For a few weeks the Farmer's Club For a few weeks the Farmer's Club has devoted considerable time to the discussion of butter making, and much difference of opinion was elicited in regard to the proper temperature for churning butter.

It has long been known that the churning of butter is simply a mechanical operation, working no chemical change in the constituents of the cream. The butter exists in the milk forming 4 1-2 to 5 1-2 per cent. of

forming 4 1-2 to 5 1-2 per cent. of its weight, but each little globule is enclosed in an exceedingly deli-cate membrane, which prevents the several globules from adhering together. By the process of churn-ing these membranes are worn or broken, thus allowing the several globules to come together in a single mass. At a temperature below about 60 degrees this union will not take 60 degrees this union will not take place, while at a few degrees higher temperature the casein of the milk will mingle with the butter, giving the butter a white color and the flavor of cheese. The best butter is obtained at the lowest temperature at which the butter will come, and this is variously stated at from 55 to 65 degrees. The difference of opinion may result from dif-ference in the samples of milk tried by different observers, or it may be due to the fact that in some cases the temperature was observed before the churning commenced, and then the temperature was raised several the temperature was raised several degrees by churning. It was stated in a recent number of the Mechanic's Magazine, that Mr. Rennie raised the temperature of water by simply churning it, to the boiling point.—While engaged in experimenting on the evolution of heat by the agitation of water, he put ten pounds of water into a churn which revolved at the rate of 232 variantians are minerally and the rate of 232 variantians are minerally as a simple control of 232 variantians are minerally as a simple control of 232 variantians are minerally as a simple control of 232 variantians are minerally as a simple control of 232 variantians are minerally as a simple control of 232 variantians are minerally as a simple control of 232 variantians are minerally as a simple control of the co the rate of 232 revolutions per min-ute; the temperature of the water rose to the boiling point, and an egg was boiled hard in it in six minutes.

If the farmers throughout the ountry would buy the thermometers for the purpose, and would always have their cream at 60 to 66 temperature when they churn it, the average quality of our butter would be very greatly improved, and an immense amount of labor in churning would be saved. Thermometers with out cases are most suitable for measuring the temperature of liquids, as they may be easily cleaned after im mersion .- Scientific American.

Turnips--Purple Tops.

From the first of July to the first of August, turnips may be put in. I prefer Purple Tops. They may succeed other early crops, as onions, peas, green corn, early potatoes, &c. Superphosphate of lime will be found an excellent substitute for barn ma-nure in the cultivation of most turnure in the cultivation of most turnips, not excepting even the ruta baga. In putting in this crop, the sowing should immediately succeed the harrowing, and be completed while the soil is moist and fresh, to insure the germination of the seed. Drilling is preferable to broadcasting, as it enables the operator to adopt a more thorough system of after culmore thorough system of after cul-ture, and to keep the soil in a condi-tion the most favorable to the rapid and healthy development of the plants. Any light land will prove congenial to this crop. Bone dust is an excellent stimulant, and posseses the advantage of being cheap as well as efficient. These turnips con-stitute a most excellent feed for cows and young cattle, and when rasped and mixed with chaffed hay, hau'm. and mixed with changed hay, hau'm, cornstalks or straw, enable the feeder to effect a very important saving in the expense of them through the winter. Boiled and mixed with corn or cob meal, they also furnish a most healthy and invigorating aliment for store hogs. Sheep, likewise, are very fond of them. When fed to these animals they should be cut fine and fed with a little salt.

I have known excellent crops of

turnips raised among Indian corn, the seed being sown after or just before the last dressing. The hoe will cover the seed sufficiently deep, and some seed sufficiently deep, and some seed sufficiently deep, and some seed sufficiently deep. as evenness of dissemination is not of essential importance, its action will supercede the necessity of using the rake. Soaking the seed for 24 hours before committing it to the soil, in house lye, or urine from the stables, and rolling it in a mixture composed of equal parts, of flour, of brimstone, plaster of Paris and pulverized charcoal, will be found not only greatly to facilitate the process of germination, but tend powerfully to protect the same from the ravages of the fly, and other alligorious as evenness of dissemination is not to protect the same from the ravages of the fly, and other alligorious depredators which too often prey upon the plants. An occasional dressing of the plants after they are fully developed, with the same mixture will be found highly salutary, and secure a rapid and healthy development. Poudrette and guana have also been used with excellent success in the cultivation of the turnin, but in the cultivation of the turnip, but an old pasture land, recently broken up, no manure is necessary, except a slight dressing of gypsum or wood ashes.—Germantown Telegraph.

-The Detroit Tribune publishes returns of the crops from many portions of Michigan The exhibit is generally favorable.

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Laws on hand a number of good Farms, of various sizes for sale, on such terms as will suit purchasers. Terenors withing to dispose of their Real Estate, will represent the setate of the setate butter of the setate of the s Office with Juo. M. Thompson, Att'y at Law, Butler, Ps JAMES T. M. JUNKIN, eb14, '60tf.] Real Estate and Insurance Assay

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Is a liquid or wash—used to destroy, and also as a preventative for Red-Bugs, &c, COSTAR'S" ELECTRIC POWDER FOR INSECTS is for Moths, Mosquitoes, Fleas, Bed-bugs. ARS's Entrangment of the Art State of Plants, Fusia, Hed-bugs, a fir Mohs, Mosquiloes, Fleas, Hed-bugs, nesets on Plants, Fusia, Animals, &c. nesets on Plants, Fusia, Animals, &c. nesets on Plants, and Section of the Plants of the Art Costal of the Plants of the Art State of th

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1866. FARMERS AND HOUSEKEEPERS, should recoller that hundreds of dollars' worth of Grain, Provisions can annually destroyed by Rats, like, Ants, and oth insects and vermin—all of which can be preyented the wood of the control of "Costar's". Rat, Rosch, Ant c, Exterminator, bought and used freely Sed "Costar's advertisement above.

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April 18, 1869

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LADIES & GENTS' SLIPPERS. MISSES' BOOTS, SHOES, AND

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