The following observations on the use of gypsum we copy from "Foote's Prize Essay" on Manures :-

1. It has been observed that plaster acts with increased efficiency when applied in connection with manures, or recently manured lands. The solution of the phenomenon, by our theory, is easy and satisfactory. The ammonia, which would otherwise escape from the decomposing manure into the atmosphere, is siezed upon by the plaster, detained in the soil, and wholly converted to the use of the

growing crop.
2. It has been observed that plaster acts with greater power on soils which have been recently stirred, than on those which have lain for a long time unmoved. Solution. By stirring the soil its porosity is increased; consequently By stirring the soil its perosity is increased; consequency, it absorbs more freely the dews that full upon it—from heap was made, and the lime and salt were laid in alwhich the plaster separates, and heards up in the soil, ternate beds, then mixed up together, and well covered the rich deposits of the atmosphere. In proof of the over with soil and sods. After three months this was etxent to which the atmosphere is charged with applied to the incadow in question; it was in a state ly depositing upon the surface of the earth, we will here resembling mortar, and was with difficulty spread; after introduce the substance of a statement made to the Amer-

land, situated on one side of a lane, and on a declivity, riantly, and the crop was the worst I ever had—in were broken up." About the same time, the propriotor some parts not worth cutting.—Correspondent Gard. of a field on the opposite side of the lane, and above the Chron. land of Mr. T., commenced gardening on a large scale, and formed an 'immense bed' of compost in the lane. This heap was made up of animal and vegetable matters, and from receiving constant additions, is continually undergoing f. rmentation, and the gases and vapours emana-ting from it are always perceptible. Four years ago Mr. become so fertile as to induce him to dispense with the use of manure; he has not since used it, and is now 'fully persuaded that its fertility is owing to certain vapours ari-

(p. 87), "Water is absolutely necessary to effect the deit happens that, the influence of gypsum is not observeable on vines, may be effectually prevented by sifting on dry fields and meadows.' To which it may be added, charcoal dust over the plants. There is something in that, but a small quantity of putrescent matter existing this very offensive to the bug.—American Farmer. in such cases, the exhalations are inconsiderable; and what is deposited from the atmosphere by the dews cannot be absorbed by the soil, inconsequence of its compact, impenetrable surface. On old, and even dry pasture lands, the effect of plaster is much greater, there being ever present on their surface a portion of manure to serve as a basis for

its action.

4. It has been universally observed, that the most striking effect of plaster is on the clover crop. "Red clover contains double the quantity of nitrogen that common hay does." Gray, p. 158.

Guano.-Within a short time, experiments have been made in England with guano found in the Hebrides, and other Scottish islands, and also with the same subtish; but in the late English papers we notice the results of various analyses, from which it appears that Peruvian guano contains from 86 to 88 parts in 100 of available matter, and the African 76-or, compared one with the other, as 7 to 8. Comparing cost and value, when delivered in England, however, the African is said to be 23 per cent cheaper than the Peruvian. In England, grano is estimated five times stronger than night-soil, four times stronger than dove-

ported this high estimate of its value. Attention is now being directed to the islands in the gulf of St. Lawrence, the coasts of Labrador and Newfoundland. &c., for the substance.-Albany Cultivator.

AGRICULTURAL COLLEGE .- Measures are to be taken for the immediate establishment of the agricultural College in Wiltshire, for which purpose a public meeting of the friends and supporters of the proposed plan has been called for the 22d inst. Earl Bathurst has consented to preside.

LIME AND SALT.—I tried this mixture on two acres of old grass land, having mixed them in the propor-tions recommended by Mr. Cuthbert Johnson. A heap was made, and the lime and salt were laid in alit became dry, it was beat to pieces, and spread and brush harrowed. In many parts of the field, the grass ican editor of Liebig, by Mr. E Tufts, of Charlestown.

"Eight years since, about three quarters of an acre of appeared as if it was scorched. It did not grow luxu-

ANALYSIS OF Soils.—the following is a method of analysing soils for ordinary agricultural purposes:-Weigh a convenient quantity of the earth to be analysed say 1000 grains, dried in the open air; dry the T. observed, that, in some inexplicable way, his land had same before a fire on paper, so as not to scorch the paper; re-weigh, and the difference will be the organic matter. Pour a convenient quantity of muriatic acid on the remainder; stir, and when settled, pour it sing from the heap, and then descending on his land. None off, and add oxalate of ammonia: the precipitate will of the soluble matters of the heap are carried to Mr. T.'s be lime. Mix the remainder with water, and stir it the soluble matters of the heap are carried to hit. Its be lime. Mix the remainder with water, and st well; when a little settled, pour off the turbid mixt and the suspended contents are argillaceous, and the suspended contents are argillaceous, and the suspended contents are argillaceous, and deposite siliceous.—Correspondent Gard. Chron. well; when a little settled, pour off the turbid mixture, and the suspended contents are argillaceous, and the

composition of the gypsum, and also to assist in the absorption of the sulphate of ammonia by the plants; hence the yellow striped bug that attacks cucumber and me-CUCUMBER AND MELON BUGS.—The ravages of

LOVE OF FLOWERS.—A love of flowers is one of the earliest of our tastes, and certainly one of the most innocent. The cultivation of flowers, while it forms an elegant amusement, is a most healthy and invigorating pursuit. Unlike hunting, fishing, shooting, or similar rural amusements, it inflicts no suffering on any of the animal creation, and merely aids nature in her efforts to make the world beautiful to the eye, as the. fruits are pleasant to the taste. The flower garden, while it agreeably occupies the time, does not impose a heavy tax upon the pocket, and there are very few flowers but what may be cultivated to as great perfection in the garden of the peasant as of the peer. It stance found on the coast of Africa. We have seen no is a taste, too, which is well adapted to the female statement showing the comparative value of the Scot-character, and affords much rational amusement to the recluse.-Manual of Gardening.

CHARCOAL AND GUANO .- Mr. Teschemacher, in "Hovey's Horticultural Magazine," says, "By mixing one-fortieth part of charcoal with a compost made of two parts loam and one of old manure, and carefully and intimately mixing the whole, and then applying it to greenhouse plants in the pot, and watering with water in which guano had been mixed, at the rate of cote manure, "a deadly enemy to the wire-worm and one ounce to ten gallons, this treatment produced the fly, and a preventive of mildew and red rust." We most astonishing effects, not only in the growth but doubt whether experiments in this country have sup-