edy. From one-and-a-half to three cwts. acreis the common quantity applied. Where of the common or perrennial ryegrass large-redominates in young layers, nothing will up such a heavy crop as nitrate of sodabet time for its application is just when tation has made a decided start.

n the other hand, when the red clover plants more plentiful, Peruvian guano, which is soluble, and comes more slowly into action, wally considered better suited than nitrates, und dressings of guano often strengthen the er plants and make them keep a vigorous of the land. Guano, too, should be applied er in spring than nitrates in all cases, where clovers abound.

ad clover is a much slower growing plant either Italian or common rye-grass. It does therefore, make so good a return for applinos of nitrogenous manures. And, besides, e'grown as a mixed crop, the true grasses times rise so rapidly with liberal manurings they often overtop and weaken by their their slower growing rivals. Were clovers nalone they would be far more grateful itrogenous manures, but, being usually mixith ryegrass, they are not placed upon an I footing. This is all the more apparent nitrates are used for a well mixed layer of seeds. In this case a full and well mixed of hav may be drawn up, but the clover are far more exhausted and less fitted for ueing an aftermath than when guano is ied.

ought always to be kept in mind that there special unfitness in clover for being bene-1 by dressings of nitrogenous manures. er and ryegrass, as usually grown, have In different capabilities for digesting or assiting a certain amount of nitrogen in a given . The difference in this respect between red er and Italian ryegrass, which may be taken epresentatives of two different families of a is not nearly so great as betwixt these and other individuals of their respective lies or orders. It is only a few of the many reds of grasses that respond to liberal treatt and are therefore fit objects for cultiva-If a rich old lawn is dressed richly with genous manures, a few species grow up beall the others, and keep them out of view. id as in the animal so in the vegetable dom, each species has a limit or capacity of We have th which cannot be exceeded. ceased to look for the plants which will without manure, but, instead, for those h in some measure act the part of gluttons, at the same time give a good account of thay are supplied with. No plant can, -ps rival Italian ryegrass in this respect, for. supplied with moisture and manure, it s almost uninterruptedly throughoutspring, er and autumn.—Scottish Farmer.

The Earthworm-Its Use.

Reaumur calculated that the number of worms on the earth exceeds the grains of all kinds of corn used by man, and as, perhaps, there is in other animal so preyed upon without any diminution in numbers as the earthworm, the calculation may not be far wrong. Hedgehogs, frogs, and moles devour it; beetles pray upon it, and often cust their young on it—and but for the earthworm a large portion of the bird family would soon deteriorate or perish, for, with the of the finches, there is scarceexception ly a bird, from the robin to the wild-goose, but eats it, and many, during open weather, live . almost solely upon it. After a summer shower, the farm-yard ducks actually race against each other along the roadsides in search of it; and on wet days they each devour hundreds. river fish feed to a great extent upon it; and wherever the river beds are of a clayey substance. worms are more plentiful than in terra firma .-The river worms are darker in colour and flatter as a whole than the earthworms, but so little do they differ in appearance that a novice could not tell the land from the waterworms. worms in the water live under the embedded stones, and trout are generally on the watch to gobble them whenever they leave their abode; they even move and turn over the stones in search of worms and the larvæ of water flies.-When a flood comes, the stones are generally displaced in great numbers, and at such a time (in a river such as the Tweed, for instance) the worms must be dislodged and carried along the river bottom in tens of thousands; and it is fir such food, too, that ducks are constantly gumping among river shallows; for, if watched, it will be seen that they insert their bills below, or move, mostly all the likely stones they We have frequently turned up worms at a depth of about one foot in the rivers.

But though the worm yields a considerable amount of food to the birds and fish that grace the dinner table, it is much more beneficial to man as a fertilizer of the land. Subsisting on the earth through which it burrows, with an occasional meal from a decaying tuber or leaf, its peculations from the husbandman are of the smallest nature; whereas it lightens "the earth's surface" by its barrowings, and thereby sids the spreading of the roots of all cereals and bulbs; and the burrows also carry down water after heavy rains, that, but for them, would often gather in surface pools, and thereby injure the crops; and they also admit the air to the soil to a depth by which by natural means it could not reach. The earth ejected by them also tends to the improving of the soil; and instances are known whereby these droppings or "worm casts" caused in a few years, a considerable increase to the depth as well as the quality of the soil. Mr. Darwin, the naturalist, gives