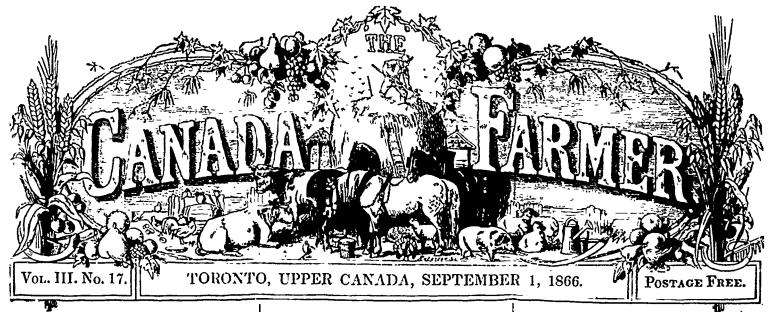
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The Lield.

Familiar Talks on Agricultural Principles.

MISCELLANROUS FERTILIZERS

After four "Talks" on the subject of manures, our readers will begin to think it time to change the topic of conversation. Before doing so, however, sent rates, it would be wise policy to buy a supply of Mart is a mixture of time and clay, which produces a brief reference must be made to some fertilizers sources of enrichment to the soil. If one description consisting largely of carbonate and phosphate of lime. existence of this substance in many parts of Canada, of fertilizer cannot conveniently be had, there are soot is a precious manate, being made up of carof fertilizer cannot conveniently be had, there are usually others within reach, so that there is no need to let land become impoverished ..

Guano is a very rich and valuable manare. It on certain uninhabited islands on the coasts of Peru and Africa, where it has been accumulating in a dry climate, for an unknown length of time. It contains in large proportion, and in a highly concentrated form, nitrogen and the phosphates, those rare and expensive elements of plant food. It varies in quality, but good guano is a very powerful fartilizer From two to four hundred weight per acre on most soils will suffice for a crop of turnips and a succeed ing grain crop. It is however better to apply it as an adjunct to farm-yard manure, in half the quantity just mentioned, because although it is rich in the rarer and more concentrated material of plant food, it does not contain much of the commoner organic substances necessary to make a soil tertile. This fertilizer has been too scarce and dear in Canada to be much used, but as our readers will have observed, Messre. S. C. D. Clark & Co., of this city, lately ad vertised in our columns, that they would import a cargo direct from the Chinicha Islands, provided orders for 300 tons could be obtained, and would fur nish it at \$50 per ton. At this price, we do not know of a better investment that the farmers of this country could make, especially those whose lands are worn out by successive grain crops. For such soils, there is no better restorative than guano,and none that acts more quickly. An artificial guano is made in Newfoundland and Maine, from fish refuse, of which Prof. Dawson speaks in high terms 25 one of the richest of portable manures.

Wood Ashes, unleached, are a very valuable manure, and may be applied with any crop. They mus however be used sparingly, as in addition to their fertilizing properties, they exert a caustic or decomposing influence on organic manures and the roots of plants. Fifty bushels per acre for heavy soils, and a less quantity for lighter soils, will suffice. Wood ashes are especially valuable as a manure for what are called he potash plants, viz. potatoes, turnips, Indian corn, and beets. This is in consequence of the great amount of carbonate and other salts of potash which they contain. Many farmers are hear, soils containing considerable vegetable mat the soil; but what sap it still contains continues to

in the habit of selling their fallow and house ashes to ter. On light soils, it must be used sparingly. ashery pedlars, or even of teaming them to the near-necessity for applying it may be ascertained by est ashery for sale themselves. This is poor economy, the simple experiment of trying whether clover and They are worth more for manufal purposes than the such of the green crops as require much lime will soap and potash manufacturer can afford to pay for thrive on a particular soil. If they will not, lime is supplies from town and city households. On no the acidity of soils, particularly that of bogs and account should a farmer ever sell a bushel. At pre-swamps.

bon, in a state of the finest powder, and also full of volatile salts. In Flanders, it is carefully preserved to clayey soils. for beds or colza, which it protects from plant lice. are hasbanded and scattered upon meadows with the best effect. The soot from braminous coal is even better than that from wood.

Han and hoofs, are excellent manures, and may often be obtained snaply for the hauling, from adjacent tanneries. They decay slowly, nevertheless an application of from 20 to 50 bushels per acre, produces marked effects.

See weed is a fertilizer of great value, and easily obtainable by farmers who live on the sea-coast. It is however beyond the reach of most of our readers-Lind Weeds are useful too, especially those rank

roadside weeds, which, left to mature thoir seed, are a constant source of annoyance to adjacent farms. Their removal would give a neater appearance to the country, as well as increase the manure-heap and prevent the multiplication of weeds.

Dead Animals rank among the very best manures. The practice of dragging off a dead horse or cow to the edge of the woods, and leaving it there to decay and fill the air with pestilential odours, cannot be too severely condemned. It is wilful waste, as well as the creation of an exectable nuisance. The best way to dispose of the carcass of a dead animal is to place it in a hole one or wo feet deep, sprinkle plenty of quick-lime upon it, then throw on a layer of earth, next a layer of gypsum, then again a layer of earth mixed with powdered copperas, und over all a good thickness of earth. The gypsum and copperas absorb the ammonia and sulphuretted hydrogen, and prevent all unpleasant offluvia. In a few weeks, the heap may be opened, the bones separated to be used rich and lasting fertilizer than stable manure.

them. Let these establishments be left to obtain their needed. Lime tends to mellow clay land, and corrects

them to spread on the land. Leached ashes, though all the permanent effects of lime, though it acts less not yet named. Nature is bounteous in providing of less value than unleached, are still of great utility. | quickly. The geological survey has absorvered the applied, clayey marl to sandy soils, and sandy marl

Gypsum or Plaster of Paris is useful as a supply of consists of the droppings of sea-fowls, and is found In England, the sweepings or town and city chimneys, sulphate of lime to crops, affording not only lime but a proportion of sulphur, often an important and es, sential element of plant-food. It is valuable also as a means of fixing carbonate of ammonia, one of the most volatile products of the accay of animal substances. By converting it into sulphate of ammonia its waste is prevented. Plaster should be applied in the shape of very fine powder, in the spring of the year just when vegetation is beginning, while the dea is on the plants. It must not however, he applied in rainy weather.

Green Manures are standing crops ploughed in at the stage of tipeness, when they contain the greatest quantity of soluble matter. Clover, lucerne, sainfoin, vetches, cabbages, radishes, turnip-tops, Indian corn, and rye, are the best plants for this purpose. Deriving a large proportion of their nourishment from the atmosphere, they add considerably to the fertility of the soils into which they are ploughed.

There are various artificial fertilizers of which there is not now space to speak particularly. In concluding this important subject, we would quote with entire approval, a piece of advice we have met with somewhere, to the effect that a farmer should never run in debt, but if he ever does contract a debt, it should by all means be for MANURE.

Harvesting Wheat.

THE advent of barvest induces us to offer a few observations on the best methods of conducting its operations, and first, with regard to the degree of maturity in which wheat ought to be cut in order to in bone manure, and the remaining mass turned over produce the best sample, and to avoid the most loss. and mixed, if necessary with additional earth. Dana I. may be laid down as a rule, that as soon is the in his. Muck Manual" affirms that the body of a deau grain has passed from the milky state, which may be horse can convert twenty tons of peat into a more ascertained by squeezing it between the finger and thumb, it may safely be cut, and any further maturi Lune is an important manural agent, chiefly may it requires will be accomplished quite as effects consequence of its promoting the decay of vegetable ally on the shock. The rationale of this is, that wheat matter, and seiting at liberty the potash and other dies upwards, that is, it begins to die first at the root. alkalies in the soil. It should be used most freely on and from that time it receives no nourishment from

rise to the ear; and this process is not stopped by cutting. If wheat stands until it is dead-ripo it gets thicker in the bran and rougher outside, and will acquire a great weight as well as measure if it could be all assured; but wheat when dead-ripe will shell both in cutting and removing, and the loss is probably as great in that way as the gain would be otherwise. On the other hand, the early cut grain has a

wise. On the other hand, the early cut grain has a fine, thin, glossy skin, weighs heavy in the bushel, and ought to fetch several shillings per quarter more than the dead-ripe corn, because it produces more flour in proportion to its weight by 7 or 8 per cent., and the quality of the flour is very superior.

