

Agricultural Department.

DEEP CULTIVATION.
Mr. Mechi, the celebrated English farmer, says: "Twenty years of practical experience ought to be worth something to any man who has observation and reflection. In 1843 I named shallow plowing as one of the principal errors of British agriculture, and in 1883 I am more convinced than ever that my statement was true; but although I then acted on my own conviction, and broke up deeply the soil, I am sorry to be obliged to state, that in my opinion, formed from observation, four inches (solid) is still the average depth of the British agricultural crop. It is a pity that, if permitted, descend many feet."

Baron Liebig's last work "On the Natural Laws of Husbandry," has revealed to us many subtleties, and has made us aware of the fact that we cannot manure the sub-soil through the top, or cultivated soil. Deep cultivators can now understand why it is so profitable to mix the manure with the sub-soil, and both with the top soil—not to bring up all the manure to the surface, but to let it intermingle with the sub-soil, which can thus be placed in a position to benefit by and participate in the manure dressings. If you have any doubt of the Baron's theory, cut a deep section of your soil, and see immediately how the manure has descended to the sub-soil, and how the sub-soil has become so fertile and so productive. You will see immediately how the manure has descended to the sub-soil, and how the sub-soil has become so fertile and so productive.

We can now readily understand how it is that the Rev. Samuel Smith, of Lois Weldon, gets his rows of Swedes to shake hands by their leaves at five feet intervals. He plows back all his topsoil, and having this laid bare, he sows his Swedes in the furrows, and the furrows being filled with the sub-soil, the sub-soil is in the right place to furnish the plants with the manure they need. Gardeners understand this, but farmers as a general rule either know nothing of it, or do not think it profitable.

Never could understand on logical and reasonable grounds why a farmer should have more rice in his fields and another for his garden, except the slavery of long custom. No farmer would be content with the farming done in the garden for his garden, but in the latter he requires greater manure, produce, and is not that what he should require on his farm?

From sixteen to twenty years ago I broke up much of my land by six horses following in the track of the plow, and drawn by three horses, and in this way I could see the great contrast in part of a field where I had omitted to do this.

To-day I am following the two-horse plow with four horses attached to it, and it breaks up, lifts over, and intermixes with the topsoil and manure, and as it flows over you see the strong roots of old weeds on their hill-side, but condemned now to destruction.

I have profited on the physiological of my farming friends certain eminent muscular evidences of entire debility when I told them that my neighbor Dr. Dixon, Ravenhall, once pulled up a tree with a vertical cut three feet six inches in length, and the piece left by its breaking off. This was in a bank of earth, twenty feet deep that fell over loosely when excavated. A paved and polished sub-soil in stiff clays or other soils won't do. Let me tell you a little more about it. As water cannot wash manure to the roots the roots must go to every grain of soil they mean to have the manure. Consolidation is still the thing to prevent such a free working of the roots. Turn heavily, and cut in dry weather, and the soil will be so loose that it will leave its mark of poverty unmistakably. In fact I have not patience with on present system of shallow cultivation but believe that the great reformer will be the steam plow a few drainage of it.

The more I reflect upon the Lo Weston system the more I am impressed with admiration of the sagacity of its author.

He anticipated the philosopher's discovery and provided soil in the sub-soil, a condition of common soil, or soil, or that search the sub-soil for a completion of their growth.

The advantages of exposing the sullen, unacted, unaltered sub-soil to the influences of climate vicissitudes are too obvious to be denied.

Many other benefits, however, that those of the frost will result. Air, the oxygen, ammonia, carbonic acid, nothing. Let the agricultural mind, therefore, be of good cheer; the atmosphere is a force everywhere present; although his power may be like Shallow's "barren barren," he has at least this consolation, "merry, good air."

I remember throwing out the cutting of a new ditch in my Black Sandy field and absolutely barren soil of hard sand and gravel stones, bound together by phosphate of iron. For several years no vegetation grew upon it, until a length a few straggling plants appeared, and now, after a lapse of twenty years, it is well covered. This was evidently due to the action of the atmosphere on the ingredients of the soil.

MANAGEMENT OF MOWING MACHINE.

The season for making hay is at hand, and farmers are busily engaged in preparing for the securing of that important crop. The number of mowing machines sold, and that will be used in the season, exceeds that of any former year.

Several months ago, we earnestly advised those of our readers who needed these indispensable appendages to their farms, to secure them in time. Those who took our advice, have not only secured themselves comparatively independent of the scarcity and high price of farm help, but have saved handsomely in the purchase price, it having been largely advanced within the past few weeks.

The farmer who possesses a good mowing machine, a pair of good horses, and an endurance how to drive and keep it in order, may almost set the element of defiance. But there are many who purchase machines, who do not possess either the ability or the means to keep them in order, and to such, they are a hindrance rather than a help. A word to those who belong to this large class.

First, then, it is your interest to understand the nature and wants of the mowing machine, without this familiarity, you will become worse than useless. We know of machines in the hands of persons who are ignorant of the nature and wants of the mowing machine, and who are consequently using them as if they were simple tools, and not as if they were complex machinery.

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THE WAY OF LIFE.

A young man once picked up a sovereign in the street. Ever after he carried it about in his pocket, and he was very fond of it. One day he was walking along the street, and he saw a woman who was carrying a bundle on her back. He saw that she was carrying a bundle of old clothes, and he saw that she was carrying a bundle of old clothes.

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A MIGHTY SUCCESS.

When peace, with all its beneficent and salutary influences, smiles serenely upon the people, then nothing is heard of that plea of all tyrants since the world began, "military necessity." But if designing and ambitious men, influenced perhaps by foreign jealousy and a love of power, after an effort of years, succeed in disturbing the peace, and in bringing about a state of war, then the plea of "military necessity" is heard.

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DRY GOODS, &c.

Early the next morning the professor went to the pond, and whistled it all around, and finally waded in up to his waist, and threw his flies most skillfully, but never raised a fish. As the sun grew tolerably hot, he turned to his friend, who lay under a tree, and said, "I have a book and a seat, and a fishing tackle, and you may try your hand at it."

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Medical.

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