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Agriculture.

WHEAT PRIZES.

Last week, the proprietors of the Maine Farmer, in appreciation of the efforts which the farmers of Maine have made in the growing of wheat, in answer to their calls, and as a still further inducement towards the raising of large yields, the better preparation of the land, and the most intensive culture for the wheat crop offered a prize of \$100 in cash, in three premiums—\$50 to the farmer who shall grow the largest amount of wheat from an acre of land (4840 square yards, surveyor's sworn measurement), \$30 to the second largest, and \$20 to the third largest. Farmers who intend to compete must signify their intention before the 1st of June and then their names will be published in the Farmer. The proprietors will lodge the money with the Treasurer of the State Agricultural Society, and the Trustees of which will name a committee, who will award the prizes on the second day of the meeting of the State Fair, in the Fall of 1879. The yield of the acre shall be given in bushels and quarts, and a statement sworn to before a Justice of the Peace shall be presented to the Committee after the same is ascertained containing the yield of the acre, the method of preparing the ground, and mode of culture, &c.

The effect of the Maine Farmer's offer, will, no doubt, be to stimulate a number of farmers in the State, to bestow extraordinary care on the culture of their acre wheat plots, and the success they attain will further stimulate them in future to cultivate the whole extent of their wheat fields, with as much intensiveness as if they were to receive a hand-ome prize for so doing.

The soil of New Brunswick is as well (and probably provisionally) adapted for the cultivation of wheat as the soil of Maine. The farmers of New Brunswick equally require (to say the very least), with the farmers of Maine, to bestow greater care on the culture of that important cereal. The spirit of competition is as strong in them as in the Maine brethren. They would, perhaps, appreciate as strongly as the Maine men, such an offer as has been made by the Farmer.

It is all very well for an old established agricultural journal like the Maine Farmer (which is almost an institution of the State), to take the lead in inciting the farmers to more "intensive" wheat culture, but with us, that must be the affair of our local government, which has the agricultural interests of the Province at heart. We would like to see the proper authorities taking some such step, at latest, before the holding of the next Provincial Exhibition.

BEEF SUGAR.

A new enterprise has been started in Maine which might be profitably followed by men with a little capital and farmers in New Brunswick, the making of sugar from beets.

The Maine Beet Sugar Company of Portland, has so far been successful and promises to attain good results. Beets enough have been received by the company this season to occupy the factory ten or fifteen days, working from seventy to one hundred tons a day. Had, the Maine Company, sufficient been grown to occupy the factory at work one hundred days instead of fifteen, it would have been a positive success.

It is a success even now up to this point; the machinery necessary for making beet sugar has been fitted up by the Company at the cost of \$15,000; they have demonstrated that sugar can be made from beets grown in Maine. Will the farmers of the State now aid the enterprise by growing beets enough another season to keep the factory in operation one hundred days? If so, the success of enterprise is not problematical or doubtful but is assured.

The enterprise started last spring under many disadvantages. Late planting of the beets was one of the chiefest of these, and late planting too, on land prepared in the spring, perfectly prepared the fall previous. The soil on which sugar beets are to be planted should be thoroughly prepared in the fall, so that the only thing to be done to it in the spring is a light surface cultivation. Then plant the seed very early—it may be planted indeed before thorough culture of the soil could be possible on account of frost. When the seed is put in early the crop gets ahead of the weeds, and the leaves so shade the ground that weeds do not grow as they do on late planted fields. Early planting also allows the vacant places in the drills to be replanted, so that every foot of ground may be occupied thereby securing a maximum yield—while if late planted, it would hardly pay to replace the vacant ground by a second planting, as they would not reach a profitable size. In the early stages of beet sugar industry in Germany, the beet sugar making commenced about the first of October;

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ANDREW LIPSETT, Publisher.

"AGRICULTURE THE TRUE BASIS OF A NATION'S WEALTH."

ANDREW ARCHER, Editor

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now, through early planting it begins by the middle of August. Surely we ought to learn much from the practices of a country so similar to our own in soil and climate as that of the north German empire.

