umber of tons of each constituent in 100 f the manure, and the value is calculated . following manner :---

Tons	of organic matter at 10s. per ton,	£7
f.	soluble phosphates at £30 do.	
11	insoluble phosphates at £7 do.	105
44	sulphate of lime at £1 do	39
:	alkaline salts at £1 do	4
£#	ammonia at £60 per do	128

quently the value of one ton is £7 5s. An ze Peruvian guano calculated in the same or gives-

Tons of organic matter, at 10s. per ton £26 insoluble phosphates, at £7 do 161 phosphate of lime and the alkaline salts, at £30 per do.. 150 alkaline salts, at £1 per do... ammonia, at £60 per do.....1020

he rate of £13 13s. per ton. It appears, re, that, as compared with other manures, an guano is a cheap manure. It must be tood, however, that this system of valuares only an approximation to the price, estimating it exactly many other matters e taken into consideration, more esy in the case of manufactured manures. these the condition of the manure is of hest importance. A damp, ill-reduced must not be valued at the same rate as ally manufactured sample, which has been t into a high state of division, and the r must exercise his judgment in this mat-I diminish or add to the value to such an as he may consider right under the cirnces. In the same way the proper adstituents must be taken into account. or example, if there be two samples of osphate having the following composi-

	I.	II.
7	12.72.	.11.83
nic matter		
sphate of lime	10.77.	.21.30
valent to soluble phos-		
tes.	(16.82)	(33.44)
uble phosphates		
ate of lime	48.99.	$.54 \cdot 13$
ine salts	0.11.	. 2.23
	2.54.	. 4.10
	100.00	100.00

0.32.. 0.37 dues of these two manures be calculated g to the plan just laid down. No. 1 is orth £7 per ton, and No. 2 £11, but the value of the last is by no means so cause it is found that the conversion of

brious that the percentages must represent is not attended with commensurate advantage in a manurial point of view, but that the best results are obtained when a reasonable proportion is left insoluble. In point of fact a manure like No. 2 is sold at from £8 to £8 10s., which may be considered as its proper value. and similar matters must be borne in mind when selecting a manure, and form an essential element in the estimation of their value, and it must be understood that the per centage valuation must always form the basis of any system used, and it is only modified by these secondary considerations. The necessity of properly apportioning to one another the different constituents of a manure is obviously attracting the attention of manufacturers, and the number of superphosphates made from phosphates alone has recently undergone a considerable diminution, while those of which ammonia forms a large constituent are on the increase. The sum of what I would impress upon this meeting is,-In the first place the most important matter for you to attend to in purchasing manure is to see Value of 100 tons.....£1365 that the seller supplies the farmer with an analysis of the manure, stating exactly what its composition is. The farmer, then, after examining this manure and calculating its value, according to the system which I have been explaining, should ascertain whether he receives value for his money, according to the analysis which was given him. He has next to ascertain whether the manure has the composition which the seller professes it has. Now, no reliance can be placed upon the uniformity of In the produce of various manufacturers great differences are observed, and the reason is very obvious and very simple. Manure is a cheap article which will not admit of that amount of expenditure in the shape of labour which insures uniformity. The manufacturer must use a rough-and-ready process, and the consequence is he cannot ensure an absolute and complete uniformity. Even if you take four or five specimens of the same manure by the same manufacturer you will find that it differs very much in its composition; but if you take a small quantity from different bags and mix them all together you get a general average which being the make of a good manufacturer, will turn out to be tolerably uniform. A sample, therefore, should always be selected from a few different bags, properly mixed together, and also the composition should be determined. Further, the farmer is to ascertain that the analysis he receives is properly made. This is a point which he cannot be expected to understand for himself. There are no external indications in the analysis which can tell him whether it is rightly or erroneously made. He can judge, however, to a certain extent, in this respect, that all careful chemists ought to have pretty nearly a uniform system; and if he find any mistake he has a right to suppose that the results cannot very much be depended upon. le of the phosphates into a soluble form | he attend to all these matters, and if, above all