

CALIFORNIA GUANO, (ELIDE ISLAND.)

In Prof. Johnson's book are recorded four analyses. Nos. 1 and 2 by himself, 3 by Dr. David Stewart, of Annapolis, and No. 4 by Dr. Deck, of New York.

	1.	2.	3.	4.
Water	27.34	27.60	18.90	22.64
Organic and volatile matter	39.20	38.75	43.30	43.53
Ammonia	10.00	10.06	9.39	11.46
Phosphoric acid (soluble)	5.07	5.31	} 11	
“ (insoluble)	6.66	6.25		
Sulphuric acid	4.94			
Lime	9.67	9.36		
Potash and a little soda	2.50		9.60	
Sand, etc.	2.50	2.52	4.70	3.24

Prof. Johnson, gives the results of analysis of eight samples of Sombrero guano, which he has recently performed. Four of these were taken from the large pieces as imported, and contained phosphoric acid equal to the following proportions of phosphate of lime, viz., 81.75 pr. ct., 79.88, 76.98, and 75.36 pr. ct., an average of 78.5 pr. ct. The remaining had been ground, and were on sale in Hartford and Norwich, Connecticut, and contained respectively, 78.50, 73.21, 68.59, and 68.20 pr. ct. of phosphate of lime, the average being 70.9 pr. ct. The difference, therefore, between the lumps and the ground article, is 8.4 pr. ct., which is attributed principally to the moisture absorbed by the ground article.

Among many chemists in Great Britain, who have paid much attention to guano as well as to its adulterations, I may mention Prof. Nesbit, of London, Doctor Cameron, of Dublin, and Prof. Anderson of Glasgow. It does not appear necessary, however, to quote the results of any of their numerous analysis, as a sufficient number have been stated to show the composition of the unadulterated guanoes accessible to the farmers of Maryland.

It appears that the adulteration of guanoes, especially the Peruvian, is very extensively practiced in Great Britain, and I regret to be obliged to believe that frauds of this kind, are also perpetrated in our own country.

In order to protect our farmers against such impositions, a system of inspection of guano was instituted in our state, and it has doubtless been a means of protection to a considerable extent. But yet, it appears from the testimony of many farmers, that they have had palmed upon them, sometimes, inferior or adulterated guano, with the inspectors mark upon the bags.—Gentlemen have informed me, that boatmen who have brought