After giving some statistics regarding the Beet sugar industry in Europe, the Farmer continues:—

So far as the beet sugar industry is concerned in this State, its success, as we have before said depends only upon the growing of the beets. This is all. The results of the present year, under the most unfavorable circumstances, show that farmers can realize from \$80 to \$120 per acre, cash, for the crop, or more than the average obtained from corn grown for canning purposes. One matter that has not yet come into our discussion of this subject is that of the disposition of the pulp. Now, the Beet Sugar Company agree to deliver it at any point on the Maine Central for the merely nominal price of \$1.80 per ton—just enough to cover the cost of handling. This is a most valuable feeding stuff for cows, horses, hogs or sheep—more valuable in fact than the beets themselves, because it is cut ready to be fed with hay or straw in the form of chopped feed, it has parted with most of its water, and the same weight is four times richer in nitrogenous material than the beets themselves. What our farmers need is this pulp for feeding to their farm animals. Should farmers in our State be willing to grow beets another season sufficient to warrant the expenditure, the Company will at once procure the necessary machinery for producing raw sugar from the beets, in various parts of Maine, so that farmers can be within easy reach of transportation to a factory, and can also haul back to their farms the pulp made from the crop. The beets in crude sugar. This raw sugar can then be transported to the refinery of the Company in Portland to be manufactured into the standard article.

With regard to refining, the Portland Press says:—

Wednesday October 30th, 1878 will be a memorable day in the annals of the State. For on that day, and in the presence of Gen. Conner, the Maine Beet Sugar Company of Portland turned out 12,000 pounds of granulated sugar, the first ever made in the United States from beets grown in America. Several establishments have, it is true, made small quantities of raw sugar of excellent quality, but a regular boiling of refined sugar made from raw beet sugar purchased in the United States has never before been attempted in the Atlantic States.

In reference to the beet sugar industry in Germany, the Maine Farmer says: "surely we ought to learn much from the practices of a country so similar to our own in soil and climate as that of the North German Empire. With more force we might say, that surely we ought to follow the example of a country so similar to our own in soil and climate as the State of Maine."

POLLED CATTLE.

We have had occasion several times to quote the opinions of Mr. J. H. Wallace, the great horse authority in America. He is also held to be a first rate judge of cattle. Last summer he crossed the Atlantic, and in the steamship of which he was a passenger, there were a number of American cattle, destined for the English market.

The horns of these animals he found were a cause of great trouble and irritation to them, and he was convinced that the pain they suffered had the effect of deteriorating their condition and lowering their value. Mr. Wallace pondered over these facts, and the result of his meditation was that he came to the conclusion that it would be exceedingly desirable that American breeders, and those carrying on the cattle exportation trade should have a hornless breed. He at once thought of the Angus breed made famous by McCombre of Tillyour, who at the Paris Exhibition this year, carried off the prize for the best breed of cattle bred outside of France; also the prize for the best beef producing group, embracing animals from all countries, and of which the Anguloks were the winners. Mr. Wallace says:—

Like all Scotch cattle, this breed have hardly vigorous constitutions and are very prolific. They are gentle in disposition, and mature very early. As milkers, they are not distinguished, for they have not been bred for that purpose. They are generally jet black, with fine glossy coats and plenty of hair. They grow to a large size, and are easily fattened at almost a year's age. It is claimed for them also that they weigh heavier than any other breed to their measurement, which makes them attractive to buyers for the fat market. It is an established fact that polled cattle sell better in the English market than any others. This fact became so well known to Irish breeders and dealers that they did not hesitate to "horn" their cattle, as they called the cruel operation. That is, they cut the hide loose from the horn and removed it when the animal was young. They claimed that this was no more painful than the emasculation of the male, and not so much so as the same operation on the female. The government, however, seemed to think differently, and made the operation a penal offence, and there is now no more of it. Barbarous and cruel though this operation of "horning" may be, I do not doubt that it would

pleasure, few desires for improvement. The coming of winter is an incentive to activity and effort, its demands must be met, its inclemencies provided for, and its compensations for man's benefit made the most of. Thinking of himself, the prudent farmer will also think of others, and so have his selfishness softened. His God-given friends the domestic animals, need his care; some of his goods must also go to clothe the poor, and the abundance of his garner be given to him that hath not. The intellectual needs are active and are constantly reminding him of their real supremacy, so that with the on-coming period of winter evening opportunities, the mind may be enlarged and the heart cultivated. How significant are the late autumn days of quiet evenings by the fireside, of the enjoyment that comes from books and reading, of the pleasures of social intercourse and rational conversation. But there comes also the feeling of sympathy for those who have not the means of these enjoyments or advantages, and a desire to contribute to their pleasure and comfort. The poor we have always with us—let us make our hearts bright and happy by bestowing a portion of our own goods to relieve the necessities and make sunny the homes of those of this class within our reach. Then shall these November days be radiant with pleasure, and our own souls comforted by the thought of having done something for the common good of humanity—the sublimest end of existence.—Maine Farmer.

