EXPERIMENTS IN THE GUANO.

The substance called Guano having attracted much attention in England as a manure, as well as excited a considerable degree of interest amongst many microsent (bouring rows, effects similar to the last were cultivators of this island, I instituted a scrive of experiments at the Kirk Onchan nursery on its fertilizing properties.

curs as a deposit, of very considerable thek-tother vegetables, in competition with dung ness, on various small rocky islets on the The growth produced by the Guano has, in coast of Peru, ranging from the 12th to the 21st degree of south lautude. Its wigin has been a subject of fanciful speculation, but the complete comparative results. it is now certainly known to be the excrement of peculiar kinds of sea-towl; which, feeding on fish, and visiting these islands in I flocks dense enough to obscure the light of the sun, have accumulated their droppings to an extent that seems almost incredible the Peruvians for all kinds of crops.

It will not be necessary for me to detain you with a particular account of the constituents of Guano as ascertained by chemical analysis. According to the views of Luchig, and others almost equally celebrated in the agricultural department of chemistry, its son.—English paper. fertilizing effect is to be attributed to the nitrogen it contains, in the form of ammoniac and uric acid, (the latter giving use b, its slow decomposition to the former), and also, but secondarily, to the phosphate of line, which furnishes many pla its with matters-essential to their healthy growth. After this short preliminary detail, which it was thought might possibly interest some of the members of the society, I proceed to give an account of the experiments with Guano at the Kirk Onchan Nursery,

On a soil there of a light and poor nature, which would mest decidedly deserve the name (to use the language of the farmer) of a hungry soil, were growing and suil grow, two patterns of grass-one of Stick-ney's rye-grass, mixed with small quantities of holcus lanatu (woolly soft grass) and poa trivialis, the other of Italian rye-grass. A space was measured off from each of these patches, and on the 12th of May last both the spaces so measured off were top-dressed with Guano, with great care, at the exact rate of three cwt. per acre.

yard of the dressed and undressed spaces, taken as fairly as possible, was cut and carefully weighed in the presence of Lawrence Adamson, Esqr., of Douglas, who had taken great interest in the experiments. The following were the results:-

FIRST EXPERIMENT.

Stickney's rye.grass, and small quantities of Holous lanatus, and Poa trivialis.

Of one square yard, dressed with Guano at the above rate, the pro-

> SECOND EXPERIMENT. Italian ryc-grass.

Of ditto not dressed..... 43

The Guano was also applied at the same time (12th of May), and at the same rate, to a row of young elms, and on the 20th of June this row could be distinguished, even at a considerable distance, from the others, free and vigorous growth.

the benefit of the application.

On a row of strawberries, and the neigh-

The Guano has also been applied, after the above rate, to different kinds of potatoes,

In the mean time, I have this day produced to the society, specimens of turmps and mangel wurzel, as grown on each manure.

experiments on the grasses seem (t is most of land under grass for hay.

THOMAS LYLE.

Onchan Nursery, August, 1842.

The report was listened to with much at-

EDUCATE YOUR CHILDREN EARLY. -What is the object of education? To form the character. How is this to be done?—Not by lessons, but principally through the influence of example, and circumstances, and situation. How soon is the child exposed to these influences? From the moment it opens its eyes and feels the pressure of its mother's bosom-trom that time it becomes capable of noticing what passes around it, and knowing the difference of one thing from another. So powerful are the gradual and unnoticed influences of these early months, that the infant, if indulged or humoured, may grow into a petty tyrant at ten months old, and tottle about in two years, a selfish, discontented, irritable thing, that every one but the mother turns from in disgust. During this period, every human being is making its first observations, and acquiring its first experience; passes his early judgments, forms opinions, acquires habits. They may be ingrained into their characters for life. Some right and some On the 20th of June following, one square wrong notions may take with firm hold, and some impressions, good or bad, may sink so deep as to be with scarcely any force oradi-cated. There is no doubt that many of these incurable crookednesses which we air bute to nature, would be found, if they could be traced, to have originated in the early circumstances of life; just as a deformed or stunted tree, not from any natural perversity of seed, from which it sprung, but from the circumstances of the soil and situation where it grew.—Journal of Education.