In the next place, if there is any reason to apprehend a fickle or wet harvest, the best way of preserving the wheat from taking harm is the adoption of the French practice of tying a sufficient number of sheaves near the base, and then opening and placing them head downwards over the shocks. If this is done cleverly, whatever rain falls will run down the done cleverly, whatever rain falls will run down the sides of the outer sheaves, or moyettes, as they are called in France, where this plan is almost university adopted. The wheatharvest in that country last year was very wet, but wherever the moyettes were used the grain was harvested in a perfectly dry and sound state, whilst where it was neglected considerable damage was sustained. It is surprising that the custom has not been more generally adopted in this country. We have seen, with deep regret, wheat standing on the shock in a wet time, week after week, without the slightest precaution being taken to guard against the weither, in consequence of which the grain has in some cases been sprouted to that degree as to give the shocks quite a green appearance. done cleverly, whatever rain falls will run down the

appearance.
In the third place, the proper time to cart wheat so as to avoid its heating is when the knots or joints of the straw yield no moisture when pressed with the thumb nail. If they do, it is a proof there is sufficient moisture in the straw still to cause it to heat on the stack, which will seriously injure the sale of the grain. Some farmers, in a "catchy time," pay little attention to this proof, under the idea that a little heating in the stack it better than having it sprouted on the in the stack is better than having it sprouted on the shock—which is true enough; but the wisest plan will be to avoid both, by using the moyelle, and availing yourself at leasure of the first fine day after the wheat is properly weathered, to cart it.—Mark

Lane Express.

How to Set a Bar Post.

"Axy fool can do that," said neighbor Tucker, as I got the hole dug out to plant mine for the fifth time. Just chuck your post into that 'ere hole, and pound the dirt in well, and it will stay till it rots. Dirt packs a great deal solider than stone," said Tucker by way of a clincher.

Not so fast, neighbour Tucker." said I "There is gumption needed in setting a bar post as much as in setting a ben. I used to do it in your way until I found out a better. You see if you pack the dirt in solid there is no chance for the vater to run off quick. and the soundest wood will rot off just below the sur and the soundest wood will fot oil just below the surface of the ground in a very short time. I have had 'em spoiled in three years so that I had to put a the other end. That bur post has been in service at least 35 years, and if you examine the wood, you will see it is about as sound where it has been under ground

it is about as sound where it has been under ground as it is above.

"I dig a good sized hole to begin with, and then put in a good sound post of chestnut or white oak stripped of the bark. The butt should be at least eighteen inches below the lower hole in order to hold well. I pack in around the post stones of any convenient size, and pound them in snug with a crowbar This leaves room for the air to circulate all round the bottom part of the post, and it is kept about as dry as if it were above ground. A post set in this way is as if it were above ground. A post set in this way is good for an ordinary life time. I have some posts of forty years standing, and they are good yet. The frost of course will move the stones, and they will need resetting occasionally, but no oftener than those packed in dirt."

packed in dirt."

"How much, do you suppose, you have saved by that operation," asked Tucker with a sneer.

"No contemptible sum," said I, as you can easily calculate. Bar posts set in dirt will last say five years; in alone forty. If they are worth \$2 a pair I save seven pairs in forty years, or fourteen dollars, not counting the interest for every bar way I have forty on my farm, quite too many I admit, but that makes a saving of \$560, which is worth looking at."

It is by attention to small things that the farmer makes his money and his fortune. A penny saved is as good as a penny earned.

as good as a penny earned.
Connecticut in American Agriculturist.

The Agriculture of the South of France.

These lands were, it may be, as richly and care THESE lands were, it may be, as richly and carefully tilled in the days of Augustus Cæsar as they are now; or rather, as they were at the end of the cigh teenth century. For since then, the delver and sower—for centuries the slave of the Roman, and, for centuries after, the slave of Teutonic and Saracenic conqurors—has become his own master and his own landlord; and an impalse has been given to industry andlord; and an impulse has been given to industry which is shown by trim cottages, gay gardens, and fresh olive orchards, pushed up into giens which in a state of nature would starve a goat. The special culture of the country more and more special as we run eastward is that of the mulberry, the almond, and the olive. Along every hill-side, down every glen, lie orchard-rows of the precious pollards. The mulberries are of richest dark velvet green, the almonds, one glory of rose colour in early spring, are now of a paler and colder green; the olives (as all the world knows) of a dusky grey, which looks all the more desolate in the pruning time of early spring, half the boughs of the evergreen are cut out, learing the trees stripped as by a tempest, and are carried home for fire-wood in the quaint little carts, with their solid creaking wheels, drawn by dove-coloured kine. Very ancient are some of these olives, or rather olive-groups. For when the tree grows old coloured kine. Very ancient are some of these olives, or rather olive-groups. For when the tree grows old it splits and falls asunder, as do often our pollard willows; the bark heals over on the inside of each fragment, and what was one tree becomes many, springing from a single root, and bearing such signs of exceeding age that one can well believe the country tale, how in the olive grounds around Nismes are still truiting olives which have furnished oil for the fair Roman dames who cooled themselves in the sacred fountain of Nemausa, in the days of the twelve Casars. Between the pollard rows are everywhere sacred fountain of Nemausa, in the days of the twelve Cosars. Between the pollard rows are everywhere the rows of vines, or of what will be vines the summer comes, but are now black knobbed gnarled clubs, without a sign of life save here and there one fat green shoot of leaf and tendril bursting forth from the seemingly dead stick. One ought to look with something of filial reverence on the agriculture of the district first which we are prospected for its district first which we are prospected. wi's something of thial reverence on the agriculture of the district into which we are penetrating, for it is the parent of our own From hence, or strictly speaking from the Mediterranean shore beyond us, spread northward and westward through France, Belgium, and Britain all the tillage which we knew—at least, till a hundred years ago—beyond the primeval plan of clearing or surface burning the forests, growing miserable white crops as long as they would gridly and then letting the land release for twenty. growing insertable white crops as long as they would yield, and then letting the land relapse, for twenty rears, into miserable pasture. This process (which lingered thirty years ago in remote parts of Devon), and nothing better seems to have been that change and nothing better seems to have been that change of cultivated lands which Tacitus ascribes to the ancient Germans. Rotation of crops, in any true sense, came to us from Provence and Languedoc; and with it subsciling, irrigation, all our artificial grasses, with Incerne at the head of the list, our peas grasses, with lucerne at the head of the list, our peas and beaus, some of our most important roots, almost all our garden flowers, vegetables, fruits, the fig, the mulherry, the vine (the olive and the maize came with them from the East, but dared go no further north) and I know not what more, till we may say that (saving subsoil-draining, which their climate does not need) the ancestors of these good folks were better firmers fifteen hundred years ago than too many of our countrymen are at this day liev. Charles Kingsley, is Good Words for July

Urine as a Liquid Manure.