Mr. Wallace is averse to cross-breeding, but he says:—

We have arrived at a stage of development in the cattle market that we must meet, and it makes no difference whether well established rules are right or wrong. The manufacturer in sending his wares to a foreign market not only understands the demands of that market, but how he can reach it at the least risk and cost. And so it is with the farmer, if he wishes to avail himself of the advantages of a foreign market for his cattle, he must produce that description of cattle that will bring the highest price in that market, and that can be carried there at the least risk and expense. If he is not already producing that description of animals, he must change his methods and blood, if necessary. To meet and supply a foreign market with beef cattle is a phase that is entirely new in cattle industry, in this country, and all at once we find that we have not the description of cattle best suited to that market.

Mr. Wallace says the short horn ox is near perfection, and what is wanted is that short horn without the horns. Like the short horn, the Angus polled ox has been bred for perfection of form. For many generations the Angus polled ox has been bred for perfection of form—the greatest amount of beef with the smallest amount of striking resemblance of form between the two breeds. In respect to form, then the cross between them would not be a violent one, and we would not expect any deterioration in that form. It is probable the size of the short horn would be somewhat reduced which might not be a disadvantage, but his quality would not be impaired. Indeed, there can hardly be a doubt that the quality of the meat would be improved. On this point, however, we are not left to reason or conjecture, for the cross has been tried with most happy results. A distinguished Scotch authority says: "of all the varieties of ox or beef cattle, there is none more satisfactory and remunerative to the feeder than the cross between the Polled Angus or Aberdeen and the short-horn. It grows to a large size, shows great aptitude to fatten, and when killed, the fat and lean are found to be distributed over its carcass in most desirable proportions."

Mr. Wallace says in the female short horn the development of the horns generally unsatisfactory from its uncertainty; it seems hardly in accordance with the nature of the animal to develop horns at all.

It follows then that of all the tribes of horned cattle the horns would be the most easily eliminated from the short-horn, by the introduction of polled blood. The introduction of a bull of the vigorous and prolific stock of the Polled Angus, into a herd of short-horn cows would be very apt to result in a large majority of the progeny being without horns. It would be curious to note just what the proportion would be, but I think it is philosophical to conclude that the strong noble elements in the bull would be apt to eliminate the very feeble horn element in the cow. With this as the result in the first generation, a foundation is laid, upon which the breeder can build, as his judgement or fancy may dictate.

If it is important that there should be a hornless breed of cattle for exportation, the Canadian breeder is much interested as the American in the subject.

THE SIGNIFICANCE OF NOVEMBER.

With the beginning of November the days are loaded with peculiar suggestiveness. May is not more abundant with the hope of green fields, the delights of out-door life, and the joys of returning freedom to poor children who have lived for months in pent-up abodes abounding in discomfort—than is November with its chilly, murky, dull atmosphere and often duller skies, suggestive of the shutting down of out-door comfort, the beginning of the winter's reign of domesticity, of enjoyments to many, but, alas! of suffering and misery to many more. The fields are brown and bare, the wind sweeps cheerlessly through the leafless trees, and the domestic animals seek the shelter of friendly screens and the forage provided by the provident farmer. But they are suggestive of good harvests; cellars, and bins, and mows full of the rich fruits of the earth; of the peace of home, and the friendships which gladden the heart of man. Moreover, November days bring us the feeling of a completed work. Nature delights herself in rest. There must be a period of inactivity following one of so great effort as is required in the processes necessary to produce a kernel of wheat, and a bunch of grapes. There are agencies necessary for carrying on this work of Nature in the coming years, which can only be perfected and rendered operative by the rest which the winter days bring to all inanimate existences. Besides, these changes which the various seasons bring to us as well, a means of enjoyment and satisfaction. We tire of one thing; an unvarying round of sameness produces few emotions of

or stalls. The testimony of all breeders of choice stock favors warm winter quarters, and it has always been shown that animals will thrive on far less food when protected than when exposed to cold winds and rains; therefore it is economy to furnish shelter, even if the comfort is not taken into account.

In regions where there are no heavy snows in winter, cheap sheds and windbreaks will answer. If nothing better can be afforded, throw up a bank of sod on the side from which the prevailing winds come in winter, and then set up stakes, put on poles, and cover with brush. Good permanent sheds, or what is better, barns, are best; but there are many places, especially on the prairies and plains, where such buildings, owing to the scarcity of timber, would be far too expensive for the new settler, and some cheaper structure must answer; but in no case can the owners of stock afford to leave them wholly exposed during the winter months. All talk of the climate of some of our Western States and Territories being so mild that stock do not need shelter is sheer folly, and only an excuse for neglect to provide it; and although there may be an occasional winter so mild that stock will pass through with few losses, still there never was one during which there were not cold storms that brought discomfort to animals exposed to them, if nothing more serious. But frequently we hear of the death of hundreds and thousands of heads during the prevalence of a snow storm, all in consequence of a lack of shelter and necessary food. While losses can be so easily prevented, it is not only cruel, but the reverse of wisdom on the part of stock owners, to neglect so important a matter. The cold weather will soon be upon us, and every farmer should begin in time to put his barns, sheds, and other outbuildings in perfect order.—N. Y. Sun.

