

as the value of different fertilizers vary so much with different soils that it would be well for them to make limited trials of different sorts before deciding what is best suited for their particular land. And also that in using fertilizers they must not expect much heavier crops than if they applied a large quantity of manure.

I am quite convinced that if our average farmer wants to raise paying crops he can no more do without the use of commercial fertilizers than he can afford to harvest his crops in the same way as his grandfather did a hundred years ago. I should like to hear what some of your readers have to say on this subject.—*Fairfields.*

Quebec, 14th March, 1887.

To A. R. JENNER FUST.

Dear Sir,—On p. 224 of Stewart's "feeding animals" he says, if he takes 65 lbs. clover ensilage and 60 lbs. corn ensilage, they will make a complete ration. Then, on the next page, he says that a ton of clover is worth 2 tons fodder corn. If this is so, why does he not take half the quantity of clover ensilage in making up the complete ration? I am about to put up a silo and I wish to ensile clover at the same time with corn, but clover ripens early—it was cut last year about 10th July—how would you advise me to proceed? The printers did not send me the Journal for Feb., March, and April, 1884, and I therefore missed your article on malt sprouts, I can get them for 15c p. bush. I am running short of straw and hay, and thought the sprouts mixed with cut straw and steeped would make a fair ration, will you say what proportions should be used. I shall have to purchase fodder later on, straw \$3.00 p. 100 bds., hay \$8.00 p. 100 bds.

I remain yours truly,

H.

Ans.—1. Stewart advises the proportions above named, because the clover, being extra rich in albuminoids, makes up for the extreme poverty therein of the corn. The clover contains 3.06% of albuminoids and the corn only 1.00%. I will give an article on this "nutritive ratio" in the next number. It seems to be a puzzle to many people.

2. Ensilage second cut clover with corn; unless you like to ensile and weight the clover first cut, and then uncover and add corn when ready.

3. Malt cummins are a very useful food, particularly to mix with corn or other starchy substances. According to the tables, they are worth \$1.33 per 100 lbs., and corn only \$1.11. Straw, cummins and corn might answer your purpose, but I do not think straw and cummins would do much for your cows: they do not care to eat much of the sprouts as they are generally gritty and dirty. Theoretically they are of far greater value than in practice—a good plan is to pour boiling water over them.

Dear Sir,—We have one silo in operation in this county now and I know of three others that are to be built in the spring (including my own). Would you kindly tell me: If I can cut at one time a sufficient quantity of hay to last my stock horses and cows for, say 3 or 4 weeks, without injuring the hay? Also, if I can feed my horses whole oats with the out hay, the hay to be dampened and the oats mixed in, or must I have the oats ground? I would like to have your answers to those two questions before I commence to build my silo or buy the cutter. My reason for wanting to cut so much hay at one time is that my horses and cows are in two separate buildings and the cutter I propose buying is too heavy to be continually moved about. I shall also cut all my straw for bedding so as to try and improve my manure. I used all my oat chaff in the cow stable this winter to absorb the urine and found it

answered well. I hope you will excuse my troubling you, but I feel if on e I get into the right groove it will be easy to go ahead. My farm, 25 acres, was very much run down when I bought it, and my one object at present is to make it pay.

Yours very truly,

X.

To A. R. Jenner Fust

Chaff can be cut to any amount, without suffering much if any loss, provided it be slightly sprinkled with salt and trodden firmly down in the bin. For bedding, the cut straw should be in 4 inch lengths.

A. R. J. F.

NON-OFFICIAL PART.

A FAIRFUL LEAP

into the abyss of poverty, over the precipice of shortsightedness is taken by thousands, who might become wealthy, if they availed themselves of their opportunities. Those who write to Hallett & Co., Portland, Maine, will be informed, free, how they can make from \$5 to \$25 a day and upwards. Some have made over \$50 in a day. You can do the work and live at home wherever you are located. Both sexes; all ages. All is new. You are started free. Capital not needed. Now is the time. Better not delay. Every worker can secure a snug little fortune.

A Fine Piano for Senator Mahone.

[From the Baltimore American.]

A number of prominent musical people of this city gathered in the warerooms of Messrs William Knabe & Co. yesterday morning to examine a piano made by the firm for Senator "Billy" Mahone, of Virginia, for his Washington residence. The instrument was specially designed and built for that gentleman, and is truly a magnificent specimen of the highest musical, as well as decorative, art. It is a full Concert Grand, the same in size and general outline as the famous Grand Messrs. Knabe & Co. furnished for the White House. The case is of rich and beautifully figured rosewood, decorated with inlaid work in white holly of unique and intricate design, carved out in the most artistic manner. Each panel has a groupe of different musical instruments, the whole surrounded by borders of fine marquetry work in leaves and flowers, &c. The legs and lyre are richly carved and decorated to match the body of the case, the whole producing a striking and at the same time most refined, esthetic effect. The tone is superb, striking the listener by its wonderful volume, depth and richness, combining with greatest power a most refined and mellow character and charming singing quality, the action and touch perfectly delightful to the performer by its ease and responsiveness. It is, indeed, a most wonderful instrument in every respect, and the Senator is to be congratulated on its possession.

The veteran seed-grower, Mr. J. J. H. Gregory, of Marblehead, Mass., issues this year a rare catalogue of the choicest products of the soil, containing many new varieties. Mr. Gregory's reputation for fair dealing and integrity makes the warranty given with his seeds of unmistakable value; and no grower, either for profit or pleasure, should fail to secure one of these catalogues, which are sent free on application.

We have received from the well known seed firm of D. M. Ferry & Co., Windsor, Ont., their ILLUSTRATED SEED ANNUAL for this year. A house with the national reputation that the above one possesses, and whose name is a household word from one end of the country to the other, needs no further introduction from us. By selling only the purest and best seeds, and by honest and courteous dealing, they are now the peer in their trade, catering annually to over six million people. Their ANNUAL is gotten up in a very artistic manner, and contains such information that every person should have it. By sending your name to the firm they will send you one, postage paid.