A Whiten, in the transferer's Chronicle, finds urine a most valuable fertilizer, when used in the following Human urine, free from other slops, is al lowed to get quite stale, which in a moderate tempera-ture it will do in about a neek. In this condition it is strongly alkaline, and will turn red litmus paper blue. To the urine in this condition, sulphuric acid (oil of vitrol) is gradually added until it is slightly acid, which is known by its turning the blued litmus paper red again. The amount of acid required, is paper red again. The amount of acid required, is about two ounces to each gallon of urine. To neutralize any excess of acid, add about 2 ounces of ground chalk to the gallon. Of the liquid thus prepared, one pint, after stirring it thoroughly to diffuse the settlings, is diluted with one or two gallons of water, the latter proportion being strong enough for most plants, and applied at once. This manure has been found very serviceable on grass plots in England, and may be applied wherever guano or other ammoniacal manure would be admissable. The litmus paper is paper coloured with an infusion of litmus. It is blue or red, according as it has been subjected to the action of an acid or an alkali. The paper, or the litmus itself, may be had of any good druggist. good druggist.

Results of Irrigation.

In connection with this subject, we take the following remarks on Willshiro irrigation from the Agri-cultural Guerle of the 30th June.

cultural Guette of the 30th June.

Barring an occasional thunderstorm, we are enjoying a splendid haymaking time; and if anything can help the wheat crop over the disastrons effects of a wet March and April, it will be the extremely fine season during which it is now in bloom. The recent rains, after a cold dry May, have been welcome for all succulent growth. Grass and mengold-wurtzel and turnips have greatly benefited by them; and the effects of a few hundred tons per acre of water falling upon the hide bound soil diastrate and explain the results which all visitors to the recent show at Salisbury may have seen of the many thousand tons per acre which are poured over grass lands there during winter. We then saw a heavy crop ready to cut, equal ter. We then saw a heavy crop ready to cut, equal in weight to the ordinary hay crop of a first-rate dry meadow, the land having already yielded a larger crop before to ewes and lambs, folded over it in April crop before to ewes and lambs, folded over it in April and May. Mr. Combes, of Tisbury, near Salisbury, who is the great authorny on Whitshire irrigation, informs us that a square hurdle—i.e., about 4 square yards—is the average daily allowance for a ewe and lamb, putting their consumption at 24 lb., we have a crop of upwards of 12 tons of grass per acre, and this is taken before the early June haymaking, which represents almost as much more. This is the result of an enormous flooding with water. It is the practice to lay on as much water as possible in a thin flowing sheet during November and December. The watering guess on more or less during winter, and even sheet during November and December. The watering goes on more or less during winter, and even in the severest frosts the grass will grow under the ice. We are quoting Mr. Combes' statement. In January, as a general rule, it is jeld to be advisable to water five days in six—in February about three days in four, and at the beginning of March every other day. Consider what quantity this represents. When in full flow the water runs on at the rate of 2 will the part of the proper pure many parts. 150 January hours 30. or 3 tons per acre per minute, 150 tons an hour, 30,-000 tons and more every day. No doubt enormous growths of grass, greater than are known in any orgrowns of grass, greater than are known in any ordinary water meadows, are obtained from 6,000 to
10,000 tons per acre yearly in the case of sewage
water. The clear spring water, which is said to produce the best effect in Witishire, may be as pure as
one can imagine it welling from the chalk, but 30,000
tons poured daily over every acre for nearly 100
days must contain more food for plants than even 10,000 tons of sewage per annum—tood enough to account for the luxuriant growth it produces, however
small the ner-centage of food for plants it may consmall the per-centage of food for plants it may con-

tain.

Mr. Combes has ascertained by repeated cuttings

And the state of grass during and weighings that the total growth of grass during the year in a well-managed water meadow may be as much as 40 tons per acre. This was taken by frequent movings throughout tweive months; but the ordinary practice is to feed off in April and early May, to mow in the middle of June, in some cases to take a second crop for hay in August, and thereafter take a second crop for hay in August, and thereafter to graze with cattle and horses, keeping the land perfectly dry during autumn, and feeding it bare, before the first November flooding. The four streams which meet near Salisbury are utilized in this way over about 9,000 acres of land, and probably 300,000 to 400,000 tous of grass are thus produced, worth £200,000, or upwards of £20 per acre to the occupiers, and enabling a most advantageous management of the farms to which they belong. According to Mr. Combes, the spring grass of a 20-acre meadow, fed with sheep, will keep 400 couples during seven weeks in April and May. During this time this flock is used to fold 15 to 20 acres of arable land. This meadow will then in two cuttings give at least 60 tons of hay; and thus there is annually put on the arable land 15 acres of spring folding and 60 tons or more of hay, thus enabling the farmer to dispense with the growing of enabling the farmer to dispense with the growing of 20 acres of turnips and 25 acres or more of field grass, 20 acres of turnips and 25 acres or more of field grass, or to increase the number of his sheep stock on a farm of 400 or 500 acres at least 12 per cent. In one instance given by Mr. Combes, 277 couples were kept 33 days and 11 cows 26 days with less than 10 lb. of hay per day per cow, on a meadow of 134 acres, after which there was cut from the same meadow at least 2 tons per acre, the aftermath being fed by cows and horses."

Songo Sugan.—A Lebanon (Ohio) paper says:—
"The question, 'Can sugar be made from sorgham?'
has been answered by the Shakers at Union Village has been answered by the Shakers at Union Village They have a method of their own discovery, by which they make sugar from the pure sorghum material. We have seen a specimen. It is very dark, exceedingly coarse-grained, and has the real sorghum taste, but it is thoroughly dry, and is indeed sugar. They have not brought their method to perfection, but they expect in a short time to be able to make a good article."

Stock Department.

Taking the Young Pigs From a Sow When She Litters.

The following controversy appeared in a recent issue of the Irish Furmers' Gazelle. The letters themselv s as well as the editorial remarks appended to them are suggestive, and breeders will be amply repaid by giving the subject as here represented, their careful attention:

A letter from "Harden, Yorkshire," appeared lately, which somehow escaped our attention, or we should have replied to it; however, as it is of some little importance, and as it takes us to task for our mechings were insent in

eachings, we re-insert it:—
Sm.—Under the head of "Queries and Answers,"
m your paper of last Saturday, you instruct some

Greenhorn from Ennis how to manage his fat sow in her first perturition as follows:—
"Attempt no quacking (!), but have her closely watched, and as she litters let each be taken from her and put into a basket with some fine hay or warm wool, till ail are come forth. Then put each by hand to suck, and when they get enough return them to the basket. Attend to this three or four days before they are permanently left with the sow,

Now, sir, I venture to say that no sow will stand her young ones being taken away in a basket, and brought back in this manner for three or four days, it is lined with silk, instead of warm wool or fine it is lined with silk, instead of warm wool or fine hay. Your friend will never rear a pig. Let him try this plan: have the sow lean, not fat. Let the regular attendant only be present on the occasion. As each one comes forth let him place it to the teat, and get the litter to suck as quietly and as soon as possible. He must try to keep them from being lain on or trod upon by the sow, but rather allow some to be

After they have all found the way to the teats and had a slight breakfast, let them retire and leave them to the care of their natural and generally most affectionate guardian. This is the experience of—Yours; Harden, Yorkshire.

To this the original querist from Ennis replies as

Son. I see by your last number that your answer to my query—what should I do with a valuable sow on her first litter, within a week of her time, from which I apprehend trouble in her parturition owing to her being very fat?—has induced 'Harden, Yorkshire,' to give us the benefit of his experience, and recommends me to try his 'plan.' Before recurring to this plan I must say I tollowed your instructions, and succeeded quite to my satisfaction. That 'intresting event is now over, and I am happy to say

and succeeded quite to my satisfaction. That 'interesting event' is now over, and I am happy to say, the fat so a' and her young are now all right.

I have found no difficulty in removing the young into 'the basket,' and leaving them near, not 'taking them away in a basket for three or four days,' as Harden' phrases it. Atter two days I found I could with safety leave the young ones with her.

