two cows were pretty evenly matched, ers can soon be good judges of dairy so far as it relates to their weekly butter yield; but at the close of the winter's work there was a marked difference in their yield. Houseon was still giving 12.6 pounds per week, while Ethel was giving only 4.4 pounds. During the period covered by this chart. Ethel gave 123.7 pounds of butter at a cost of 7.8 cents per pound, while Houston gave 210.5 pounds at a cost of 4.6 cents.

How are we going to tell the kind or a cow it calf will be ? There is onpoint in a cow to look at first, and the same point in the calf, which is this With the eye I measure the distance trosa the tail, about half way down from the rump, as it drops straight down to the rear line of the thigh, and the greater the distance between those points and the more curving the thigh the better the cow.

Lately we had a delegation of some eighty farmers, from Mecker County, to visit the Experiment Station, They went down into the live stock room and we brought in six cows, and as they had some doubts about our ability to discover the kind of a calf turn would make the best dairy cow, we sent for the calves, and they were simply miniatures of the cows. Now. there are also many other points to be considered in the judgery of a cow, but we always try to do away with the little details, laying more stress on fundamental principles, so that anyone with an eye can see for himself. When we have decided as to the disposition ar animal makes of food, the next thing is,



TYPES OF DAIRY CATTLE-GUERNSEY.

how much work will the cow do from day to day, and that is measured by the depth from the middle of the body, the grist-mill that the animal carries, and the larger the mill, the greater the

We hear a great deal about selecting cows by the Babcock test. I would rather trust my eye than the test; for this reason, the test will tell you what the cow will do for this day, or this week; but it will not tell you what the cow can do from year to year. (1) The Babrock test told me that Ethel was just as good as Houston, but it was not so. The Babcock test simply tells you what the cow did for that particular period, but it is silent as to the relative cost for the period of lactation, or as to the cow's staying qualities.

I don't want it to be understood that I am making any criticism on the Babcock test. I mean only to say this: That it is not good for everything, and not a reliable thing to select cows by. I am aware that few people have given this subject the attention that I have. and, of course, do not size up a cow as readily as I do, but the real foundation principles are just as plain as A B C. and by paying attention to them farm-

CONS.

I want to say just a few words on the wonderful opportunity which hes, at the present time, in the dairy business, Farmers do not understand the advantages they have in dairy work. If they did, I am sure they would pay a great deal more attention to it. Nine-tenths of the farmers seem to think that the dairy cow is a good deal of a nuisance, and yet there is not a single animal that teturns to the farmer nearly as large a percentage of profit as the little dairy low, and I am astonished that farmers spend so much time with other matters and give so little to the cow,

I want to raise a warning voice on another point. I have never yet purchas ed a fine cow and removed her from her former surrouxilings, and had her do good work the first year. If she is an old plug, and has no fine nerves in her make up, she will not care where she is, and will be just as poor a cow the second year as the first year she was at the station, but as she became accustomed to her surrougalings, and had good care and generous feeding, her digestive organs were developed, and got in good working order, she became contented, and produced 450 to 500 pounds of butter per year.

There were two cows in our nerd that had been together all their lives, and had become very much attached to each other; but it became necessary to remove Fortune, one of them, and place her in another barn. As soon as Duchess found her mate gone, she began to kunt from stall to stall for her lost companion. She would go all over the pasture, looking through the clusters of tices, trying to find her. She suffered so much because of that senaration. that she rapidly fell off in her flow of milk, in spite of all we could do. I went down to the other barn to see Fortune. She was glad to see me, but kep! looking out of the window for Duchesand she, too, and fallen off in her flow of milk. When these cows were together they would pass the whole winter without any perceptible change in their flow of milk. How careful we should be, not only to feed our cows preperly. but to do everything in our power to make them contented and happy. Then only can we hope to get the maximum return.

I have here a little memoranda of the cows at the experiment station, covering the work done since about the fifth of last October.

Here is a cow that gave 14 1-2 poundof butter at a cost for feed of 2.37 cents per pound. The last week in October she charged 45 cents per week for board, and gave 15 1-2 pounds of butter.



TYPES OF DAIRY CATTLE-HOLE STEIN-FRIESIAN. (1).

She gave me, the week before, 19 pounds of butter, charging 3 cents per

(1) Why not say "Dutch." at once ?-

a native. When I bought her, with the Commissioner's Wharf, Quebec, other cows, the farmer thought she was where there are two lines of rallway enother point, and that is in regard to not worth the space she would occupy in the car. She charged me, when she was tresh, only 2.6 cents worth of feed the wharf, the rondway is also very per bound of butter, and in January, only 5.2 cents per pound, and size is the poorest kind of a little scrub.

> Here is a cow I was told would beat them all, weighing 1350 bounds. She gave ten pouzals of butter when fresh, and six pounds at the end of Jaquary, at a cost of 4.43 cents per pound-a poorer showing than any of the other cows.-Report in Hoard's Dairyman.

