through a strainer made out of ordi nary cheese cloth. The common barrel churn is perhaps one of the best for the farm dairy. Do not churn too fast when starting, and draw the plug 2 or 3 times to allow the gas which accumu lates to escape. In about 30 to 45 minutes, the butter should show itself in the form of small grains. Add water. at a temperature of not more the 500. at the rate of 1 gallon to 5, continue churning until the grains show the size of small wheat; then, draw off the butter milk. No occasion to turn the churn after this stage; 2 or 8 waters poured on from a good height will complotely rid it of all the butter milk. Do not unnecessarily flood it with water, as it tends to injure the flavor.

#### SALTING AND PACKING

Lift the butter out of the chura and weigh carefully, place on the butter worker and add salt at the rate of one oz. to the pound, or, better still, just unough to suit your customers' tastes; work just enough to mix thoroughly.

of 560 in summer and 600 in winter, it of long hay each day. The Rural should be strained into the churn New-Yorker" has often told its readers of a new horse food in which hay, corn and outs are all ground to a coarse powder. This feed is, we understand, giving the best of satisfaction and is containly more economical than long hay and whole grain .- " Rural New-Yorker "



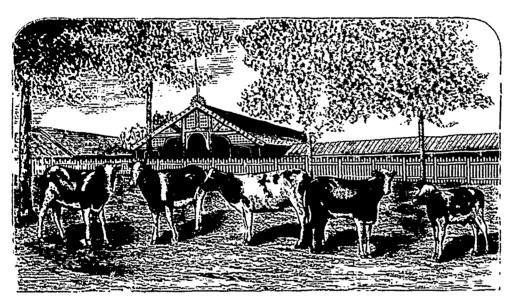
Square cheese is not unknown, but the fact that cheese is put up in 20 pound boxes is new perhaps to many. Geo. B. Whitmore & Co., 89.01 Warren found that 100 pounds of ensilage from street, large dealers in butter, cheese and eggs, received this week, a lot of the finest quality full cream cheese, put up in 20 pound packages. The package is an oblong box about  $7 \ge 7 \ge 10$  inches. This cheese is made in the state and bears the state brand. "We have met with an excellent demand for this cheese," said Mr. Whitmore," from uptown grocers, and have got 11c per pound for it, %c more than for the highcst quality in round cheese." One ad-

schage on ten acres, and it sustained 25, termed firsts. head of cattle 192 days-a result which ten acres of cured fodder.

Use the largest variety of corn that will mature before frost. Experiments at the Pennsylvania station show that as corn approaches maturity the amount of nutriment it contains and the diges tibility both increase very rapidly. The total yield of the digestible food by the matured crop was two or three times that of the same crop in the silk, and 36 per cent greater than when the ears began to glaze. The Minnesota station the Northern and Southern, and sweet corn, all contained about the same feeding value.

Silage is distinctively a cattle feed, but the Kansas station finds it not good for feeding bulls. It may be fed in moderation to horses, pigs, poultry and sheep, but sour silage is dangerous to sheep.

There has been some complaint that silage gives milk an unpleasant flavor. This is probably due to sour and decay place away in a cool place for 24 hours, vantage that we claim for the cheese is ing silage. The Kansas station found



FIRST PRIZE "BREEDBR'S YOUNG HERD " OF PUREBRED GUERNSEYS,

As shown at Montreal Exhibition, 1896. The property of the Hon. Sydney Fisher, Knowlton, Que. [Nots-The Breeder's Young Herd is to consist of one bull under two years, two heifers of one year old and under two years, and two heifer calves under one year; the whole, except the bull, to be bred by the exhibitor.]

in tubs, which have been lined with cheese, being cut square instead of a V parchment paper, cover with parch ment paper the top, then make a thick paste with salt and water and spread it evenily over the surface to exclude the air. You should now have a tub of butter which will keep perfect for months, under proper conditions, and at the same time please the most fastidious.