Now, sir, as to 'Hardens plan, viz.. 'Have the sow lean, not fat. Let the regular attendant only be present on the occasion. As each one comes forth

present on the occasion. As each one comes forth let him place it on the teat. I differ a bit from him. let him place it on the teat.' I differ a bit from him. Ist. I don't like to breed from a sow that will not keep fattish even on grass, with very little other feeding. 2nd. I consider the better the condition, the better she will breed and rear her young. 3rd. I lean sow' will rarely, if ever, bring two litters a year regularly, as a well fed, fattish sow will usually and ought to do. 4th. I don't think it is possible to let each he placed to the teat as he comes forth.' ith. The young ought not to be placed to the teat until the placenta has been ejected.

"I would like to know on what anthority 'Har-

until the placenta has been ejected.

"I would like to know on what authority 'Harden' says' your friend will never rear a pig.' I may tell him I hope to do so, and have reared some good ones, which he would admit if he saw my present stock. More, I would like to know is it because I seek information in your columns he calls me 'greenhorn from Ennis.' I heg to tell him it is a long time since I was a 'greenhorn.' I also tell him I agree with him in leaving sows to farrow with the 'regular attendant only,' as the less they are irritated the sooner they let down the milk; also that I am obliged for they let down the milk; also that I am obliged for his plan, which is not a bad one, save those little objections I have raised.—Yours, &c., Subscamen, Ennis, 28th May, 1866."

Our subscriber's letter is certainly a sufficient answer to "Harden, Yorkshire;" but as he calls in question the authority and practical value of the infollowing day (by the formation and recommendations given, and by so doing would lessen the confidence which the Gatelle Charles Barton 70 gu has for so many years enjoyed, as far as "Harden, of Mr. Robert Garne.

Yorkshire" can do by stating "your friend will never rear a pig," we have but to say that the mode of treatment recomended by us has been adopted by numerous pig breeders and fanciers in Ireland.

It will be in the recollection of many of our readers who have frequented the Royal Dublin Society's Spring exhibitions of live stock that sows have been shown which had littered on the way to or in the show-yard, and the owners and attendants treated the show-yard, and the owners and attendants treated the mamma pig and her offspring exactly as we have recommended, and that the visitors were dally witnesses of the interesting sight of seeing the basket brought near the crib in which lay the unwieldy mother, a great overgrown white lorkshire sow, and the tiny young things, handed one by one, put in through the bars of the crib, still held by hand, and allowed to suck till satisfied, and then removed.

In addition to this nothin instance, we have a

In addition to this public instance, we have a beautiful Berkshire sow since it was eight weeks old. The 27 February last she had her first litter, no less than 14 black beauties. She littered in the middle of the night, and the young things as they came forth were one by one basketed, and were brought regu-larly from the warm kitchen to the sow and regaled larly from the warm kitchen to the sow and regaled in the manner recomended, and restored to the basket and warm kitchen till the "lady in the straw" was perfectly recovered and able to perform her maternal duties, which she did with care. Had we not adopted this plan it is quite possible we would never have reared one of them; for, after having given birth to thirteen, we thought all was over, and in some hours after she gave birth to the fourteenth, which she devoured. Well, we reared the rest, and have now six of as well-looking swinish lads and lasses as can be seen. So much for "Harden's" aslasses as can be seen. So much for "Harden's" assertion, that those who follow our teachings will

we had begun to think after reading "Harden, Yorkshire," that Yorkshire and Irish pigs were differently constituted as to temper and disposition; but curiosity tempted us to look into "Youatt," the best and most radiable author in the English language on curiosity tempted us to look into "I ouatt," the best and most reliable author in the English language on our domestic animals; and he says, page 116, in his valuable treatise on the pig, "The young ones should be taken away as fast as they are born, and deposited in a warm spot; for the sow, being a clumpy animal, is not unlikely in her struggles to overlie them, nor should they be returned to her till all is over, and should they be returned to her till all is over, and the afterbirth has been removed, which should be done the moment it passes from her; for young sows especially will invariably devour the afterbirth if permitted, and then, the young being wet with a similar fluid, and smelling the same, will eat them one after the other." So that we are led to believe the practice is in vogue in England, and that we certainly are not singular in adopting it.

In our own case, as the sow got accustomed to the removal of her young ones, we had some doubts about her not being careful enough in lying down to suckle them, and that there was some danger of her crushing some of them under her as she did so, and,

crushing some of them under her as she did so, and, therefore, kept them in the basket for three or four days, till they got strong enough to take care of themselves. It is fortunate for "Harden, Yorkshire," and also for some more of our readers, English as well as Irish, that he called in question the propriety of our teachings, as he will now have learned a little more of such matters than he evidently did before.

We should not forget to thank our Ennis subscri-

ber for coming so promptly to the rescue; and though "Harden, Yorkshire," has in his wisdom designated our respected subscriber a "greenhorn" from Ennis, he has in his letter in reply shown "Harden, Yorkshire," that he is not so green as the latter den, Yorkshire," that he is not so green as the latter has gratuitously supposed, but a sound, practical, experienced man, from whom "Harden, Yorkshire," and many others, could gain valuable information, if they would only cast aside prejudice and seek knowledge. But, unfortunately, Englishmen, and Scotchmen too, that do not know us (it is the contrary with those who do) imagine that in Ireland we are a parcel of know-nothings.—Irish Furmer's Gazette.

HIGH PRICE OF COTSWOLD RANS.—We learn from Bell's Messenger that "recently, 54 sheep of the Colswold breed were sold by Messrs. Lyne and Sonfor Mr. W. Lane, at Broadfield, and realized the extraordinary average of £26. 18s. 9d. each. Four of the sheep sold for upwards of £100, each, namely, one purchased by Mr John King Tombs, 110 guineas; another, by Mr. Fletcher, 122 guineas; a third, by Mr. Porter, 126 guiness; and a fourth, by Mr. R. Garne, at 100 guiness. Again at Aldeworth, on the following day (by the same auctioneers), Mr. Brown of Norfolk gave 120 guineas for one sheep, and Mr. Charles Barton 70 guineas for another, the property

Avrshire Cattle.

On this subject, Mr. Sanford Howard, the efficient Secretary of the Michigan State Board of Agriculture, writes to the Prairie Furmer as follows:

EDS. PRAIRIE FARMER: - 1 am glad to see that some of the farmers of the Prairie States are turning their attention to dairying. The Great Northwest comprises many simulations in which butter and cheese may be made to advantage. Persons engaging in this business are of course interested in the kind of stock best adapted to it. In fact. I have lately seen various inquiries from your section in regard to dairy breeds of cattle, especially Ayrshires and Jerseys. On this account I am induced to send you a brief notice of the fine herd of Ayrshires belonging to Hon. Samuel Campbell, of New York Mills, near Utica, N.Y. I have lately enjoyed a re-examination of this herd after an interval of two or three vears.

I am more particularly induced to mention this herd, as persons visiting the eastern cities might with very little delay or trouble, examine it for themselves. By stopping at Utica, they can take a Whitesborough horse car, and go to within a few steps of Mr. Campbell's farm—the trip not necessarily occupying more than the usual interval between trains going the same way on the New York Central railread.

Central railroad.

Mr. Campbell's herd of Ayrshires numbers some Peters, of Massachusetts, is probably the largest herd of this breed in the United States. The older animals, and some of the younger ones, were imported from Scotland, selected without stint in price, from the best herds in that country. The two bulls— Baldy and Tarbolton—now being used in the herd, were imported a year or two since. Both are very fine animals.

The milk from Mr. Campbell's cows goes to supply the operatives in a large manufacturing establishment in which he is interested. No particular measurement of the yield of each cow is commonly taken. In some cases, however, this has been done—the cows being found to give from twenty-five to thirty quarts (wine measure) of milk per day, and in a few instances, thirty-five quarts per day. Many of them would give milk the year round, but it is better for the constitution of the cow, and insures a stronger and better calf, to have her go dry six or eight weeks, and this, is the gangers, heregies.

and this is the general practice.

