

Considering the number of experimental stations in the United States and Canada there have not been many comparative tests of the milking breeds made, or at least there have not been very many results published. There seems to be a certain amount of apathy on the part of experimentalists employed by governments in publishing any results that would reflect upon the qualities of any particular breed. Whether this is a right attitude to assume or not there will, no doubt, be a difference of opinion.

There are, however, a few stations that have published the results of tests of this kind, and we give below a partial summary of the results obtained by the New York Agricultural Experiment Station from an elaborate and extensive series of tests. If "Enquiring Reader" would write to the director of this station at Geneva, N.Y., he can secure a set of bulletins giving the complete results.

MILK PRODUCTION.

Partial summary of results for one period (10 months) of lactation :

	Cost of food.	Pounds of milk given.	Money value of milk at \$1.28 per 100 lbs.
Ayrshire.....	\$49.32	6,824	\$87.24
Guernsey....	46.15	5,385	68.93
Holstein.....	50.73	7,918	101.35
Jersey.....	45.49	5,045	64.58
Shorthorn.....	46.22	6,055	72.50

BUTTER PRODUCTION.

	Cost of 1 lb. of butter.	Money value of butter produced.	Profit from butter produced.
Ayrshire.....	17.92 cents.	\$68.80	\$19.43
Guernsey.....	14.15 "	81.40	35.25
Holstein.....	17.02 "	74.53	23.80
Jersey.....	14.11 "	80.60	35.11
Shorthorn.....	15.15 "	76.28	30.06

CHEESE PRODUCTION.

	Cost of 1 lb. of cheese.	Money value of cheese produced.	Profit from cheese produced.
Ayrshire.....	7.24 cents.	\$65.84	\$ 7.00
Guernsey.....	6.57 "	67.92	13.87
Holstein.....	6.72 "	73.00	12.02
Jersey.....	6.62 "	66.44	13.42
Shorthorn.....	6.35 "	70.39	15.06

In the above tests there were used the products of four cows each of the Ayrshire, Guernsey, Holstein, and Jersey breeds, and one Shorthorn.

The standards proposed for the respective breeds by the British Dairy Farmers' Association for entry in the "Dairy Cattle Register" are as under :

	Weight of milk in milking period (not exceeding 11 months).	Pure butter fat per day (determined by analysis).
	lbs.	lbs.
Ayrshire.....	7,500	1.00
Guernsey.....	6,000	1.25
Holstein.....	8,500	1.00
Jersey.....	6,000	1.25
Shorthorn.....	8,500	1.25

Averages of breed tests conducted at the annual dairy shows of the British Dairy Farmers' Association, 1879-'93, inclusive :

	Average yield of milk per day.	Total per cent. of solids.	Per cent. of fat.
	lbs.		
Ayrshire.....	37.82	13.45	4.22
Guernsey.....	29.36	14.26	4.83
Holstein.....	45.19	12.25	3.41
Jersey.....	27.56	14.02	4.96
Shorthorn.....	44.03	12.85	3.78

This result, though not stating the cost of production, will give some idea of the relative standing of the five breeds in Great Britain.

In considering comparative tests of dairy breeds it must always be taken into account that there are good and bad cows in every breed, and while each breed has its peculiar characteristics, there may very often be as wide a difference in the cost of producing milk, butter, and cheese between cows of any one breed as between the cows of different breeds. We should be glad if any of our readers could give any further information on the subjects mentioned in the letter above through our columns.

The tables given in our issue of September, 1894, were those of results obtained at the New York and New Jersey Experiment Stations, and can be accepted as reliable.

Swollen Bag.

A cow on our farm has one side of her bag swollen to about twice its normal size; she was all right in the morning, but at night, when she came from the pasture, we found the bag in above condition. The day before she had a thorn bush caught in the switch of her tail; perhaps she scratched her bag with this thorn bush and poisoned it. Can anything be done? The cow came in about two months ago, but we cannot use milk since bag swelled.

West Troy, N.Y.

C. B. F.

Give 2 oz. spirits turpentine and 8 oz. linseed oil; repeat next day. Rub udder with some of the following liniment, three times a day: Tincture arnica, 4 oz.; tincture opium, 4 oz.; fluid extract phyto laccæ decandra, 2 oz.; alcohol one pint; mix. Feed only bran mash and hay for a week.—*Country Gentleman*.