summated. A ram we once hired from the cheese, value of the whey, value the colebrated Jonas Webb, of Baba- of the live weight, and cost of food. ham, Cambridgeshire, England, served The value of the cheese was fixed ac-110 owes, and was neather sick nor cording to the scale of points given in sorry afterwards l

pig. Fur botter sell late dropped ones afterwards found in the ripening of with some particular breed, which as sucking-pigs, at a month old, than the cheese. Some one replied that he counts for a great deal in his success try to carry them through the winter. found no trouble in doing it, but retherewith, and which would make it

Thickness of fat in Price any part of the back Prime store. Under 10 sc 14 lb Under 11 sc 10 lb. Not exceed 23 in 8s. 2d Not exceed 3 in 7s. 3d. Under 12 sc.

Any pigs outside these limits at their value. Sow-, 6. 6d per se Half truck, 12 pigs; whole truck 25 —Chas. and Thos Harr's and Co, Limited. They are particular in En gland.-Ev.

## The Dairy.

## THE BATTLE OF THE BREEDS

The publication in the GAZEITE of the summary and results of the cheese making trials at the Chicago Exhibi tion will come as a surprise to many, though some, who like myself, have week will have been gradually prepared from the same. It amounts to preventing the sale of skim milk as a this, that three breeds of cows-Jer Guernsey, and Shorthorn - have been during the month of May sub-jected to the most searching and thorough test yet carried out any-where as regards their cheese-making powers, and the Jersey has come out top in every count, with the Guernsey second, and the Shorthorn last.

It is about the first time we have been brought face to face with the fact that Jerseys and Guernsey are cheese making cows, at least, on this side of the Atlantic, and the matter wants a little study, and a little inquiry into the system of the trials, and the various points attended to. Only these three breeds were tried, for, though several others were originally entered—such as the Ayrshires and the red Pollsthey were withdrawn for various we will not deny, but that does not reasons. This is a great pity, for prove that it is better than good rich though the result might not have been Jer oy milk for the choose vat. different, yet it would be of the utmost economic question—whether milk had importance to know the relative value better be made into cheeseor butter is of all the recognised dairy breeds.

At the trial there were twenty. five selected unimals of each kind, nomy of manufacture." seventy-five in all, and the trial was conducted for fifteen days, during ten up the whole matter. The Chicago of which, cheese were made. The trials are the fullest and most searchof which, cheese were made. the points noted in the trial were.—pounds of milk yielded, cheese made, whey made, live weight gain, value of

the GAZETTE. The point which at first Remember that well-saved pease puzzled me was how they managed to straw is far better for in lambed owes make the rich milk of Jerseys and than the very best timethy hay.

Guernseys into cheese at all (Cheddar. Swine.—Keep all your pigs warm, I presume, though the variety is not their value when done with as milch-but especially the late litters. No mentioned), for I remember writing cows, their hardiness and ability to sow ought to pig after the 20th of some two years ago, to point out, that third on inferior pastures, their death September, for no animal on the farm very rich milk was not suited for rate, and so on. Then again there is so susceptible of cold as a young cheese-making, owing to the difficulty try to carry them through the winter. Found no trouble in doing it, but reshould be fit for the Montreal west end butchers by New-year's Day, and, if see what percentage of fat there is in fairly fat, but not too fat, ought to bring good prices. Don't let your well-bred sows got too tat, a fat sow are the averages for June and July in rarely brings a strong litter of pigs only female on the farm that keeps of the latest copies of Hoard's Dairy nay almost to the hour? A mare is generally pretty close to it, but a sow is accuracy itself.

\*\*Calne, England, Friday.\*\*—Present prices for prime pigs in lots of not less than 10, on rail within 100 miles of Calne:\*—

\*\*Thickness of fat in\*\*

\*\*T reached 9 per cont., and even 10 per cent. at the late trials at Norwich. I the back per se is therefore easily seen that milk of the condition of the quality yielded at the Chicago Under 11 se to 1b. Not exceed 25 in 8s. 2d trials would ofter no exceptional difficulties in the making of cheese.

It may be mentioned in passing that th Gu ruseys have yielded a higher average of butter lat than the Jerseys at our B.D.F.A. Show during the first

ten years of the trials.

The result is certainly a feather in the cap of the Jerseys men, and will help to "Loom" the breed more than ever, and will tend to revolutionise some of our ideas on this side of the water. In the light of these results "Cousin" Hoard thus criticises some of our British notions . -

"It is interesting to read in British exchanges the discussions going on in various dairy organisations, and to note how men put forward as esta blished facts, notions that have passed current for years, but which have no been watching the reports of this and foundation in fact. For instance, at the butter-making trials from week to a meeting of the Central Chamber of Agriculture there was a discussion on and a Mr Rigby said:

" All who have handled milk were well aware that there was immen-e difference in it. The milk of Leicestershire contained more curds than that of Derbyshire. The milk of that of Derbyshire. The milk of Channel Island cows produced more butter than that of Ayrshires, but the latter was best for cheesemaking.

