could long remain healthy so. It is an error to suppose, as many do, that the roots of plants feed only on the soil. They feed also on the gases floating in the atmosphere, through the decomposition of organic beings. More especially do they feed on ammonia, from which they probably derive the major part of their nitrogen. mechanical force of the descending rain brings these substances to the surface, where they are left to be absorbed by the roots in the immediate vicinity. Roots which are far beneath the surface can so receive no benefit from these revivifying circumstances.

It follows, from these principles, that the nearer the roots of plants are to the surface of the earth, consistently with their real known aversion to light, the nearer will they be to those conditions which nature's immutable laws declare to be most conducive to a perfect state of health. Should the transplanted tree be likely to suffer from drouth, a good mulching will effectually prevent that, besides be of good service in affording nutriment.

[We can bear our testimony to the accuracy of Mr. [We can bear our testimony to the accuracy of Mr. ed the requisite supply of food, if nature had not guided Mechan's statements, as to the disadvantages of deep it in the construction of a remarkable snare, which enplanting. We have seen hundreds of acres of ash plantations in England, resting on a wet clay subsoil, yielding no produce after a lapse of sixteen or twenty years.

It is the same with fruit trees, under similar circumstances. Deep planting may succeed in rich and dry soils, but on such as are cold and wet success is physically impossible. Indeed, we very much question the type many and in the steep, within reach of its captor. The way in which the ant-lion digs this pit is extremediately impossible.

FRUIT TREES BY THE ROAD SIDE .- The practice o setting out fruit trees by the road-side cannot be too highly recommended. In many parts of Europe this practice is general, and the fatigued traveller acknowledges the well-timed hospitality thus afforded him. The wayfarers would only be what common hospitality would freely grant; and in Germany every third tree, by custom, may be taboocd, (the owner of the adjoining hy custom, may be taboocd, (the owner of the adjoining farm ties a piece of rag to one of the lower limbs of the tree.) and no traveller will touch it. Travellers inform tuent as that no reward will tempt a German stage-driver to the piece, it is usually about thirty inches in diameter by the theorem the tree that no reward will tempt a German stage-driver to have been altered by any slip, as almost always happens two out of three thus being left for their way if the tree. two out of three thus being left for their use, if desired, renders the selected tree free from the chance of being used. The amount of fertilizing materials continually wasted upon roads would be rendered available by such a practice, and nothing but extreme selfishness will necessity of keeping the grass of pastures from running prevent the use of these materials for public benefit. Many of the larger sorts of fruit trees are highly ornamental and afford fine shade, while the use of fruit trees for shade, like the display of costly mansions. only excite the poor to envy, without adding materially to their comfort or health.—Working Furmer.

IMPROVEMENT OF APPLES FROM THE CRAB APPLE. -It has been stated by some writers, and generally believed, that our immense variety of apples all originated from the crab apple. A paragraph in the last American Farmer, quoted from the Alabama Planter, years bestowed considerable attention upon the apple, lutility.

and among the many fine sorts he now cultivates, has obtained, by successive plantings of the seed of the native crab apple, one of the best fall and winter apples in the

From this fact we may learn the good results of experimenting with fruits in order to improve their qualities. It a man could live long enough to pursue these researches, he would find astonishing results from his experiments. Van Meres, Knight, and some others, were successful during their day, in improving and procuring new fruits from poor and apparently worthless parents .- Maine Farmer.

INSTINCT OF THE ANT-LION .- Among the instincts which direct animals in the acquirement of their food, few are more remarkable than those possessed by the larva of the ant-lion, a small insect allied to the dragon-fly. This animal is destined to feed upon ants and other small insects, whose juices it sucks: but it moves slowly, and with difficulty, so that it could scarcely have obtaintraps the prey it could not require by pursuit. It digs in fine sand a little timeral-shaped pit, and conceals itself at the bottom of this until an insects falls over its edge; solly impossible. Indeed, we very much question the ly curious. After having examined the spot which he propriety of planting in the latter at all, without first purposes to establish itself, it traces a circle of the dieffecting a thorough artificial drainage, and this should mensions of the mouth of its pit, then placing itself within its line, and making use of one of its legs as a spade, digsout a quanity of sand, which it heaps upon its head, and then, by a sudden jerk, throws this sorme inches the propriety of planting in the latter at all, without its line, and making use of one of its legs as a spade, digsout a quanity of sand, which it heaps upon its head, and then, by a sudden jerk, throws this sorme inches beyond its circle. In this manner it digs a trench, which serves as a border of its excavation, moving backwards along the circle until it comes to the same point again; it then changes sides, and moves in the contrary direction, and so continues until its work is completed. If, in the course of its labors, it meets with a little stone, the presence of which would injure the perfection of its excuse is often made, that the fruit will be stolen, but if snare, it neglects it at first, but returns to it after finishthe practice were general, the amount of fruit taken by ing the rest of its work, and uses all its efforts to get it upon its back, and carry it out of its excavation; but if it cannot succeed in this, it abandons the work, and

Mowing Pasturs .- We have before spoken of the up to seed and dying on the ground. As grass grows with more rapidity in the earlier part of the season than at a later period. it is difficult to keep properly fed down, without putting on more stock than can be kept on the land after the flush of feed is over; and yet, if the grass goes to seed and lies on the ground, the after feed will be less in quantity and of a poorer quality. The difficulty may be overcome by mowing the grass at the right time—before it has run to seed, at all events. This may be done on many pastures to good advantage, the hay obtained being of good quality for any kind of stock; and the pastures are left clean, start equally, and afford a good growth of fresh afterfeed. We have latery met corroborates this statement as follows:—"Our friend, with several farmers who have followed this practice James Magoffin, Esq. of St. Stephens, has for a series of for many year, and they agree with us in regard to its