EARLY FORMATION OF GOOD HABITS. If a child is neglected till six years of age, no subsequent education can recover it.-If to this age it is brought up in ignorance and dissipation, in all the baseness of brutal habits, in that vacancy of mind which such habits create, it is in vain to try to reclaim it by teaching reading and writing. You may teach it what you choose afterwards, but if you have not prevented the formation a row of young elms, and on the 20th of June this row could be distinguished, even children under the age of six years, learning same description. They are apparently of twenty-five years growth, and it does not by its deep and healthy green, and more free and vigorous growth.

The Gurne was also applied to a row of Reading.—Of all the amusements that brokes with projectly similar cillets, the can possibly be imagined for a hard-working neighbouring rows decidedly partaking of man after his daily toil, or in its intervals, Reading-Of all the amusoments that there is nothing like reading an interesting newspaper or book. It calls for no bodily exerting, of which he has already had enough, or perhaps too much. It relieves his home of its dullness and sameness. It transports hun into a livelier and gayer, and more diversified and interesting scene; and Guano, it may be as well to premise, oc- to Swedish turmps, to Mangel Wurzel, and while he empty humselt there, he may forget? the evils of the present moment fully as much as it he were ever so drunk, with the all these cases, been exceedingly healthy great advantage of finding himself the next and vigorous, but it is yet too early to give day with the money in his pocket, or at least day with the money in his pocket, or at least laid out in real necessaries-and without the drunkard's misery of mind and body. Nay, it accompanies him to his next day's work; and it what he has been reading be any thing above the idlest and lightest, gives The extraordinary consequences of the him something to this every day occuthe accumulations attaining, it is said, the respectfully submitted to the society to pation—something he can enjoy while ab-thickness, in some places, or 300 yards— leave little doubt of the excellence of the sent, and look forward with pleasure to. If Vast quantities of this manure are used by Guane, as a top-dressing for the general run pation-something he can enjoy while abstand me instead under every variety of circumstances, and be a source of happiness and cheerfulness to me through life, and a shield against its ills, however things might. go amiss, and the world frown upon me. it . would be a taste for reading. Sir J. Herschel.

> SMITHFIELD ON A MARKET MORNING. There is much to see and something, it may be, to smell, in Smithfield on a market morning. Its penned thousands of Leicesters, South Downs, and Merinos-its countless. thousands of fatted swine-its multitudes of bleating limbs, pretty dears, so soon to be swallowed with mint-sauce, salad, and the usual c'ecteras-its streets of living oxen, whose broad backs form a level leathery fleor, over which you often see adventurous drovers, stick in hand, take their desperato way. Corpulent graziers, with leathern pocket-book crammed with Bank of England notes; enterprising knackers, wholesale. dealers in that favourite article of food-horse-flesh, subsequently retailed to the heges in "a la mode" beef, mutton pies, sausages, and a variety of other rancy costunes; lynx-cycd salesmen, who have but to glance at a heast to know how many stond he weighs, offal inclusive; journeymen, butchers looking for a job; policemen on. the cent for a roving pickpocket; chaw-bacons in smock frocks, munching bread and cheese, or gazing listlessly around from the secure emmence of a waggon, load, of hay; shepherds and drovers from all quarters of the agricultural world, and you have a morning at Similhield. — The World of London, in Blackwood.

EXTRAORDINARY ROOT OF BARLEY. -A single root of Barley was exhibited at the meeting of the North Suffolk and South Norfolk Agricultural Association on Wednesday last, which consisted of 122 distinct ears. This root was the produce of one grain of barley Half a perch was planted in single. grains on an acie of land in rows four feer and half apart, and twelve inches distant in the rows, and produced forty-four bushels.

A great natural curiosity was also exhibited, being a small branch of a tree, the leaves on one half of which are horn-beam; and on the other American oak. There are three of these trees now growing near each