ble accessions can be made to the compost heap or vard, than that obtained from the forest. In the cultivation of young fruit trees, this species of dressing is now greatly valued. From one to two years are required to prepare them for this purpose according to the particular use to which they are to be applied. Any kind of forest leaves will be found valuable for this pur-All that is necessary is to afford them time to decompose. The foliage of the alder. bass, poplar, willow and other similar trees, is more readily decomposed than that of the elm or oak; but they possess less consistence, and consequently tend less to the increase of the compost heap.

The fact is now generally well understood by practical agriculturists, that the aliment of vegetables, technically denominated Humus, is best produced from that class of substances from which plants derive their food. The process adopted for elaborating this important material is attained in a variety of ways; but the most direct method is by the application of substances of an animal or vegetable character in a state of active putrescence or decay. We of course, are speaking now of organic manures, and in the list of materials shall embrace leaves. in addition to their organic constituents, possess also matters of an inorganic character no less essential to plants in a growing state, than the former. Toillustrate this point somewhat more fully we present an analysis of leaves of the "Early Harvest Apple." The leaves were collected September 30, the tree bearing fruit:

Phosphate of peroxide of lime 4.875

1 noophace of peroates of time	71010
Phosphate of lime	1416
Phosphate of magnesia	trace.
Silica	
Phosphoric acid	5.359—76.775
Lime	36.398
Magnesia	0 075
Potash	13.179
Soila	11.616
Chloride of sodium	0.060
Salphuric acid	0.137
Carbonic acid	15.200
Organic matter	2 850
O.8 aut. 0 mario.	
	101.065

Temperature of the Earth Under Sod and Under Cultivated Surface.

PROPORTIONS.

Water

Dry

Calculated dry

-N. E. Farmer.

54.341

45.659

4.194

9.163

The writer was recently a listener to an animated discussion between two excellent gardeners. One insisted that the earth was drier and warmer

under sod than under loose earth. The other argued on the contrary. Each was sure the other was wrong, and each appealed to us "There is a Thermometer, we replied, "why dependent of you not go and try for yourselves?"

How strange it is that men will argue for year on the most simple questions, when but fiv minutes of actual experiment would often de cide the matter at once and torever! How tru it is that a large amount of misunderstanding often leading to the most disastrous issues, no only to individuals, but to whole communitie arises from imagination being mistaken for fac and hasty assumption misplacing cool perception In our schools most of what we are taught might come under the head of "what to remember: but how much better would it not be if the sr tem was "how to observe and consider?" W cannot here making these reflections, as, in or denartment of education-horticulture,-we fin this injudicious course of education opposin our progress at every step. But to the temp rature experiment.

It was mid-day on the 26th of August, ar the thermometer, in the shade, under a tree, s'

feet from the ground, was 92 degs.

The firstspot selected was in a very hot plac on a lawn, where the grass was kept mow pretty close by a scythe. A spit was dug up' a spade six inches deep, the thermometer is serted, and the sod placed on immediatel After a few minutes, the thermometer was four to mark 88 degs. Ten feet from this spot, the same full sunny exposure, was a flower-be kept clean by the hoe and rake. The therm meter was here inserted as before, and found be 96 degs.

A more exposed place was then chosen, or hill, where a boundary once divided a past from a cultivated piece of ground, used as nursery, on which three year-old apple to were growing. Four feet from the fence, int sod, the thermometer was again tried as befound the result was 80 degs. The same distant the cultivated lot, tried in the same way, gas degs.

It was evident from these two experimentried in the coolest and in the warmest specified in the temperature was uniform, and the resist, that on a hot summer's day, the earth, inches under surface in sod, was eight degreeoler than under a clean, loose surface.

It seems to us that this fact, if found to universally as it was in this particular instan ought to have an important bearing on the cussion of many important horticultural ations—such as whether orchards as a rule, better in grass or not, for instance—but it so our object here to enter into such questic We wish now merely to call attention to want of more observations and less opinio and to show the result of such an experimen a single instance.—Gardeners' Montaly.