THE BRITISH AMERICAN CULTIVATOR.

thus save the labour during the best part of 'to the surface, is richer in point of quality, the season, which is so frequently lost. The and greater in quantity, than that which ri-

OF THE MANAGEMENT OF MILK AND CREAM, AND THE MAKING AND PRESERVA-TION OF BUTTER.

The quality of milk greatly depends on the nature of the food, and which likewise materially affects the quantity that the cows will yield. This last circumstance is, to a certain degree, influenced by the manner in been put into proper vess which the cows are milked; the dairy-man; ter it came from the cow. therefore, should pay a little more attention to this introductory process, than he is al-ways accustomed to do. If a cow is roughthat it should be drawn to the last drop, or it will otherwise decrease at each succeedby no means be harshly or severely treated. If the udder is hard and painful, it should be fomented with lukewarm water, and stroked

In this country, it is the general practice distant as possible, viz. very early in the morning, at noon, and a little before the ap-proach of night. It is a well known fact, summer, and warm in winter, put into the that cows when milked thrice in the day bottom of the milk-pan, will assist the rising yield more milk in point of quantity, and of of the c.cam; but some persons imagine as good, if not better, quality, than they will that it is prejudicial to the butter. under the common mode of m.'king them only in in the morning and evening. Very only in in the morning and evening. Very ally, to make batter of a very face quality, the particular directions should be given that milk of all the cows that yield cream of a particular directions should be given that mink of all the constant puld be rejected, the expense of the remaining mink, to which the cows are driven slowly to the place of bad or inferior quality should be rejected, the expense of the remaining mink, to which the cows are driven slowly to the place of bad or inferior quality should be rejected, the expense of the remaining mink, to which the cows are driven slowly to the place of bad or inferior quality should be rejected, the expense of the remaining mink, to which the cows are driven slowly to the place of bad or inferior quality should be rejected, the expense of the remaining mink, to which the cows are driven slowly to the place of bad or inferior quality should be rejected, the expense of the remaining mink, to which the cows are driven slowly to the place of bad or inferior quality should be rejected, the expense of the remaining mink, to which the cows are driven slowly to the place of bad or inferior quality should be rejected, the expense of the remaining mink, to which the cows are driven slowly to the place of bad or inferior quality should be rejected, the expense of the remaining mink, to which the cows are driven slowly to the place of bad or inferior quality should be rejected. very slight degree, the separation of the each cow. The quality of the butter will milk into its constituent parts, will not so also be improved in proportion to the small-readily or perfectly take place. If cleanly ness of the quantity of the last-drawn mulk ness were attended to as much as it ought, that is used, as it increases in radiness to the teats would be washed with water and a sponge before the milking commenced

After the milk is drawn from the cow, it should be carefully strained througd a gauze ' drawn cream. or linen cloth, stretched on an open-bottomed wooden bowl, or a hair sieve, in the cream-

ity. If thick much therefore is diluted with milk is let off by taking out a plug in the water, it will afford more cream than it bottom of the pan. When the cream has would have yielded in its pure state, though been thus collected, it should be put into a its quality will be inferior.

Milk carried about in pails, or other vessels, agitated and partly cooled before it be with a stick or spoon, once or twice a day, poured into the nuk-pans, never throws up until made into butter. The object of this

From these fundamental facts, some important inferences, several of them already

great advantage in a dairy-farm, where the dopted, unless it be intended to churn the practice of house-feeding is not adopted, to moment the whole mass has become acid. have the principal grass fields as near the In some counties the separation of the separation dairy homesteads as possible.

with greater freedom. They are also pre-vented by the motion of their juys, from the agitation and cooling; but also because it off from the fire, and put carefully away for babit of withholding their milk, by means prevented, the owner of the dairy from dis-twenty-four hours in order to cool. At the of which, if it is not properly prevented, tinguishing the goad from the bad con's they would soon become dry. profit that he derives from each cow. A betto milk cows twice in the course of twenty-four hours, throughout the year; but in sum-milk drawn from each cow separately or convenient size, and removed by means of a mer, the proper periods are at least three from only two or three cows, put not the skinmer, and is called *clotted* or *clouted* every day, and at intervals as nearly equi-distant as possible, viz. very early in the bainer is to be a constant of the second of the being mixed with any other.

summer, and warm in winter, put into the companion of the breakfast table, and much bottom of the milk-bas, will assist the rising, valued as an addition to the fruit pie, or

3. If it is intended occasionally, or generness of the quantity of the last-drawn milk the very last drop that can be obtained from the udder. The best batter will consist of the last-drawn mill, and also of the first-