To show that there is generally no lack of constitution in the herd, I will mention that Ayrshire Lass is now eighteen years old, and has still nearly the vigor and sprightliness of a young cow. White Lily and Lady Ayr are thirteen and fourteen years old. All these are extraordinary milkers, and have usually

Besides Ayrshires, Mr. Campbell has Short-horn cows—nearly as many of the latter as the former. Some of them are imported, and the others are their descendants. They are large and showy animals. In summer they run on the same pastures with the Ayrshires, and the grass being abundant and good, all

shires, and the grass being abundant and good, all have enough to cat. They are fed on the same kind of food in winter—all having what they want.

I was interested in knowing what would be the comparative yield of milk of the Shorn-horns and Ayrshires, under these circumstances, and questioned the herdsman on this point. He replied that the Ayrshires generally gave most milk, notwithstanding that the Short-horns were very much larger and consumed a proportionately larger quantity of food.

It is not often, at least in this country, that the two breeds are thus brought together, and though it is not certain that the same result would follow in a comparison of other animals or herds, the fact slated

comparison of other animals or herds, the fact stated is deserving some weight.

I should say that most of Mr. Campbell's Ayrshires are very handsome, judged in reference to points of merit in a dairy cow.

GYPSUM IN STABLES.—The Germanioum Telegraph says—" Gypsum should be sprinkled daily over the doors and tie-ups, to absorb the ammonia of the urine. The strong odour observable on entering the stable on a morning, arises from the presence of ammonia, one of the most valueble products of stable manner; when properly economized: Gypsum or lime, either slacked or caustic, should also be sprinkled over the bottoms of cellars in the spring. This will tend to purify the atmosphere and prevent many deleterious effects resulting from the presence of macrois. After offects resulting from the presence of mlasma. After a few days it should be removed, and a fresh supply substituted in its place."

Canadian Patural History.

The Common Raccoon.

(Procyon lolor, Storr.)

THE Raccoon is a plantegrade mammal of the bear family, and is from twenty-two to twenty-three inches in length, with the tail about a foot additional. The general color of the animal is grayish white, the long lmirs being tipped with black, and communicating this tint to the body. Upon the top of the head and accross the eyes, the fur is of an exceedingly dark brown shade and upon the knee-joint of each leg the fur is darker in color than upon any other part of the body. The head is somewhat round, the nose sharp and flexible, and the expression of the face much resembles that of the fox.

The favorite haunts of the race on are solitary forests, watered by streams. As regards food, the animal is nearly omnivorous. The eggs of birds, and of the soft shelled turtle, frogs, mussels, oysters, ducks, green corn, spiders &c., are some of the miscellaneous list of dainties on which the cute 'coon reaper, or a fly catcher, as occasion may require. He orangery was robbed day by day. The rinds were formation concerning the erection of balloon frames

is instinctively canning as the fox, inquisitive and meddlesome as the monkey, greedy as a bear, shy as a cat.

The raccoon has generally been supposed to dip its food in water before eating it. From this circumstance the specific name of loter, or washer has by naturalists been applied to it. Some amusing particulars. which illustrate the peculiar habits and mstincts of the animal. are related by an eminent naturalist respecting a raccoon that was confined in a bairack yard in this country. The menagerie, of which the 'coon formed a prominently active member. likewise comprised a bear, an owl, and

denly upon them, grasping them in its hand-like paws. devour the head and afterwards the body in a lessurely manner. There were many bats in the neighbourhood, and the soldiers were in the habit of capturing these noctural depredators, and throwing them on the ground within reach of the raccoon's chain. Before the bat could flap its wings, the raccoon would leap upon it, roll it rapidly in its paws for a while and then despatch it with a single bite."

"It was rather a vengeful animal, and possessed of a tenacious memory for an insult. The great owl that was partaker of the same residence had one day been irritated with the raccoon, and had pecked it on the back. The raccoon treasured the insult in its heart, and waited a favorable time for revenge. The opportunity was not long delayed for on the first occasion that the owl ventured within reach of the raccoon's chain, the aggrieved animal crept slily towards its foe, and adroitly snatched out all the feathers of the owl's tail."

The raccoon is easily tamed, and becomes in captivity a cunning and amusing, though somewhat of a the stomachs of fifteen moles caught in differerent and tenous.

troublesome pet. He is an expert pickpocket, and keeps up an incessant inquisitive activity after sweetmeats. Unlike most animals, he has an innate propensity for fermented liquors, be they ever so strong. In reference to this singular propensity, Lawson, who was Surveyor-General of Carolina in the year 1711 says of the raccoon that if taken young, it is easily made tame, but is the drunkenest creature living, if he can get any liquor that is sweet and strong.

Probably, however, this attributed weakness of the animal for intoxicating bev rages, has been greatly over-rated.

A Singular Species of Rat.

WE take the following curious rat story from the Sydney Morning Herald : -" The orange trees of this colony have been subject to many adverse influences. Sometimes they have suffered from blight and drought; at others they have been roughly treated by flying foxes and peccant bipeds; but a new enemy was discovered a few days ago on the estate of Mr. Josephson, M. L. A., at Newtown. One of Mr. Josephson's dines. He is hence a fisher, a hunter, a trapper, a gardeners observed that a tree in the middle of the

localities, but failed to discover therein the slightest vestige of plants or of roots, whereas they were filled by the remains of ascaris, or earth-worms. M. Weber, not satisfied by this fact, shut up several moles in a box containing sods of earth, on which fresh grass was growing, and a smaller case of grubs and earthworms. In nine days two moles devoured 311 white worms, 193 earth-worms, 25 caterpillars, and a mouse, skin and bones, which had been enclosed while alive in the box. M. Weber next gave them raw meat cut up in small pieces, mixed with vegetables; the moles ate the meat and left the plants. He next gave them nothing but vegetables; in 21 hours two moles died of starration. Another naturalist calculated that two moles destroy 20,000 white worms in a single year.

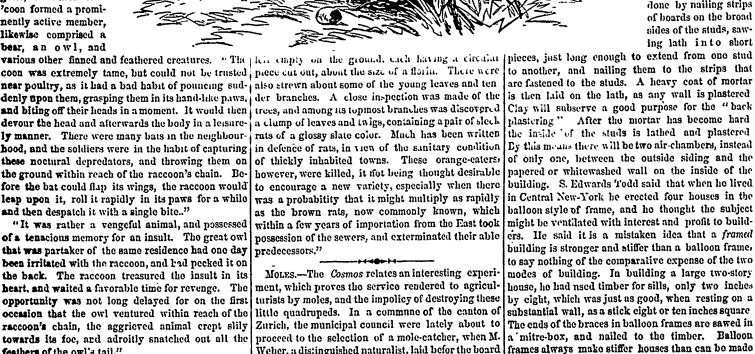
Nural Architecture.

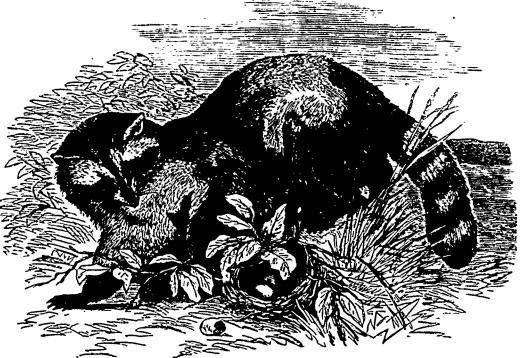
Balloon Houses.

Ar a late meeting of the American Institute Farmer's Club, the subject of Balloon Houses was brought up by Solon Robinson, who read a letter asking in-

for dwelling houses.