## TIMOTHY HAY EXPENSIVE FEED.

Mr Manchester tells us how he uses bran in the place of hay for ferding cows. Pound for pound the bran is cheaper than the hay, and if the latter were ground as fine as the bran, it would occupy but little more space In fact, as we have often stated, timethy hay is the most expensive food one can give to a cow. At the writer's home good hay sells at \$22 a ton from the farm. The best of baled hay cannot compete with it. With a silo and a few acres of oat hay to feed as dry rough age, our farmers might sell nearly all their timothy and thus make it one of the best crops on the farm. Many people still thak it a wise policy ro

work the second time ; then, pack away that it cuts better than the ordinary that if the shage be fed just after milk shape, thus preventing it from drying so quickly. From the urgent demand we have had for this cheese, 1 should say we will handle a considerable quantity of it from now on. "-"N. Y. Butter Trade, "

## SILAGE EXPERIENCE.

According to the Agricultural Department at Washington, a compilation of experiments from various Experiment Stations shows the following results : The Massachusetts station found mixed silage of corn and sola beans very fine. Vermont station made a superior silage of oats and vetch; also of onts and neas.

Silage produced more milk at the (this station, more butter at the Pennsylvania station, and more mutton at the Michigan station, than beets. Even when there is a loss of 20 per cent in the feeding value of sllage, it is a cheaper feed than roots. The Wisconsin station preserves silage at a loss of only S per cent of its feeding value. The loss in curing fodder is never less than 20 per cent.

The Pennsylvania station found sliage stuff a horse with 20 pounds, or more, and cured fodder about equally digesti- size or that are mutilated are classed

ing, instead of before, this disagreeable flavor disappears .- "Hoard. "

#### RENNET

Ronnet is a ferment found in a calf's stonrach. It has the power of curdling and digesting milk.

Who discovered the use of rennet in cheesemaking is not known, but we have a record three thousand years old that Jesse, the father of David, sent ten small cleeses to his sons in the Hebrew army, and we think it probable that he used tals peculiar ferment of the calf's siomach to make the cheese referred to. Rennet is also found in the sheep and plg, but the rennet extract of modern commonce is made from the stomach f calves killed when a week old.

The best rennets are called Bavarian, locause they come bagely from Bavaria The suply, however, is not restricted to Bavaria. In Europe the farmer kills the calves at the right age, and just after feeding. The stomach is hung up in a smoke house to cure. There is a relidelle-man who goes from farm to farm, buying hides, tallow, etc., and rennets. He, in turn, sells these things to the wholesale houses, where the renacts are sorted. Any not of uniform

ble. Kansas station grew 100 tons of as seconds, while the uniform ones are

The sorted rennets are bought up by it is thought could not be attained with the houses that make the rennet extract. Some houses buy the seconds to make cheaper but inferior extract.

Remnet extract is a solution of the ferment in water, with salt added to niesorve it.

Several hundred or thousand stomachs are put to soak in a large vat of water, or rather brine. The vennets being sorted are very uniform in strength, at least average uniform, where so many ac used, and consequently the extract is of uniform strength where a certain number are sonked in a stated quartity of water.

The extract is made a little stronger than it is sold, and is then diluted to a commercial strength.

Before soaking the rennets are cut open so that the water can easily get into them.

Bennets that are old or that have been kept in cold storage make deeper colored extract. I am told by a prominent manufacturer that the color of extract is not an indication of its strength.

Extract should be kept in a cool and perfectly dark place to prevent decomnesition.

It should also be kept tightly corked. Do not let rennet freeze, as that will also spoil it.—John W. Decker in Hoards Dairyman.

# The Horse.

## Ranch horses consigned to the Netherlands - Notes - New - York Horse-Show - Frightfull condition of roads in the Province of Quebec -Suggestions for good roads.

We cannot boast of having had a file Autumn this year. What used to he our boast in the way of Canadian weather, has not been realized during September, October or November. I see that a suggestion, often made by various friends of mine, as well as by myself, has at last, been carried out, and that a consignment of 33 ranch horses was shipped on the 22 of last month, for military purposes, to the Netherlands Government who is pleased, with the experiment will take 200, annually. If they are like the lot of 50, sent down and sold at auction, in the G. P. R yards two years ago, from the Quorn Ranch, they are just the right sort for troopers. "The twelfth annual Horse Show, New-York was first last and all the

time a show for high steppers; as the A I heavy harness horse is now called, and, as most of these horses were docked trotters, it may be said that it was a trotting show. (I have known Americans before now, who were under the impression that a docked trotter was a hunter.)

"One fault on the part of the judges in the heavy harness classes still remains, the great speed at which some of the horses were sent round the ring. It is true that the converted trotters used in the majority of the traps need heavy-weights and a clipping pace to show action, but this does not make it right. Almost without exception the regular limit of speed in the cities of the world is six to seven miles.

"For the first time, the Horse Show gave liberal prizes for French Coach horses, and, also, for the first time .. " did the New-York public gain as