Prof. HAECKER'S CHARTS.

Two of the charts used by Professor Haceker in his beture on the cost of production are given below in the one table and a study of them on the lines indicated by the lecturer will put the reader in possession of much valuable Gairy Information. Here are groups I. and IV, of the experiments:

Here is another cow, a little runt of and bonded goods are all situated on coming to the stores' doors, steamers and barges can land at three sides of good.

> Butter and other goods intended for shipment to England are put into large chambers in the outer end of the building, from whence they are carried mrectly to the refrigerator steamers, which call every week, by means of a shoot specially adapted for the purpose.

> The Company also has several small rooms, of different sizes, most conveniently situated, and kept at a temperature of 150 and lit with electric light. These rooms can be had at a low rent by persons wishing to keep dead meats. or for any other purpose.

> The Company's charges are 12 1-2 cents per 100 lbs, of butter per month, and 5 cts, a box of cheese per month; insurance is made on goods, when requested, at the lowest cost as the Company carries large open policies.

Persons visiting Quebec are requested

GROUP L-BEEF TYPE, BLOCKY AND PLUMP.

Cow.	Weight.	Breed.	Lbs dry mat p.day p 1000 lbs. live weight	Lbs. dry mat. p. 1 lb butter fat.	Lbs. of butter fat fr. 100 lbs dry mat.	Cent 1 1 lb, but- ter fat. Cts.
Fancy Dido Sully	. 1,215	Polled Augus Short-horn Short-horn	15. 11 14 .61 19. 96	32.47 32.36 28.94	3. 08 3.09 3. 45	18. 1 18. 2 16.4
Average	1,210		16. CG	31.25	3. 20	17. 5
GROUP	tv.—co	WS SPARE AND	ANGULA	R WITH DE	EP BODIE	s.
Annie	_	.lersev	25, 80	21.68	4.61	12.8
Bt 85		Holstein	22.04	21. 29	4.69	.2.3
lora		Jersey	22,33	18.11	5, 42	11.1
Gertie		Grade Jersey	23, 20	21, 53	4.61	12.3
Houston		Jersey Guernsey	28.24	20. 16	4. 96	10.8
Patery		Grode Jersey	22, 20	22. 27	4.49	12.6
Pride		Jersey	24. 82	21. 18	4.72	12. 6
Rose		Short-horn	17. 87	21.37	4, 67	12. 9
Roxy		Grade Jersey	23. 52	21.91	4.56	12. 4
-west briar		Guernsey	25,65	23.06	4. 33	12.8
Topsy		Holstein	20.91	20.04	4.99	12. 0
Fricks y		Guernsey	26. 16	20.88	4.78	11.4
Average			23. 58	21. 15	4. 73	12. 1

QUEBEC COLD STORAGE AND to call and look over the works of the WAREHOUSE COMPANY

COMMISSIONER'S WHARF.

This company has now insulated pace of 100,000 cubic feet; to cool it, they are putting in the most modern refrigerating machinery (that of the Linde British Refrigeration Coy). They will now be able in midsummer or any other time to keep the temperature down to 150 in any part, or the whole of their building. But it is the Comnany's intention to have the different rooms kept at different degrees of cold. in order to have everything in that temperature which is best suited to it, as butter at about 150, and cheese at about 420. The company is, however, also prepared to receive eggs. fruit, tish, dead meats and all other kinds of goods and merchandise; as their facilities are the best, and great care will be taken of all goods sent them.

There is no danger of anything being tainted, as the system is that of the circulation of purified and cold air, thus the air is always pure when entering the chambers, and is being constantly changed : gases and dust are also done away with, and the danger of fire greatly lessened, for no coal or steam is used on the premises, the elevator and all the machinery being worked by electricity, the buildings are also lit with electric light.

Company.

People who wish advances on their goods can obtain them as soon as they are placed in our stores.

BAD FLAVORS TRACED TO THEIR SOURCES.

Among the many excellent papers presented at the late meeting of the Wisconsin Dairymen's Association there was cone of more every day, practical importance and help to the butter maker-especially the creamery butter maker—than the one prepared and read by Mr. Geo. D. Mansfield, of Edgerton.

The topic assigned him was the Effect of milk upon the finishedp product," but modestly disclaiming any knowledge upon the relation of bad flavors in milk to the resulting cheese, he narrowed his subject and read as follows:

THE EFFECT OF MILK FLAVOR ON BUTTER.

It is a well known fact that the davor of the milk, furnished for butter making, has much influence on the flavor of butter. In my capacity as a huyer of butter and judge of butter manufactured at our company's creameries, extending over the last six years. I have discovered to my satisfaction that with few exceptions the foreign The warehouses for cold, ordinary flavors found in butter are caused from