Mr. Robinson stated that he now dwells in a house built on the balloon style of frames, the largest stick of upright timber in the building being only two by four inches square He had adopted the practice, now in vogue in many other localities, of "back lathing and plastering," which is not only a most effectual way of rendering a house warm in winter and cool in ho, weather but the back lathing renders the house much stiffer than all the braces that could be put into the frame. The "back lathing" is done by nailing strips





coon was extremely tame, but could not be trusted, piece cut out, about the size of a florin. There were near poultry, as it had a bad habit of pouncing sud- also strewn about some of the young leaves and ten der branches. A close inspection was made of the and biting off their heads in a moment. It would then trees, and among us topmost branches was discovered a clump of leaves and twigs, containing a pair of sleck rats of a glossy slate color. Much has been written in defence of rats, in view of the sanitary condition of thickly inhabited towns. These orange-eaters, however, were killed, it not being thought desirable to encourage a new variety, especially when there was a probabitity that it might multiply as rapidly as the brown rats, now commonly known, which within a few years of importation from the East took possession of the sewers, and exterminated their able predecessors."

> Moles.-The Cosmos relates an interesting experiment, which proves the service rendered to agriculturists by moles, and the impolicy of destroying these little quadrupeds. In a commune of the canton of Zurich, the municipal council were lately about to proceed to the selection of a mole-catcher, when M. Weber, a distinguished naturalist, laid befor the board | frames always make stiffer houses than can be made the following facts. M. Weber had carefully examined by simply framing the timbers together with mortices

Uritish Gleanings.

The "Marie Ring" at the International Horticultural Exhibition.

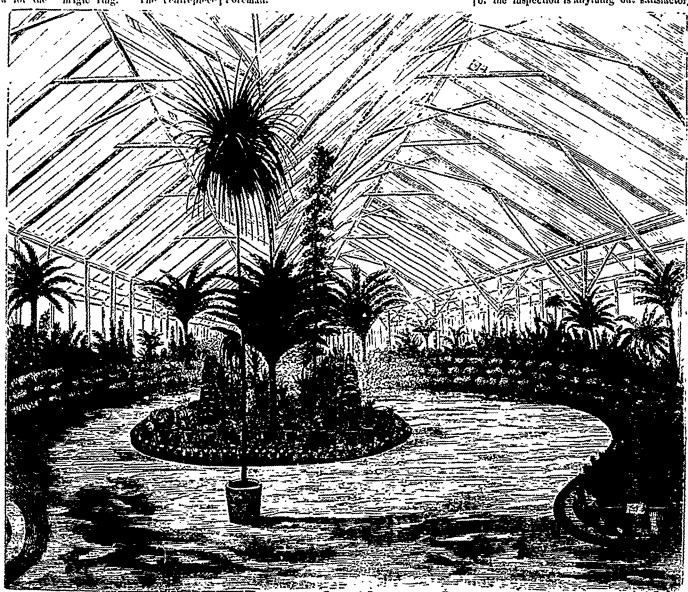
Is our issue of July 2nd, we gave some particulars or reference to the great floral exhibition, held at onth Kensington, near London, England, from day 22nd to 25th. Herewith we present a beautiful clustration of the centre block and banks of Pelaroniums which graced that magnificent display. I will not only interest and gratify our readers but may probably supply a suggestive bint toward the arrangement of Horticultural Exhibitions in this Province. With reference to the illustration, we canant do better than quote the graphic description given of the scene it represents by the Gardener's Maprica ; "Now for the "magic ring." The centrepiece Foreman."

and the ground between the pots and tubs covered with small plants of Dracman terminatis, making a rich crim-on expering. On the on side is a broad silvery band of Centauros candidissims, and a marginal line of Alyssum saxatile, making a gold line to finish with. The two ellipses are faced with show pelargoniums all around, and that is the main feature as respects colour in this mage ring. There are in all 131 specimen plants, they average three feet each in diameter, all through, some few batches attaining the largest dimensions ever seen; such a display has never been seen before in this country, and it is so so shut in that no other display divides attention with it, and a thousand or more persons can enjoy it together on the ample gravel space enclosed. The exhihibitors of these pelargoniums are Messrs. Turner, Fraser, Dobson, Bailey, Donald, Weir, Shrimpton, and

win the leisure and love of mankind. Let us hope that such results may follow; let us hope that some more lasting good may result from all this effort than the mere gratification afforded by a spectacle. But should this last prove to be the only result achieved -should it be agreed that it was a show, and nothing more, well even then, it was worth the effort, worth the cost, worth the approbation of the thousands who came filled with curiosity, and went away filled with

The Pollution of Rivers-Effects of Sewage on Cattle.

The Leals Mercury states that the River Commission is beginning to inspect the streams of the manufacturing parts of Yorkshire, and that the result of the inspection is anything but satisfactory. The



terlly consists of two elliptic blocks enclosing a circle. This is the lowest part of the ground, and is the most finished compartment in the whole exhibition To say that it glows or burns would be miserable description; all that can bo said is that it is as rich in colour as it can possibly be without overtasking the eye, and it stops at just the point of safety, and there is such a grand and tasteful combination of green with the colour in banks of shrubs specimen paims, tree ferns, and modest m'scellanies, that at every view the eye is delighted with the freshness and purity of the harmonics. The centre bed though not much more than a dot in the plan measures above 35 feet across, so that the walk round is more than as many yards, and the two ellipses have a span of 150 feet each. The centro bed is covered with great it will as it should, and as it can, displace many 1 ss | cholera, those fiets assume a much wider significasubjects, such as dasylirious, palms, and tree forms, Innecent, less healthy, and less costly pursuits that [ance-

The Exhibition of which the "Magic Ring" formed cutire sewage of Leeds, Huddersfield, and Bradford so inferesting and attractive a feature, was in all respecis a success, and marks an err in the his ory of British Horticultural Shows. Henceforth they will be more elaborately got up, and will continue for several days instead of being crowded into a single Among the good results predicted to follow the recent great display of plants at London, the Gardener's Magazine enumerates the following -- Flower shows generally will be improved; that will be one good result. No doubt the general public always in need of wholesome recrea-Cons will look with more favour on flower shows than here ofore. No doubt at all, horticulture will have an increased and increasing throng of followers, and

is emptied into the rivers, and the consequence is that all the cattle grazing on the meadows below the main sewer outlet of Leeds were swept away by the cattle plague. But in addition to the sewage of towns the refuse of tanneries, woollen manufactories, dyeworks, the cinders of steam-engine furnices, and the carcasses of dogs and other animals, are turned into the rivers. In and near Leeds alone two millions and a half of skins are dressed and tunned, both the fluid and solid refuse of which is sent into the river, by means of the sewers and intersecting screams. With such facts before us we need not wender that the death-rate of Leeds is the second highest in the kingdom; and with the daily adv nce of the

Hobse-Flesh Maaket.—We learn from a British exchange that a market for the sale of horse-flesh was recently opened in the Bouvelard d'Italie, Paris. The price is one third that of beef.

WOOL SHIPMENTS FROM AUSTRALIA.—According to Clough's Circular and Pastoral Advertiser of March 23d, the shipments of wool from Victoria, mainly to England, from the 20th of October 1865 to March 10th 1866, foot up an aggregate of 27,976, 444 lbs., valued of \$9.474.605.

Dogs and the Rinderpest.—We learn from The Farmer (Scottish) that "an interesting and valuable experiment has been for some time past on trial at the Royal Veterinary College at Camden Town. A number of healthy dogs have been fed upon the most diseased portions of cattle which have died of the Rinderpest, some of the meat having been given to them raw and some in a cooked state. The result of the experiment has been that the dogs are fatter and healthier than ever."

