Sechura, to find them we must dig the bed of the dried up torrents. It is at once to this absorption of an arenaceous soil, and to the frequency of the drizzling rain or guaruas, that the country comprehended between Tumbez and Chili owes its not being a desert throughout its whole extent.

It is exactly in this zone, where rain is sufficiently rare to be considered an event, between Payta and the Itio Loa, that the beds of ammonical guano are situated. Below, more to the north, as also more to the south of these extenne points, the guano, exposed to the tropical wirs, is generally deprived of ammonia and subble salts; an insoluable salt has resisted; this is phosphate of lime, the base and characteristic of earthy guano.

For guano to have been accumulated in sufficiently large quantities in the huaneras, it reprises a concurrence of circumstances favourable alike to its production and preservation—a dimate of unusual dryness, under which the birds have not to screen themselves from rain, in which terrestrial accidents offer crevasses and ents in which they can repose, lay, and hatch, beltered from the strong gales of the south; is short finding food such as they find in the vaters of the coast. In no part of the world is the more abundant. It sometimes happens being the might, as I have myself witnessed, but they come stranded alive upon the beach in prodigious numbers, without the sea being spitated, as if they wished to escape from the

prsuit of the enemy. One of the Spanish navigators who accommied the French academicians to the equator, lutonio de Ulloa, relates that the anchovy is in ach abundance on that coast, that there are no gures to express or represent the quantity. hsuffices to say that they serve for food to an mmense number of birds, which make war up-These hirds are commonly called guanos, among which are many albatrosses, a species of cormorant; but all are comprised ader the general name of guanos. Sometimes, arising on these isles, they form a cloud which dscures the sun. They take an hour and half a two hours in passing from one place to withour any perceptible dimmution of ter numbers. They extend themselves above besea, and occupy a large space, after which by begin their fishing in a very amusing maner; for, suspending themselves in the air, and billing round at a height proportioned to their ish immediately they perceive a fish they soar wher, head downwards, and then clasping their my to their bodies, they strike with so much bree, that we perceive the bubbling of the uler at a great distance. Afterwards they some their flight, while swallowing the fish. smetimes they remain a long time under water, stemerge far from the place where they had aged in, doubtless because the fish made an efinto escape, and they pursued it, disputing with

it the lightness in swimming. Thus we see them incessantly in the places frequented by them, some falling into the water, others rising from it, and as the number is very great, it is amusing to see their confusion. When they are satisfied they repose upon the waves; they go to rest with the sun, collect together, and all this numerous band seek their resting place. We have observed at Callao that the birds who visit the isles and islets situated to the north of that port go at early morn to fish on the southern coast, and return in the evening to the places from whence they came. When they cross the port, one can see neither the beginning nor the end of the flight.

To be continued in our next.

Good Cultivation v. Bad Cultivation, from a Chemical Point of View.

There is a difference between good and had management in farming, that is not so easily accounted for as practical agriculturists are sometimes led to imagine. This is no less true in the cultivation of land than in the rearing and fattening of cuttle. In either department of the farm it is common to attribute success to skill and capital, and the reverse to the contrary. But we all know that it is neither skill nor capital that makes corn and cattle grow. These are but means to certain ends, and when we come to inquire what those ends are, we often find ourselves beyond our depth in an unfathomable sea of troubles, doubts, and perplexities.

Let us confine our observations on the pre-A march fence runs up sent occasion to land. between two farms: geologically there is no difference between the soil and subsoil on the one side and the other, but there is a wide difference between their agricultural conditions as to fertility, and the amount of produce they respectively yield. In short, the one is "formed with skill and capital," and the other is not, and such is considered quite suffrient to account for all defferences. But to understand what "farmed with skill and capital" really means in every individual sense, and also the adverse management, the practical farmers require to see the land itself and the crops it yields. With them "seeing is believing;" for in the absence of ocular demonstration, such expressions have little more than the shado v of a meaning relative to what they are intended to convey. The land speaks for itself; so do the crops produced by it, and practical agriculturists are familiar with the language of both, although they may not be able to give a proper account of all that they see.

The difficulty experienced amongst practical men, it will thus be seen, is to give a scientific exposition of the facts of the case in the two systems of management, good and bad, under