kding a little sulphate of ammonia to a mixtre in water of oxalate of ammonia and of freship precipitated phosphate of lime, mutual deemposition of the last two salts took place in a ka hours. The sulphate of ammonia renders the phosphate of lime somewhat soluble, and thus promotes its decomposition by the oxalate dammonia.

The action of guano is therefore two-fold; depending, in the first place, on its soluble ringen compounds; and in the second, on its while phosphates. In this last respect its exist is similar to that of a superphosphate.

The foregoing decomposition in guano depends evidently to a greater or less extent on the steather. Continued moderate moist weather. Continued moderate moist weather promotes the conversion of the insoluble phosphoric acid that a soluble form, whilst heavy falls of rain that it, by washing out the oxalate of amendia, theree, from this dependence on time and moisture, we are not always certain of this name in the soil.

I have discovered a very simple method of adering the action of guano constant in conzion with the conversion of the phosphoric did into a soluble form. It consists in moisting it a day or two before its application with fille water, to which a small quantity of oil of friol has been added, so as to render it discitly acid. Under these circumstances decomosition takes place rapidly, and is completed a few hours. The whole of the phosphoric d, corresponding to the quantity of oxalic present, is separated from the lime, and addred soluble by union with ammonia; and evalic acid disappears entirely as an insolute oxalic acid disappears entirely as an insolute oxalic acid disappears

Ism very auxious that acriculturists may be deed to make comparative experiments with who alone, and after being moistened with alesalphuric acid.

I am, my dear Blyth,
Yours very truly,
JUSTUS VON LIEBIG.

Dr. Blyth, Queen's College, Cork.

horticultural.

The Egg Piant.—(Solanum Esculeutum.) is regetable has not yet attained the popular-jit deserves. It is quite extensively grown by ket gardeners, near citics, but we have selmeen it on the farmer's table. Some have is jet learned to like it, more's the pity, for eaccustomed to the taste, finds it, if well cook-almost equivalent to both meat and vegeta. The plant is of African origin, and of too der breed to be grown in open ground from a seed at the far North; but by starting the hot-bed, or in pots in the house, six or

eight weeks before corn-planting time, it can be transplanted in June, and brought to maturity.

In that latitude there is a chance that plants may be grown to bear from seed, sown even as late as June 1st. We have generally found it most convenient to obtain a dozen or two plants from those who grow them tor sale.

The Egg Plant needs a very rich soil, with warm exposure. Fork into the ground devoted to it, a liberal supply of hoise manure, and set the young plants, three feet by two apart. Hoe trequently throughout the season, and hill up fre-

ually till the blossoms appear.

Under good treatment the fruit will grow to the rize of a large muskmelon. When it has attained the size of a goose egg, it is ready for cooking, and continues good until its deep purple color changes, and the seed turns brown.—They are cooked in various ways. Usually, slices one-fourth to one-half an inch thick are fried in butter or lard.—American Agriculturist.

The Dairy.

THE DEPTH FOR SETTING MILK.—A correspondent of the Homestead relates the following experiment:-"On the 5th of April we set two pans of milk, weighing forty-seven pounds two ounces, in two tin pails ten inches deep. next day we set the same quantity of milk from the same cows two inches deep in pans. These were placed on the same shelf with the first, and of course in the same temperature, which was near 50 degrees. In four days the first milk was sour and skimmed, yielding three pounds two ounces of cream, which, being allowed to stand one day, made one pound eight ounces of butter. The other milk, standing the same length of time, yielded four pounds eight ounces of cream, making two pounds one ounce of butter-a difference of nine ounces in favor of setting the milk shallow. This is a gain of 371 per cent. over the depth of ten inches."

From the Boston Cultivator.

Washington Butter.

Messrs. Editors:—In the Cultivator of May 11th, I noticed an article on washing butter. It is true that water is injurious to butter that is to be kept any length of time; and I here briefly state my mode of preparing butter for winter. I wash it in sweet skim milk, then salt it and let it stand until sufficiently cool to work into lumps, then pack it. This has been my invariable rule, for more than thirty years, and I have never been troubled with rancid butter in the spring.

S. W.

TO KEEP BUTTER SWEET.—E. E. Smith contributes to the American Agriculturist the following directions for preserving butter in