The Paris Exhibition.—An extract from the London Gazette, of the 26th ult., has been published-giving an account of the regulations respecting the nature of the awards and the composition of the juries appointed to the Paris Universal Exhibition, 1867. By this it appears that £32,000 will be given in prizes, awarded by international juries; of this sum £4000 is appropriated to the arts section, in 17 grand prizes of £80 each; 32 first prizes of£32 each; 44 second prizes of £20 each; and 46 third prizes of £16 each. The distribution of the above will take place on the 1st of July next. Jurymen may compete for these awards.

Extraordinary Vitality of Seed Peas.—A recent issue of The Farmer (Scottish) contains the following: "Three years ago Mr. John Hill, tailor, of Dulverton, Somerset, received from his sister, who resides at Pontypool in Wales, three single peas, taken'from a bottle found buried in an old ruin near that town. The bottle contained a parchment, from which it appeared that it had been deposited there 200 years before. Mr. Hill planted the peas, and in his garden plot the produce may now be seen, a most luxuriant crop of gigantic peas, the stocks much above the usual height, and covered with very light green semi-transparent pods of enormous dimensions, one of which measures 5½ inches in longth and 3 in circumference, another being 7 inches long and 1½ wide."

USEFUL MACHINES.—In the monthly scientific notices in Chamber's Journal is mention of the conversazione of the Institute of Civil Engineers, at which some interesting models were shown. One was a sewing-machine which will stitch the stiffest leather, thick boot-soles, and harness with almost as much facility as woollen cloth. Another sews leather gloves. An hydraulic coal-cutting machine, with a supply of 30 gallons of water a minute, at a pressure of 300 lbs., will do as much work as twenty men, and with satisfactory economy in the produce of coal as well as of labour. The machine represented by the model is at work in a mine near Leeds, and when once supplied with water it keeps going, using the quantity over and over again as long as may be desired, making 25 strokes a minute, with but little noise, friction, or dust. It runs on the rails laid in the mine, and by the mere pressure of the water will cut a length of 40 feet per hour, and is so simple in construction that an ordinary miner can work it with but little of the risk to which he is commonly exposed. The cost of labour for coal dug by hand is 8d. a ton; with the machine it is from 3d. to 5d.

STEEPING FLAX.—The following extract from a letter of Mr Haymans Hye, British Vice-Consul at Ghent, dated June 21, recieved from her Majesty's Secretary of State for Foreign Affairs, was read at a recent council meeting of the Royal Agricultural Society of England:—

"The new system of treating flax consists in planting elm trees round the ponds or along the ditches in which the flax is retted; when the leaves fall they are gathered and thrown into the water, where of course, they decay, which impregnates the water, and gives the flax a more even colour (as, it is called, silvery blue), and renders the fibre softer and silky. When the ponds and ditches become almost dry they carefully take out the first layer of mud, and place it in heaps on the sides, which is again thrown into the water when the retting season returns, and thus repeated every year. As colour and softness increase its value so considerably, and as the method of producing those qualities, appears so simple, the information given by Mr Haymans Hye may perhaps be of much interest."

"Who Makes Flour for Her Majesty?" Asks The Furmer.—"What farm grows the corn, what miller grinds it before it reaches the hands of the Queen's baker! Now, as an Englishman is made up of many nationalities, so the bread on which he lives must owe its strength to one country, its sweetness to its own, its manufacture often to a third. Although the royal arms may figure on several miller's bill-heads, it is generally understood that Messrs. T. & C. Kingsford, of Mark Lane, as agents to a French maker of Grueaux flour, supply the greatest quantity of flour used in Her Majesty's household. But other flour—the finest, whitest, creme de la creme of flour—is also used in the royal palaces, and this comes from where just now much attention is now directed—Vienna. At the Great Exhibition we saw for ourselves that the Austrians could print the best maps in the world, but our knowledge is only one day old that their manufacture of flour can challenge that of every other nation. M. Gustav Hannak, Bohemia, obtained in 1862 the prize medal as manufacturer of the finest Vienna flour. This is sold on the old market by his London factors, Messrs. Burrows & Perks, and finds its way from them to Buckingham Palace, to the West-End clubs and hotels, and those households where the cooks need not spare expense. After this Vienna flour, Hungarian and French grueaux rank next: much of the former is made at Buda, Pesth, with patent steel rollers."

WEATHER WISDOM.—In a recent issue of the Mark Lane Express is a long communication on this subject, from which we extract the following: "Amongst many weather-proverbs, the following come to my recollection, and as their paternity is unknown, we may even credit the Druidical Priests with their origin, viz.:

viz.:

"If red the sun begin his race,
Expect that rain will fall apace.
The evening red, the morning gray,
Are certain signs of a fine day.
In the waning of the moon,
A cloudy morn, fair afternoon,
When clouds appear like rocks and towers,
The earth's refreshed by frequent showers.
If woolly fleeces spread the heavenly way,
No rain be sure disturbs the summer's day."

"A rainbow in the morning,
Is the shepherd's warning.
A rainbow at night
Is the shepherd's delight."

The shepherds of the Kyle division in Ayrshre draw an indication of a change of weather from observing the mountains in the Isle of Jura, distant some seventy miles. When seen from the plains of Kyle, like twin cones formed by an azure cloud, rain is expected.

Grot., in his antiquities, gave the following weather note respecting Penline, Glamorganshire, viz.:

"When the hearse waves of Severn are screaming aloud, And Penñue's lofty Castie's involved in a cloud; If true the old proverb, a shower of rain Is broading above and will soon drench the p'ain."

Barbarous Outrage on Sheep.—The Warder (Dublin) of the 30th ult., contains the following account of a barbarous outrage perpetrated on some sheep, in the county of Dublin.

secount of a barbarous outrage perpetrated on some sheep, in the county of Dublin:—

On the morning of the 26th inst., William Taylor, of Woodside, on the border of Ticknock Mountain, found 35 sheep of his either dead or dying, although on different farms—some on Colonel Verner's land, others on his own up the mountain. Although there were 400 sheep belonging to other persons on the same hill, they all seemed healthy. Taylor, it seems, had taken some land from which another person had been ejected. For this he had been threatened about a month ago, during the night, by some persons who broke the windows of the house in which he was residing. Strong suspicions were entertained that the sheep had been poisoned in consequence of Taylor having taken possession of the land in question. The investigation was entrusted to Professor Ferguson, of the Veterinary Department of the Privy Council. Five of the dead sheep were sent into him. The following is his report to the Government.

sheep had been poisoned in consequence of Taylor having taken possession of the land in question. The investigation was entrusted to Professor Ferguson, of the Veterinary Department of the Privy Council. Five of the dead sheep were sent into him. The following is his report to the Government.

"I beg to report to the Under-Secretary that, according to his instructions, I have superintended the post-mortem examination of five sheep, the property of William Taylor, farmer, Woodside, county of Dublin. These animals were five out of thirty-five that died on yesterday, it was thought from poison. On opening them there was found great effusion of blood into the thoracic and abdominal cavities, the viscera of which were wounded in several places, the wounds in lungs, intercostal muscles, diaphragm, liver, stomach and bowels, presenting a punctured appearance. On examining the skin, to ascertain where the instrument had entered to inflict the internal wounds, it was found to be entire. On tracing the direction of the internal wounds from the chest backwards, it was found that they led to a large puncture in the rectum within the anus. At the latter part the instrument had been evidently inserted and pushed forward for the purpose of killing the animals without leaving any external marks of violence.

BLOOD STOCK IN AUSTRALIA.—We learn from a British exchange that "a wonderful sale of racing stock is reported to have taking place in Australia, which throws even Mr Blenkiron's last and greatest success into the shade. Some years since, Mr Hurtle Fisher, who lives near Melbourne, at Maribyrnong, imported from this country a number of our best horses and mares; among them Mr Parr's Fisherman and Mr Hawke's Marchioness. On the 10th of last April the Maribyrnong stud was sold by auction. Forty-three horses, of which nine were yearling colts and eight unweaned filly foals, fctchcd £26,305, rather more than £600 each. The nine yearlings fetched 5055 guineas—502 guineas cach; 11 horses and mares in training 11,540 guineas—2049 each; 14 brood mares, 7080 guineas—506 guineas each; and eight unweaned fillies, 2110 gui 1eas—263 guineas each, A four-year old colt by Fisherman—Marchioness fetched 3600 guineas. In spite of the horrors of democracy. Australia cannot be such a bad place after all."

