

Inferior Guanos.

Number of Specimen,.....	21	22	23
Water,.....	19.74	11.29	11.22
Organic Matter and Salts of Ammonia,.....	46.17	46.45	34.68
Sand,.....	2.46	2.63	5.44
Earthy Phosphates,.....	31.59	26.71	21.09
Alkaline Salts,.....	.04	12.92	25.71
	100.00	100.00	100.00
Ammonia yielded by 100 parts,.....	11.89	10.41	8.12*

“The large quantity of alkaline salts in the third specimen is due to the presence of a quantity of gypsum and common salt with which the guano has been adulterated, while, at the same time, the proportion of earthy phosphates has been kept up probably by the mixture of a certain quantity of one of the cheaper varieties of guano.”

What must be thought now of guano containing 35 per cent. of sand, of those which contain but 4 to 10 per cent. of ammonia, or of that which contains three flour barrels of large pebble stones in a ton? Be they purposely adulterated, which I do not charge, be they impurities natural to it, the phase of the matter is not changed to the purchaser—he should receive an equivalent for his money, that equivalent is not to be found in sand or gravel stones. The above analyses from samples taken with the greatest care, show what we have a right to expect in No. 1 Peruvian guano. The average of all the analyses made by this gentleman show the average composition of undamaged Peruvian guano to be of

Ammonia	-	-	-	-	17.41	per cent.
Phosphate of Lime	-	-	-	-	24.12	“ “
Potash	-	-	-	-	3.50	“ “

In England this manure is offered for sale *guaranteed* to contain 16 per cent. of ammonia by the ton of 2240 lbs., at a less rate than it is sold here with no guarantee, for 2000 pounds, because protected (?) by an inspection which allows in some instances 6, 8, 10, 12, 14, 16 and 17 per cent. of ammonia alike to pass as No. 1.

PATAGONIAN GUANO.

This differs from Peruvian guano in the small quantity of ammonia and in the large quantity of phosphates which it contains. This difference is due to the difference in natural causes, existing where the two deposits are made.

On the coast of Peru rain very seldom falls, and the atmosphere

*The result of two analyses closely agreeing.