## Agriculturist mo $\mathfrak{a n u d i a n ~ I o w r n a l . ~}$ <br> TOFONTO, JUNE $16,1848$.

## CHEESE DAIRIES.

In this number we have given the remainder of an article, being the report of a committee of New York State Agricultural Suciety, on the above subject, copied from the Transactions of the Society. The remarks of the committee, as well as the matter taken from the work of Mr. Youatt, are worthy the attention of every farmer who is in a situation to follow the business of cheese and butter making. It is by seeking the best information that can be had, and endeavorIng to make it our own, that we may expect to attain to perfection in the several branches of domestic economy. The bad butter and the inferior cheese that are brought to market in the different towns of Canada, are a reproach to our farmers. Too much attention has been given to raising grain, or, we should rather say too exclusive attention. Cheese has been made in such small quantities, that it has not been thought worth much trouble or care. We hepe, soon to sten signs of improvement, and to cee on the shelves of our grocers, an articie of home manufacture, that will take the place of what is now imported :-

## Cheshire Cheese is generally made with two meals cf milte.

"The generel custom' 18 , to take about a pint of cream, when twomeal cheeses are made, from the night's milk of twenty cows. In order to make cheese of the beat quality, and in the greatest abundance, it is admited that the cream should remain in the milk. The mote common practice in, to set the evening's mills apart till morning, when the cream is skimmed off. and three or four gallons of the milk are poured: into a brass pan; which is immediately placed in a surtace of hot water, and made scalding hot; then half the milk thus heated, is poured into the night's mills, and the other half is mixed with the ereans, which is thus liquifed, 50 as when put into the eheese tub to form one uniform fluid. The morming's milk 18 then mmediately added to that of the evening, and the whole mass is at once set together for cheese.
is The renner and coloungg being then put meto the tub, the whole is well strred together; a wouden cover is.then put into the tub, and over that is thrown a liren clotf. The usual. time of 'coming' or surdling, is one hour and half, during which time it is frequentiy to be examined. If the cream rises to the surface before the mixing takeś place, as it of:en does, the whole must be stirred together so as again to mis the milk and cream; and this as often as it rises, until coagulation commences. If the dairy woman finds that the nilk is cooler than was intended, or does not come on account of coolness, hot water or hot milk may be poured into it. This must, however, be done before it is all coagulated, for the forming of the curd must not be tampered with. If it is too hot, the opposite means may be resorted to; but the more general practice is to suffer the process to proceed hot as it is, untii the first quantity of whey is taken off, a part of which, being set to coul, is then returned into the tub to cool the curd. If too lithe appears to have been used, it renders the card exceedingly tender, and an additional quantity may be put in, bui this must be done before the cuagulation takes place, for if added afterwards, it win be of little efiect, as it cannot be used without disturbing the curd; which can then unly acquire the proper degree of toughness; by having heated whey poured over it.
"When coagulation is formed, a point which is determined by gently pressing the surface of the milk with the back of the hand; but in this test experience is the only gaide, for the firmoness of the curd, if the mill be set hot together, will be mach greater than that from the milk which has been set cold together. If the curd be firm, the usual practice is to take a common case-knife, and nate incisions across it to the full depth of the blade, at the distance of aboat one anch, and again crusimise in the same namaer, the incivions antersecting each cifier at right angles. The cheesemaker and two assistants proseed then to break the curd, by repeatedily pressing their hands dovn into the tub, and breaking every part of it as small as possible; this part of the basiness being continacd unil the whole is uniformly Eroken sinall; it generally takes about forty minites, and the curd is then left corered over with a cloih, for about holf an hour to subside.
*The bot:om of the tub is set rather atilt, the curd is collected to the upper side of 1 , and a board is introduced of a semi-circular form, is fit loosely one hulf of the tubs bottom, Thia board is placed on the curd, and a sixis pound weight upon it, to press out the whey, which draining to the lower side of the tub, is ladled out into brass pres, oush parte of the curd as are pressed from uniles the board, ase cut of with a knife; "placedrander the wêighted board, and again
 Whoy is eprisely drawn from the suata. The vitiole ingos of cura is

