

Sames Heddon : "Much beeswax, in cakes, contains large quantities of pollen."

Prof. Cook : "No creature can be reared without nitrogenous food."

W. Z. H.

EDUCATED FARMERS.

I have just read in your paper of the 5th inst. a most interesting article on the above subject, at the end of which you kindly welcome us farmers to try our hand at letter writing, so I send you a few observations that have come under my notice. Education is of vital importance to us, not only in our every day work but in grasping those scientific discoveries made known to us through such papers as yours by our leading men. Perhaps, however, through our want of education, and sometime through other causes, it is very hard for some of us to reconcile the statements of such men with our actual experience; but if we make the best use of the offer you give us it will prove the best school and the best education we can have. Now the subject I wish to touch upon, and which is plain enough to most, especially the scientifically educated, is the composition of our green crops. We are told that they contain 80 or 90 per cent. of water—more or less according to the different crops—that the larger the roots the more water they contain. Now I am not going to contradict that, but confine myself to a few observations.

1. I had a field of clover, the first crop was safe in the stack, a portion of the second crop—a good one—was cut and carted to the stables, the rest was intended for winter use. When we had cut half for that purpose it came on so showery that we left off cutting, and did our best to save what we had cut; but we failed to get it fit for stacking, so ploughed it in. We ploughed the whole field and drilled it with wheat, the wheat on that portion where the clover was ploughed in green or uncut, was by far the best from the time it came up to the time of harvest. That portion where the clover was ploughed, which had been cut and withered, was but little better than that portion which had the clover carted away; and that made me think the 80 or 90 per cent. of water should have another name, and I called it juice. For I was at dinner when I was thinking the matter over, and I wondered how much water there was in the syrup of the plum pie I was enjoying, and I thought whether it was much or little—it was very good; and I saw the tart made with the largest plums off the same tree made the most syrup, and I liked it best.

2 I had a lot of beasts in my yard. After it was littered with straw every morning and night, we threw half a cart-load of swedes about, and I noticed they all looked out for the largest; and afterwards, when we commenced with mangolds, I noticed they did the same; and it was the same with the sheep, they picked out the largest first, and preferred the long red to the yellow globe. I have noticed that when we had good crops of swedes the sheep have done much better than when we had a poor crop, although they had the same quantity; and I have noticed that the ewes and lambs have done better in spring when we had crops of large roots—of mangolds. I might now ask several questions:—1. What difference, and if any how much, between the water contained in our green crop and the water we get from the pump? 2. Does a plentiful supply of manure, combined with a good season, lead to the formation of excess of water in our green crops? and (3) if so, in what proportions? *LOUGHBOROUGH.* (1)

(1) I am afraid to say it, but I must agree with Loughborough that we do not yet know all about our root-crops. A. R. J. F.

NON-OFFICIAL PART.

IN NEW QUARTERS.

Messrs. LORD & THOMAS, of Chicago, the well known and popular Advertising Agents are about to move into new quarters, which are so spacious, so elegant, and so original and novel in their appointments, that they deserve more than a passing notice.

The building, Nos. 45, 47 and 49 Randolph St., between State and Wabash Ave., is at once the most striking in appearance and the most elegant in Chicago; built of sandstone, it is 70 by 174 feet, practically fire proof, and lighted on four sides. Three large elevators and two spacious stairways, give abundant facilities for passengers and freight.

Messrs. LORD & THOMAS will occupy the entire third floor, giving them a superficial area of nearly 12,000 square feet. This beautifully lighted room is unbroken by partitions, save a private office in one corner, thus bringing the entire working force of about sixteen clerks into one spacious room, certainly the largest office of any advertising agency in the country, if not the largest business office of any kind on the continent.

The various departments are so arranged, that the work passes along with almost mechanical regularity.

While the entire appointments are elegant, the filing department is arranged on an entirely new principle, which amounts to an important invention. Heretofore Advertising Agents have filed their Newspapers in wooden pigeon holes, which not only excluded the light, but caught and retained the dust, and thus proved a nuisance. The new filing department of Messrs. LORD & THOMAS is made entirely of wire work; a separate compartment is made for each Newspaper, Magazine and Periodical in the U. S. and Canada, about 14,000 in all. The various sections are suspended from the ceiling, and hang clear of the floor, leaving a space under each one so that the entire floor can be swept.

Space will not permit us to describe this important improvement in detail. The principles upon which it is constructed will be covered by letters patent.

The National Wire and Iron Co., of Detroit, Michigan, have been awarded the contract of the work, and are rapidly pushing it forward to completion.

Our friends who wish to see a copy of our paper when in Chicago, can always find it on file at the Agency of Messrs. LORD & THOMAS.

"A cool soil is what oats delight in; and this grain may be put in on corn stubble without plowing by using the "ACME" Pulverizing Harrow, Clod Crusher & Leveler. Its use will enable the farmer to sow oats from ten days to two weeks earlier than if he waits until the soil is dry enough to plow, and ten days saved may easily double the crop of oats or spring wheat."

We take much pleasure in drawing the attention of our readers to Messrs. J. A. McMartin & Co's grinders which are their own invention and excel any of the kind made in the United States. They are said by competent judges to be the best in the market.

The farmer will find that thorough cultivation is manure, and that each of his teams earns \$10.00 each day they are thus employed." If this is true, how important it is that the farmer should use proper labor saving implements for the purpose of pulverizing the soil. See advertisement of the "ACME" Pulverizing Harrow, Clod Crusher & Leveler.