a can is filed with hot water, and this is placed in the milk in the churn, and stirred about till it reaches a temperature of 55 to 60 degrees." Water-power is preferred for churning to any other, as it is more regular. about till it reaches a temperature of 55 to 60 twenty-six cents per pound, and for cheese degrees." Water-power is preferred for churning to any other, as it is more regular. "When the butter has come, the power is stopped, and a fectiv. An account of a mode of preparing butter the butter has come, the power is stopped, and a pump rigged into the churn; the handle of for shipping, by a merchant in one of thecities of which is attached to the power, and the butter. New England, corroborating the above, may be milk pumped into a reservoir just outside of the cellar, standing on a level with the ground: from this the buttermilk is conducted by a tin pipe the piegery, from which it is dipped out in buckets, and fed to the pigs. After being churned, the butter is thoroughly washed off with cold water; if this be not done, it is difficult to get the buttermik clean out of it. As soon as cool and solid, the butter is taken on a marble or smooth stone table, properly salted with clean fine salt, and worked over thorough ly with a wooden ladle or spatula-the hand nover allowed to touch the butter, as, from its heat, it softens it." After being thoroughly worked, the butter is packed in firking of season ed white oak. The firkin, previous to packing, is well washed with cold water, and then rubbed all round with salt, to prevent the butter from adhering to its sides. It is put down in layers as churned, 3 or 4 inches deep.

When the firkin is filled, a linea cloth is it should be seven feet deep-eighteen inches of which, at the top, should be allowed for ventilat on: the windows to be covered with very fine wire gauze, to let in the air and keep out the insects: the walls to be of stone and pointed, the floor of slabs.

The best temperature at which butter may be procured from cream, as appears by the experiments of Dr. Barclay and Mr. Allen, is in commencing churning from fifty to fitty-five degrees, and at no time ought it to exceed sixty. five degrees; while if it falls below fifty degrees. it wilt be more difficult and labourous to obtain the butter. It was found by Mr. Ballantyne that the greatest quantity of butter is obtained at sixty, and the best quality at fifty five degrees in the churn, just before it came. A mode of on the churn, just octors it came. A more of working butter is said to be practised in some parts of France, which makes it exceedingly compact and hard. A trough is prepared of requisite width. Into it is placed a wheel, which comes within the sixteenth of an inch of the bottom, and turning on a crank. The space in the trough is filled. At one end, which is left open, the butter and brine are pressed in; the other end, being nearly closed, the wheel made to revolve, and the butter comes out at the other, thoroughly salted, and free from buttermilk, in plates of the sixteenth of an inch in thickxess. Great importance is attached to the kind of salt used in preparing butter for the market. Some of the kinds of salt have an injurous influence on the butter, to prevent its keeping.

It has been discovered that most kinds of wood tontain considerable quantities of pyroligneous acid, which decomposes salt in butter kept in such tubs. The lined, or bass wood, is the only one which, as appears by careful experiment, is free from it; others, it is stated, may be freed from it, and thus rendered autable, by boiling three or four hours, well pressed under unter. Much importance has always been attached to the preparing of butter, so that it will keep on board of ships at sea and in warm climates. A simple process is now practised, which is said to be effectual for this purpose; which is, to have good butter well churned, and worked and packed hard and tight in kegs of seasoned white is about two thousand five hundred quarts per oak; the head is then put in, leaving a small annum; and it is calculated that every hundred hole into which brine is poured to fill up the pounds of milk will give three and aquarter ibs. vacant space, and of so much importance is of butter and six pounds of fresh cheeze, four vacant space, and of so much importance is of butter and six pounds of treat cheese, four-these implements may cost more at instituan complete tideemed, to prevent any bad taste, that the teen pounds of buttermik and seventy-six and more ones do, they will find their account in it at plugs for the hole must not be made of cedar or three quarter pounds of whey, where cheese is last. Get the best implements to be had, even if pine, but of cypress or bins wood, as otherwise made Fifteen quarts of milk is, then, considered you have to go out of the State for them, and you it would be injured. After which, these kegs a fair average for a pound of butter, though will thus be able to perform more work in a better are placed in a hogshead well filled with brine of sometimes the milk is so rich that twelve quarts manner, beside saving much labor, and preventing full solution, that will bear an egg, which is make a pound. On the whole, it is thought that a great deal of fretting and ill temper. Try it and then headed up tight and close. The importance one hundred pounds of butter, and one hundred see."

found in appendix No. 19.

In the making of the best butter, rich pastures are considered very desirable. A sufficient diversity of grasses mixed together, is useful. A suficient but there are some weeds which do great injury to the milk. The species of ranunculus known by the name of the Buttercup is said to have effected great injury to the butter in parts of England. An epidemic has also prevailed among cattle in England, which has been traced to the same cause. It it said to be now spreading through this country. The plant is described as being of an acrid poisonous nature, and, by various experiments, it has been proved to be very fatal to animals; cattle will generally avoid it, but they sometimes do not. Those which are confined to limited pastures, are more exposed to it; while those which have a wider range, and can make their choice of plants, suffer less. Greater care should be token to eradicate it from the fields; and by the use of lime among the materials of compost, and freplaced over the butter; on this, half an inch of agent turning over the seeds, which are some-salt; to which is added a little water, to form a brine. The cellar is considered very important; the brine. The cellar is considered very important; the brine is should be destroyed. Ploughing up also of the land may be necessary; but, at ali events, the buttercup, if possible, should be rooted out. Other weeds, too, of a similar nature, and likely to injure the milk of cows, should be taken from the pasture on which they leed; the effecting this object will be more then repaid by the benefit derived from the purer milk and more excellent butter which will be obtained.

cheese to deteriorate.