"Looking at the statement in the result of the World's Fair contest, just decided, it would be pertinent to inquire wherein Ayrshire milk is better than Jersey milk for cheesemaking.

" It is true that milk low in fat content, whother it be of one breed or -such another, may be better put at cheese making sometimes han butter. This one which can only be answered by the market rate for each and the eco-

> The last sentence pretty well sums ing which have ever been carried out,

(t) In England.

but it is manifest there are [n great] who was actually picking berries, callmany things the ordinary daily farmer ed out, "Come on, come here, this is a has to consider besides these noted at these trials, and which cannot possibly be reckoned for in any trial short of actual ordinary farming. There are such things to be considered as the cost of the animals to begin with, rate, and so on. Then again there is the

buttermaker, is now shown to be pro eminent as a cheesemaker. I should greatly like to know if the system of cheesemaking pursued was the same as regards all the three breeds—that is, in such matters as quantity of rennet, temperature, acidity, and so on. Mr Rigby is quoted above as saying that Ayrshiro milk was the chemical composition, but because the far from it in no spirit of boasting—the butter globules are small, and thus do not readily rise to the top as cream, or become expressed in the whey, but or become expressed in the whey, but are retained in the curd without much trouble. On the other hand, Jersey milk with its large globules and large percentage of fat would give a considerable amount of trouble. I have to be skimmed before the cheese made would ripen properly in the old days peet of dairy matters in Canada? Canadian system, and I therefore hope that some of the American authorities will give us some details regarding thousand and thousands of dollars, to the actual making and ripening of Irish and Danish farmers, every cent the cheese of the different breeds. A of which ought to go into the pockets great and exhaustive trial like this of the farmers of Canada. Let us wants to have every little detail distance. whole milk, and the necessity of some logal standard of fat was talked upon and a Mr Rigby said: wants to have every little detail discussed and explained.

PRIMROSE McCONNELL, B. Sc.

## THE ADVANTAGES OF DAIRYING.

BY MRS, E M. JONES.

I have been asked to propare a pa per on dairy matters, to be read before this, the first Farmers' Congres of the province of Quebec. I can hardly tell which feeling predominates in my mind; intense pleasure, at the honor done me; or a deep sense of the importance of this occasion I need not enlarge upon my own diffidencesuch remarks are an old story, but I will tell you why I respond so cheer fully to the call. When I was a child, I often went, with my companions, to gather wild strawberries; but some-times they were scarce, and the search was tires one. If a passing farmer said. "Children, I hear there are good straw berries in such a field, over yonder," ration is divided into two feeds and we hardly trusted him, and did not given night and morning, upon the

splendid place" we just tumbled over one another in our anxiety to get

there, and all shared in the good luck Now. I have found "a good place" in dairying, a great place and I want you all to come on, just as fust as you can, and share in my luck. My whole life has been spont in dairying, and after struggling through untold difficulties, and proving each step as I went, by dear bought experience, I have at last attained a brilliant success, and I want others, to share it I look at it in this way

The average cow of the country makes 150 lbs. butter a year, which sells at an average price of 20 cts. In deed, I doubt if they do as well as this !

My cows produce from 250 lbs., all the way to 500 lbs. of butter a year, and sometimes, far more. butter solls at 35 cts. a lb. all the year round, at my own place. I have no express or freight charges to pay, and I do not even have to print it.

My dairy has become famous all through the States and through Canada, and I have now lying on my desk letters from Dairy Associations in Michigan, in Wisconsin, in Indiana, in Connecticut, Vermont, New York State, and the grand old province of Quebec, all urging me to come to their Dairy Conventions, and lecture on dairy-cows and butter-making. All these societies offer to pay my expenses, and most of them, offer a handsomo sum in addition. most suitable for cheesemaking, and I deeply sensible of the honor these have hitherto believed this also, not because of anything special about the point of it, I yet ask you to believe that I chemical composition but the property of the property realise what it means? Let us consi der it. If we could actually double dairy products of our country, and also, get a higher price then we do; and if, to do this, we need not known of even Ayrshire milk requiring tor feed, for attendance, and for barn room, would it not alter the whole as

> Just think of it-of all that it means to us? Why, England pays annually our own Dominion We must increase our products and increase our profits And one great way of making too. more profit is, to follow the teaching of all great Dairy Schools and Colleges. They continually tell us to "Lessen the cost of production." How is this to be done? By starving our cows? Far from it. But by keeping a better class of cows, feeding and caring for them better, and using more skill and We thus care in making our butter. increase our output, and, at the same time, we lessen the cost of production. Do not think I advocate too high feeding, for that is almost as great an error as starving your cattle. Feed generously, and of suitable material, but find out each cow's capacity and feed her up to the highest point at which she pays for the feed, and not one bit beyond it.

In my herd, the usual grain ration for each animal in full milk, varies from 7 to 10 lbs, per cow, each day. This is composed of ground oats. ground peas, wheat-bran, and, occasionally, a very little oil meal. The ration is divided into two feeds and always go. But, if one of our number, silage. Should the silo be empty, the