) from one hundred pounds of milk delivered at the factory?

11½ lbs. of milk make 1 lb. of cheese. (approximately).
100 " " cheese @ 7½c. per pound = 750c.
88 " " cheese @ 7½c. per pound = 660c.

Then, the whey is usually returned to the patron say ninety pounds for every one hundred of milk supplied. To get at the value of this whey is a very difficult matter. The bulk of experiments put it at ten cents per hundred pounds when fed sweet to young pigs. But not one pound in ten is so fed in this country. We are of the firm belief that very much of it is not worth as much as the same weight of good water, to feed pigs or any other animal. But it is not all so bad, and it is perhaps worth five cents, on an average, for each one hundred pounds of milk supplied. This, added to the 65 cents, makes a gross return of 70 cents per 100 lbs. for the milk. But there is a deduction of one and one-half cents per pound of cheese for making, etc., which is equal to thirteen cents per 100 lbs. of milk, thus leaving a net return per 100 lbs. of milk of 57 cents. We talked lately with a farmer who said that for the privilege of having his 4,600 lbs. of milk made up and sold at the factory (drew it himself) last season, he paid \$90.00, equal to 20 cents per 100 lbs. of milk. While it has not been taken throughout the whole season eleven and a-half pounds of milk to make one pound of cheese, yet in many factories of late we believe that it has taken as high as twelve; and when we remember that in the early part of the season cheese sold as low as six cents per pound, the above estimate of income may not be far astray for the season.

The question of the cost of producing one hundred pounds of milk may not be so readily determined. We offer a monthly estimate of yield, based upon 5,000 lbs. per annum: May, 750 lbs.; June, 750 lbs.; July, 650 lbs.; August, 550 lbs.; September, 500 lbs.; October, 450 lbs.; totalling 3,650 lbs. for the six months, which is equivalent to 316½ lbs. cheese.

Has one herd in ten reached this quantity per individual this past season in Ontario, Mr. Editor? For all minutiae relative to the cost of producing one hundred pounds of milk at different periods we refer the reader to our article in the July 15th ADVOCATE, on the "Cost of a Pound of Butter."

The total cost of feed for these six months will reach, estimated as in the article mentioned, \$9.07 per cow for the factory season. The labor of milking—2½c. per head per day, of caring for milk, 1c., and of delivering the milk to the factory, 2½c.—totals (6c.) six cents per head. This latter item of labor—drawing to the factory—is of necessity subject to very great fluctuations; we have based our