Mr. G. Davis, of New York, to whose enterrise in visiting the cheese-making districts of Holland much is due, and who supplies the Umted States navy with cheese which will keep on slip board and in warm climates, by which thousands of dollars are saved to the country, describes the cheese thus made under the mapection of a first-rate cheese-maker from Holland, as globular, weight about four pounds each. curd is worked by hand until it is put into other moulds, and salted-that is a small quantity is put upon the end of the cheese, and changed every fifteen days; then it goes through a pro-cess of salting in warm salt whoy for forty-eight hours and is then taken out and wiped dry with a cloth: then put into other moulds for six weeks to dry and cure; after it becomes quite day and hard, it is put on shelves to cure, so that it may be eased up. The loss in drying out is very great, as the Government receives them half yearly in each year. The expence of making is said to be much greater than of the common kind of cheese, and the loss in drying it four times as much; but the certainty of their keeping has been fairly tested, and they are stated to keep equal to the best Holland cheese. Of the flat kind formerly used in the navy, more then one-half, it is said, proved to be unfit for use, and was thrown overboard.

The Dutch are said to be remarkably par-ticular as to the quantity and quality of the salt they use; and this is thought the principal cause of the sweet and delicious flavor of their butter, which, though well flavored, hardly tastes of the salt, or at all aerid. The average quantity of mulk from Holstein cows in Europe

and fifty pounds of cheese per annum, to each cow, is a fair product.

A great yield of butter and cheese is mentioned in a late agricultural journal as having been obtained in Oncida county. From twenty cows obtained in Oneida county. From twenty cows (commencing 15th of April, and ending the 1st of December) were made ten thousand pounds of cheese and one housand pounds of butter— being an average of five hundred pounds of cheese and fifty pounds of butter from each cow. were fed on whey from the dairy and two quarts of oatmeal per day.

PRESERVATION OF CORN FROM FROST.

Mrs. S. N. Hawes, of Shoreham, Vt., relater a remarkable case of the exemption of a piece of coin from frost, which be thinks is to be auributed to the plentiful use of long born-yard manure, in connexion with the stalks of a crop of corn which had grown on the ground the year before—the whole having been plowed into the

soil. He says; - "I plowed deep, strowing the old crop of stalks in the furrows and covering the whole entire. had a rank and extra growth of a large kind, which required a longer time to mature; and some of the last days of August or first of September, the earliest cars had commenced hardening, when we had one of the severest frosts I ever witneseed at that season of the year. I had much anxiety respecting my coin ctop, which I visited early in the morning; but the cracking of the frozen grass at every footstep, prepared my mind to behold it in ruins. Yet determined to know the worst, I pressed on, mounted the feace, which surrounded it, and to my sarprise, not a particle of frost was visible upon it! I looked around upon every side; all bore a wintry aspect. I looked around again upon the crop before me; it bors the appearance The bone-dust manure used on certain pastures in England, in which the soil is not adapted to this kind of manure, is said to have caused the was glad to return the force, determined to pass to this kind of manure, is said to have caused the was glad to return the force of the control of th was glad to retteat, and before I could effect it, was completely drenched I again remounted the fence where I could take a view of every side; it

was alike surrounded by a heavy frost." "As I stood pondering upon the apparent phenomenon, the fact flashed upon my mind, that the process of decomposition from the extra quantity of long manure, particularly the old crop of stalks, was still going on to that degree that the heat completely counteracted the action of the frest. Near the middle of the day (which was extremely warm and clear,) I travelled a mile in length, visiting every field on the same level with my own, and all, without distinction, were entirely destroyed. Mine remained uninjured, and yielded an abundant crop of remarkable sound, ripe corn."-Albany Cultivator.

FARMING CAPITAL.

From a communication by Mr. L. Durand, we make the following extracts:

" I think it correct to say, that a liberal expenditure of capital in farming, will ultimately pay better than when laid out in any other business: The difference between capital laid out in farming, and that laid out in manufacturing, is, that all which is expended in the latter beyond the actual profits of the goods manufactured, is a dead loss, while that which is laid out on the farm, under good management, causes it to improve and increase in value from year to year. In manufacturing, the interest on the capital may be received within six months or a year. In farming, it may not bo so, but it will be sure to give its return in a series of years. Another item which has been much neglected by farmers, is that of purchasing good implements to carry on their farming operations. In this country, where labor is high, a farmer should obtain as many labor-saving imple-Although ments as can be used to advantage, these implements may cost more at first than com-