Milk consists of three component parts, the but fractous, or oily substance, of which pans, which should never exceed three mch. butter is composed; caseous matter, from es in depth, though they may be made so which cheese is formed; and the serum, or es in depth, though they may be made so which cheese is formed; and the serum, or wide as to contain any quant'y required, whey. The comparative value of different if any ill-flavour is apprehended from the daries, and of different cows, in each dary, cows having eaten turnps, &c, the addition of one eighth part of boiling water to the the compound of these three substances milk, before it is poured into the dishes, will but also the quantity of butter in a given works a stick or pole, four feet in length and in a great degree remove it, or the solution quantity of milk. These three ingredients two inches in diameter, to the bottom of of nitre may be used. These pans when differ materially in specific gravity or weight which is affixed a circular board, somewhat In the process of milking it should be re. in specific gravity is the wher, and the curd holes. The cream is poured into the churn membered, that the malk first drawn from a is the heaviest. The manufacture of butter until it is about two thirds full,—the stick membered, that the milk first drawn from a is the heaviest. The manufacture of butter (until it is about two mirus (u),—the stick cow is always themer, and inferior in qual-ity to that afterwards obtained; and this part, and that is a mere inechanical affair. and the cover placed over this, admitting richness increases progressively to the very. The milk is left undisturbed, and thus the last drop that can be drawn from the udder. lightest portion mechanically builts the heal perture in its centre. The churner now It should also be recollected in the after vier one, and floats on the top. The sepa- igrasps the stick in both hands and moves it process, that the portion of cream rising first, ration of the card from the serum—the man_ rapidly and forcibly up and down. The

ufacture of cheese-is a chemical process, and is effected by means of a peculiar acid.

to boke or drawers at the top, are made so as ses in the second equal space of time, and to hold about eight pounds of honey, and so of the rest; the cream continually de. other component parts of the milk in about may be removed when they are full, or creasing, and becoming thinner and poorer. twenty-four hours, in a medium tempera-sooner if desirable.—ib. The cream, having separated from the of cream than that which is thinner, though skimming dish, and poured into a vessel, un-the cream of the former is of a richer qual. 'til enough is obtained for churning, or the deep covered vessel, for the action of the air on the surface dries it, and also stirred poured into the mins-pans, never that is to produce a slight actually, by mins-such good and plentiful cream as if it had is to produce a slight actually, by mins-been put into proper vessels immediately af-ted. The time of keeping depends on the ted. The time of keeping depends on the weather: if the cream from each milking has been kept separate, it may remain from ways accustomed to do. If a cow is rough-hinted at, and serving to direct the proceed-will also cause her to withhold a portion of her milk, whereas, if it is gently drawn, she will yield it freely; and it is of importance, dary as possible, in order to pretent the me-that it should be drawn to the last drop, or it will otherwise decrease at each succeed-fore it is put into the dishes i and as coust it will otherwise decrease at each succeed- fore it is put into the dishes; and as cows thus allow each to become sour of itself. ing meal. As it sometimes happens that are much hurt by far driving, it must be a The contrary practice should never be a-cows are fidgety and restless, they should great advantage in a dairy-farm, where the dopted, unless it be intended to churn the

In some counties the separation of the cream from the milk, is not thought to be gently, by which simple expedient the cow will generally be brought into good temper, and readily yield her milk. It is also prop-er to feed the cow at the time of milking, for, while eating, they give out their milk with greater freedom. They are also pre-wint generally be brought into good temper, it is milked, there to remain until the whole milking be finished, before any part is put into the milk-pans, is highly injudicious, tot with greater freedom. They are also pre-only on account of the loss sustained by the milking and reading the pan in the pan it carefully way for more in thickness upon the surface. It is tained in the usual way, and has a peculiarly sweet and pleasant taste. It is the usual some kinds of fruit in their raw state, or in the manufacture of that unrivalled Devonian compound, the syllabub. The milk thus treated yields one-fourth more cream than 'is produced in the common way, but it is at entered into its original composition. It more readily churns than cream produced in the usual way, and forms a butter retaining the peculiar taste of the clouted cream.

The cream thus preserved consists of the butyraceous portion of the milk with some quantity of the serous fluid, and these must be separated from each other. This has heen found to be best effected by agitation. It might be effected on a small scale, by means of a bottle, but is best accomplished by the help of a machine called a churn. This is either formed of a revolving barrel, or of an upright one, wider at the bottom than at the top, and with a moveable cover affixed to it, pierced by a hole. In this hole

108