HOME-MADE SUPERPHOSPHATE.

In the November number of the Journal of Chemistry, Dr. Nichols gives the following short notice of his field meeting and lecture on manufacturing chemical fertilizers, at his farm at Haverhill.

We have long held the view that some method should be devised to afford practical instruction to the men who have in charge the farms and gardens of the country—men who, although they may have reached middle life, are desirous of availing themselves of the facts and principles of modern husbandry. Our schools and agricultural colleges are designed to instruct only those who have not entered upon the actual labors of the farm, or only the young men who are seeking an education. Periodicals and journals devoted to agricultural matters for the most part do a good work, but they fail to bring the results of modern research and improvements home to the farmer; and the same may be said of the ordinary lectures delivered at farmers' meetings. As far as words go they accomplish all that can be accomplished, but something more is needed. Instruction is better conveyed by seeing than by hearing, and when both are combined the highest and most satisfactory results are attained.

THE INTERIOR OF NEWFOUNDLAND.

The interior of the island is at present almost wholly uninhabited. Traces of a few tribes, thirty and forty miles long, only remain to tell of the sports and labors of the Beothicks, the aboriginal Red Indian tribe, long exterminated or driven away. The shortsighted policy of the whites in killing the goose that lays the golden egg, led to the destruction of the unfortunate Beothicks, for the sake of the valuable furs of fox, otter, etc., which they alone could procure. With them, of course, died out the fur trade. After they had been wantonly persecuted for over two hundred years, the local government in the beginning of the present century, woke up to the idea of protecting a tribe that no longer existed! As a step towards showing a good will, an Indian woman was forcibly taken from her home, brought to St. John's, kindly treated, presented with presents, and returned to her tribe. The incidents attending the abduction of this woman and the death of her only child, so suddenly deprived of its mother's care, roused the ire of the Beothicks, who at once resolved to kill any of their number who should afterwards be captured and returned. The result of this was that three more women, who were similarly treated, refused to return to their homes. Two soon died, the third, a fine handsome woman, named Shanandith, lived for two years with her captors and became quite civilized. After learning to speak English, she explained her reason for her refusal to return to her companions, saying she would surely have been killed. Since her death in 1825, not an Indian has been seen. The skeleton of "Mary March," who at the time of her abduction, was at the death of her only child, so suddenly deprived of its mother's care, roused the ire of the Beothicks, who at once resolved to kill any of their number who should afterwards be captured and returned. The result of this was that three more women, who were similarly treated, refused to return to their homes. Two soon died, the third, a fine handsome woman, named Shanandith, lived for two years with her captors and became quite civilized. After learning to speak English, she explained her reason for her refusal to return to her companions, saying she would surely have been killed. Since her death in 1825, not an Indian has been seen.

That this method might be shown to be quite simple, and one to be undertaken by any ordinarily intelligent person, the whole process was carried through under the direction of Mr. Davis, our farm superintendent. He placed on a platform a lead-lined tank made of pine plank, four feet square and one foot deep. Into this he poured ten gallons of water, and then the contents of one carboy of sulphuric acid (165 lbs.) into the beehive gradually 380 pounds of fine bone charcoal, such as the sugar refiners use, and after the violent reaction was over, in about an hour, he had about a quarter of a ton of green superphosphate, analyzing 16.50 per cent. soluble phosphoric acid, ready for the field. It was perfectly dry in two hours, and could be taken in the hand, and it needs no grinding. In this simple way, Mr. Davis made twelve tons during leisure days last winter; more than enough to meet our wants in the summer. The apparatus is the result of much experience, and is exactly adapted to the wants of farmers. Our method is perfectly practicable when the South Carolina phosphatic rocks are used, pulverized, instead of the bone char. In order to show that it is practicable for the inexperienced, we will state that Hon. E. H. Rollins, United States Senator from New Hampshire, spent a day with us at the farm, and from the brief instructions given he has been able to make a tank, and manufacture several tons of superphosphate at his farm at Rollinsford, N. H., the past month.

The barn lecture occupied one hour, and it was indeed a novel sight—one perhaps never before witnessed in this country. Seats were placed in spaces

ROOTS FOR STOCK.

