

20.2 of non-digested vegetable remains and ashes.
69.8 of water.

100.0

The quantity of ashes in this case was six per cent. Their constitution, according to accurate analysis, was as follows: In one hundred parts—

Phosphate of lime.....	05
Carbonate of lime.....	18.70
Phosphate of magnesia.....	36.25
Sillicia acid.....	45.00

100.00

Urine from the horse contained, in one hundred parts—

Carbonate of lime.....	1.1
Carbonate of soda.....	0.9
Hippurate of soda.....	2.4
Hydrochlorate of potash.....	0.9
Urea	0.7
Water.....	94.0

100.0

It will be seen that both these articles contain carbonate of lime, a substance valuable to vegetation in many ways, and they are also replete with other highly energetic and valuable principles. In applying manure to the soil—whether animal or vegetable—we should endeavor, in the first place, to ascertain the character and condition of the latter, and also the habits, character and requirements of the crops intended to be grown upon it. Whether we turn in green crops, or feed them to animals, and apply only their excrements, this information is alike essential to success. By applying to a vegetable, manure which does not contain principles congenial to its nature, or which does not secure those advantages which we might derive if the manure were more appropriate to the plant which it is desired to produce. It is worthy of some study,

therefore, to act understandingly upon this point, and to furnish such aliment as will be taken and assimilated by the system, for the support of which it is intended. By enabling ourselves to do this, we shall obviate no inconsiderable expence and trouble, and ensure a better success.

MILK.

HOW MUCH FOR A POUND OF BUTTER.

—It has been stated very often that it takes an average of fourteen quarts of milk for a pound of butter, but this we have always thought pretty high, though willing to believe that the average was full twelve. A discussion upon this subject has lately arisen, and the evidence of Mr. Horsefall, in the Transactions of the New-York State Agricultural Society, is brought forward, and one writer says that he shows "beyond all dispute" that the average is fourteen quarts. The editor of the *Country Gentleman* comes to the same conclusion from the reports of various persons. The editor of the *Massachusetts Ploughman* believes that in that State ten quarts of milk is considered an average for a pound of butter; and he also states a fact that we fully believe, from the best evidence of our own senses, that the somewhat celebrated herd of cows, bred by Col. Jaques at Ten Hills farm, within a few minutes ride, and within sight of Boston State-House, known as "the cream-pots," averaged a pound of butter to four quarts of milk. We have often been assured by Col. J. that he has repeatedly made a pound of butter with his own hands from less than four—we think only three—quarts, drawn from the best butter cows of this remarkable herd, which were bred solely for the great butter-making quality of their milk. We have