is cut into pieces of eight or nine inches square; piled upon each other, and pressed both with the weight and hand; these several operntions being repeated as long as any whey appears to remain.
"The next thing is to cut the curd into three nearly equal portions, one of whicn is taken into a brass pan, and fs there by two womed broken entirely fine; a large handful of salt being added and well mixed with it. That portion of curd being sufficiently broken, is put into a cheese vat, which is placed to receive it, on a cheese ladder, over the cheese tub; the vat being furnished with a coarse cheesa cloth. The second and third portion of the curd are treated ith aldo same manner, and emptied into the vat ; except that into the middle portion eight to ten times the quantity of salt is usually put. By some dairy women, each portion is salted alike, with no more than three large handsful to each.
"The curd, when put into the cheese-vat in its broken state, is heaped above the vat in conical form, to prevent it from crumbling down, the four corners of the cheese-cloth are turned over it, and threc-women placing their hands against the conical form gently, but forcibly, press it togethier. So soon' as the curd adheres together so as to admit of it, a small square bjard, with:'a corner of the cloth under it, is put on the top with a 60 lb . weight or a lever is preseed upon it. Several iron skewers are at the same time sluck in the cone, as well as through holes in the side of the vat, from which they are occasionally drawn out and fixed in otier spots, until not a drop of whey is discharged. The weight and skewers are then removed, and the corners of the cloth are either held up by a woman, or by a wooden hoop, while the curd is broken as emall as possible, and skewering is repeated. The women then take up the four corneris of the cloth, while the vat is draun away and rinsed in warm whey; 8 clean cloth is then put over the upper part of the curd, and it is returned inver'ed into the vat. It is then broken half way through as before-these operations occupy from three to four hours."
"When no more whey canbe extracted by these means from the cheese, it is again turned in the vat and rinsed as before in warm whey. The clotly now made use of is finer and larger. fhen the former, and is 20 laid, that on one side it shall be level with the edgs of the vat, and on the other wrap over the whole surface of the cheese; the edges being put within the vat, thusperfectly enclosing the whole mass. In this stage of the business the cheese is still higher than the edge of the vat; and to preserve it in due form, recoarse is had to a binder, aboat three inches bread, either as a hoop, or as a cheese-fitter, which is a'strong, broad coarse sort of tape, which is put round the cheest, on the outside of the cloth, and the lower edge of the Einder pressed down aithin the vat, so low as that the upper edge of it may be level with the surface. The cheese is then carried to the press, and, a smooth strong b.ord being placed over it, the press is gently let down upon it, the usual power of which is 144 or 15 cwt. In most dairies, however, are two preases, and in many three or four, of different weights; the cheese being by some put first under the heaviest, and by others under the lightest.
"As soon as the cheese is put in the press, it is immediately well skewered-the skewers being of strong wire eighteen or twenty inches long, sharp at the points and broad at the end; the vat and binder having holes, seldom more than an inch asunder, to receive them. As the press always stands near the wall, only one side of the cheese can be skewered at the same tune, and it must therefore be turned half way round, whenever that is necessary ; but this occasions no inconvenience, as the skewers must be frequenily shifted, and many more holes are made than skewers to fill them. In half an bour from the time the cheese is first put in the press, it is taken out again, and turned, in a vat, into another clean cloth, after which it is returned to the vat; but is by some persons previonsly put naled into warm whey, where it stands an hour or more for the purpose of hardening its coat. At six o'clock in the evening the cheese is again turned, in the vat, into another clean cloth, aud some dairy women pick its upper surface all over an inch or two deep, with a view of prevezting blisrers. This can be remedied if they occar by opening them with a penknife, and pounng hot water into the meision; then press down the outer side, put on a litule salt, and place a plece of slate with a half pound weight on it. At six o'clock the following morning it is again turned in the vat, with a clean cloth as before, and the skewers are laid aside; it is also turned two or three tumes more, both moraing and evening, at the last of which fner cloths are nsed than at first, in order that as limle impression as possible may be made on ins coat.

After the cheese has remained about foriy-eight hours under the press, it is taken out, a fine cloth being used merely as a lining to the vat, without covering the upper part of the cheese, which is then placed nearly mid-deep in a salting tub, its upper surface boing cavered all over with salt. It stands there generally about three dayo- 3 turned daily, and-at each turning well palted, the cloth being changed twice in the time. It.is then taken ont of the vat, in lieu of which is wooden hoop' is made we ofs equat-in breadth to the thiokness reidily
 srands about eight days, being well galted all over, and turaed, zona day. The cheege is then $\ddagger$ ablied in lake-wam fater, npd affer being priped, is placed on the, drying bench, where itremainitubeat sétion lays; it is then again waked ant dried as before, and after franias