There several varieties of ruta bagas good to rise for feeding stock. Two sorts, as good perhaps as any, are Lane's Improved and the Yellow Globe. Both are of good quality and give large yields. A rich loam with a little mixture of sand is the best soil for turnips, and should be made clean and of fine tilth before sowing. The latter part of June in Central New York is generally preferred, though some do not sow till July. One pound of good seed is enough for an acre. As bone meal is a special fertilizer for all plants of the turnip kind, finely ground bone meal is a good thing to drill in with the seed. Sow in drills with a machine, just far enough apart to admit of cultivating with a horse, say thirty inches, and keep the ground clean, especially while the plants are small. They should be thinned out as soon as well established. On good ground, with average care and a fair season, twenty-five to thirty tons to the acre may be reasonably expected. Some claim large crops. A large, cool cellar is the most convenient place to winter them. They require a low temperature. They can be buried out in heaps safely if the heaps are not made so large as to induce heating. By mixing fine, moist earth among the roots, either in layers or by filling it into all the spaces between them, the dirt will take up the exhalations from the roots, prevent sweating and heating, and admit of putting many more in a pile than could be done without mixing dirt with them. Ruta bagas do not generally yield as largely, with the same ground and care, as mangel wazel, and the latter is also the sorer crop, and gives better flavor to milk.—Prof. Arnold.

APPLES FOR MILK COWS.

A correspondent of the New England Farmer thinks that apples may be fed to milk cows with profit, with a certain caution he says:—

Yes, you need never fear to feed any apples to milk cows, when you have a surplus which you wish to dispose of. There is an abundance of apples, this season, and many of the earlier ones, especially, will be allowed to waste. Now, if, instead of letting the windfalls and unripe apples rot as they fall, you would pick them up and feed to cows giving milk, the increase in quantity would well repay for all the trouble, provided discretion and good judgment are used; nor will the cows be injured thereby, at least, such was the fact in the case which came to my knowledge a few years since, when there was a great abundance of apples. I elsewhere mention the same thing at the time, and here give the substance of the experiment being personally acquainted with the experimenter. The farmer was rising four-score years, and had a great quantity of apples, same as most others in the same locality. He revolved the question in his mind what to do with the apples. To make them into cider was out of the question, as he was out of casks to put it in. Several other plans were equally impracticable, and finally he hit on the idea of feeding them to his cows. He had one which gave only a small quantity of milk, and with her he began his experiment, thinking, perhaps, there could be but a small loss should the experiment prove a failure. He commenced by giving two quarts at a feed, and gradually increased it up to half a bushel. The cow began to increase the quantity of her milk till she nearly, or quite, doubled in quantity. The milk and cream was tasted at every stage, and found to be equally as good as when grass and corn constituted the feed. To make assurance doubly sure, he stopped feeding the apples, and immediately the cow fell off in her milk to her former yield. After a few days, he began feeding again, and former results were attained. It must be understood that the apples were a mixture of varieties, the majority being sour, and windfalls at that. Being pleased with the result, he gave only a small quantity of milk, and with her he began his experiment, thinking, perhaps, there could be but a small loss should the experiment prove a failure. He commenced by giving two quarts at a feed, and gradually increased it up to half a bushel. The cow began to increase the quantity of her milk till she nearly, or quite, doubled in quantity. The milk and cream was tasted at every stage, and found to be equally as good as when grass and corn constituted the feed. To make assurance doubly sure, he stopped feeding the apples, and immediately the cow fell off in her milk to her former yield. After a few days, he began feeding again, and former results were attained. It must be understood that the apples were a mixture of varieties, the majority being sour, and windfalls at that. 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Literature.

Written for the "Advertiser."

THE TRAGEDY OF ALDERNEY BREAKWATER!

BY R. C. H.

(Concluded.)

That was all. You can imagine how every word she spoke deep into my heart, but it was the wrong time to show emotion, acts were needed now, not words.

When a youth I had lived some months with an uncle of my own who was a farmer in Berkshire Co., Mass., and I now decided to introduce myself to him in some way and pass myself off as a young farmer from that State.

full realization of all that it was in my power to do burst upon me, and the opportunity I had so long and earnestly sought appeared so near, I was nearly overcome, I trembled violently, my excitement was excessive, but I passed without notice by my object, who was enjoying the beautiful sunset and was turned from me looking out toward the sea.

with baffled rage at their own impotency. When this ghastly horrid object first appeared the remains of clothing still seemed to cling around its limbs, but gradually these remains disappeared as if by magic, and the flesh upon its bones began to disappear in like manner as the clothes had done.

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RECEIVED TO-DAY, 1 CASE WHITE PIQUES, Hamburg Edgeings AND INSERTIONS. DEVER BROS. SCULLY & COLLINS.

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