

Lime	-	-	-	-	-	-	-	33.75
Phosphoric acid,	-	-	-	-	-	-	-	42.83

in the hundred parts.

Equivalent of phosphoric acid in bone phosphate of lime—92.80.

Some stalagmites of a conical form and mammillated surface, were brought in at the same time from the same island. I examined a sample of one of these with the following result:

Water and organic matter,	-	-	-	-	-	-	-	15.73
Sand,	-	-	-	-	-	-	-	1.34
Lime,	-	-	-	-	-	-	-	36.45
Phosphate of iron,	-	-	-	-	-	-	-	2.68
“ “ magnesia,	-	-	-	-	-	-	-	6.22
Phosphoric acid, combined with lime,	-	-	-	-	-	-	-	24.96
Chlorine,	-	-	-	-	-	-	-	0.29
Sulphuric acid,	-	-	-	-	-	-	-	9.15
Not estimated,	-	-	-	-	-	-	-	3.18
								100.00

Of the ammoniated guanoes I have not made so many analysis as of the phosphatic. I am convinced, however, that the assumed uniformity of Peruvian guano, as imported here, does not rest upon a basis of fact. I have analyzed one sample which contained 18.53 per cent. of ammonia. The last sample I examined gave me only 11.40 per cent. of ammonia, and it certainly presented no appearance of having been damaged on the voyage.

CALIFORNIA GUANO.

There have been various articles brought in under this name. Usually they are very wet and dark colored, when of course their percentage of ammonia is low. The following table expresses the results of my analysis of the first cargo brought to this port, and probably represents the average composition of this material.

Moisture	. . . . .	15.63
Combined water, organic matter, and ammoniacal salts	. . . . .	51.04
(Containing ammonia 10.17.)		
Lime	. . . . .	6.11
Phosphoric acid	. . . . .	11.91
Sand and gravel	. . . . .	3.68
Not estimated	. . . . .	11.63
		100.00