BRITISH CROP PROSPECTS .- The Mark Lane Express of August 6th, thus discourses on this subject :- The past week has brought us into the midst of our cereal gatherings for the midland and southern counties. Heavy showers have already fallen and some damage been done in the north by laying, and delay must necessarily arise from the quantity of wet, but no serious amount of damage as yet appears in our reports. We are, however, reminded that the broken weather may be the forerunner of disasters, and also learn not to be unduly confident. Already a taint is upon the crop of potatoes in some localitics, and a further heavy fall with warm weather might produce the dreaded disease in force. The late heavy decline, partly occasioned by the prospect of peace in Europe, being excessive on small stocks and but moderate been prospected by the prospect of the late heavy decline, being excessive on small stocks and but moderate prospects, has brought about some reaction, and a general gain of about 1s. per qr. has to be noted in the country, though London has lagged behind, finding that the previous rise has brought larger foreign supplies. As France proceeds in her gatherings, she is less content with her wheat crop, and Paris becomes dearer, while the north-eastern provinces exceed the capital in the demand for and value of wheat. Everything indeed at harvest time is in danger of being rose-colored; and those who leave the city for the country—whether in Britain or elsewhere—make well-stored garners of their bright imagination, and so there is plenty in prospect, as certainly as that they have seen sheaves in the field. Those, however, who pay for the acre and the toil, as well as share in the anxiety, can make a more practical summary of the result, and we do not find here, any more than they do in France, that we have a full average upon the ground, much less in the barn."

THE MYSTERIES OF THE MEAT TRADE.—The London correspondent of a local newspaper writes on this subject as follows :-- "Before the committee on 'The Trade in Animals,' some of the leading butchers of London and other great towns are now giving evidence. I was present the other day when a swell butcher from the West End was under examination-He was a very intelligent tradesman; but his Cockneyisms-especially in the way of predilection for the letter 'H'-were very amusing. He would call an ox a hox; and in double negatives he was accomplished and emphatic. An honourable member having asked him whether he could buy dead meat in Newgate Market as cheap as he would have it if he had slaughtered the animal himself, he replied, 'Well, that depends. Now, if it's a hox you mean, this week I may go into Newgate Market and buy a hox, the meat of which I should have cheaper than if I had meat of which I should have cheaper than if I had killed the hamimal myself; but next week the same hox might be dearer to me in Newgate Market.' What,' asked an honourable member, 'do you now charge for beef, say sirloins?' 'Well, that depends; if I cut it along, I can do it at nine a-half; but, suppose you say, what many gentlemen do say, I won't have no suet, then I must charge eleven. It's the same with a piece of salt beef. If you say, I won't have no fat, and I won't have no bone, why then I must charge more.' Another hon. gentleman asked the witness whether he did not think that private slaughter-houses were likely to be less clean, and slaughter-houses were likely to be less clean, and therefore more unwholesome, than public ones? The aristocratic knight of the chopper and steel replied, 'I do not, sir. I sometimes have occasion to enter the dwellings of the lower classes, and I can say they are not as sweet and wholesome as my slaughterhouse. On the contrary, I assure you, the dwellings of the lower classes are positively stenchable.' The hon, interrogator was shut up by this marvellous display of sanitary knowledge.'

The Dairy.

Cheese-Making in Gloucester.

is the regular Gloucester dairies the cheese is made thin eight of them only weighing one hundred and twenty pounds. They are made twice a day they commence at seven o clock in the morning and they commence at seven o'clock in the morning and mush about ten to eleven o clock. In the afternoon they commence with the evening mulk about five and finish again between eight and nine o'clock. These cheeses have a name in the cheese-consuming world as the famous Berkley cheese. They are rich and weet, if made well. The makers of these are quite as tenacious of their reputation as those who make cheese worth from ten to twenty shillings per cwt. more money. Cows are kept more or less over the country generally, except on the uplands. The south and southwest around the neighbourhood of Bristol, are the coal meadows. The district is formed not the best in the world, from various circumstances; being in the coal district, the surface is uneven, and the enclosures small, as the farms also are. Besides. the enclosures small, as the farms also are. Besides, it is near Bristol, to which place hay, straw and mi'k are continually sold - X. A. Willard's Letter from

Some Eyes in Millen Cows.—The following enquiry is submitted to the Editor of the North British Agriculturist, by a correspondent:—"I have been very much troubled this last week with my mileh cows taking sore eyes. The first appearance is water running from the eye, the ball of the eye is a little inflamed, then a white skin grows over the sight of the eye; some of them are slightly affected, others get entirely blind. I can give no reason for their being so seized, they appear to be in good health otherways. Your opinion would oblige.

To which the Editor replies as follows. From sudden alterations in the weather, from cold winds, and occasionally from atmospheric causes which we

and occasionally from atmospheric causes which we cannot yet explain, colds from time to time appear cannot yet explain, cous from time to time appear alike amongst men and animals. Throughout a considerable district, numbers of horses, perhaps in a single week, will be seized with influenza or sore throat. In like manner colds come suddenly and a single week, will be seized with influenza or sore throat. In like manner colds come suddenly and without any apparent cause amongst cows. Sometimes the udder suffers especially, becoming hot and tender. Probably from similar causes, the eyes are attacked, as in the cases you mention. Possibly other herds in your neighborhood are suffering in the same way. Such ailments are sometimes popularly stated to depend upon "a blight." Often they disappear as suddenly and unexpectedly as they came. The best treatment for appearances such as you describe will be to keep your cows in the house or yards so soon as you find them to be failing; give them a dose of opening medicine, such as a pound each of Epsom salts and treacle, with two ounces of ginger, mixed up and dissolved in half a gallon of tepid water; batho the affected eyes twice daily for fifteen minutes with tepid water; and when the eye gets hazy, or "the skin" of which you speak appears to obscure it," moisten it every morning with a manel's-hair brush, wetted with a solution made by dissolving ten grains of nitrate of silver in an ounce of water. If the cows are in a poor condition, a daily allowance of linseed cake will benefit not only the eyes but the general health."

Loultry Aard.

The Coming Provincial Exhibition, Hints on Judging Poultry.

To the Editor of the " CANADA FARMER."

Sin,-As the great Agricultural Exhibition is to take place next month, perhaps you will allow me to offer a few observations with relation to that essential but so generally neglected portion of farm stock, l'oultry. In the old country, as they call it, l'oultry Exhibitions have done wonders, to supply the market with first class poultry and why should not the same returns be found here? Even the handsome prize list of the Society fails to bring forth in many cases even respectable birds-a few hints to exhibitors of what the points &c., in the birds to be shown, may not therefore be useless at this season, the more so as a spirited farmer of Toronto has offered a handsome prize for the best pen of birds. A possible

just award will not be arrived at unless the points are particularly noticed by the Judges, and then it will be a most difficult thing to decide upon. The list begins with. -

Donaings, size essential- combs immaterial, but in birds in the same pen, legs white with good distinct fine claws- color is not important, but there should be no glaring contrast. Cocks with black, or black and white head, and tail light backle and raddle. Hens slate color, ash cobweb speckled with brown and black any color bix black and white.

POLANDS.-Black lustrous plumage top knots white as may be without trimming, close and compact, leaden blue legs, full tails, and straight even beaks-the cock and hen should have gills, but generally there should be no comb or spikes in front, beard or no beard I should with Mrs. Blair, give my voice against them. Gold and silver Polands must have spangled breasts-in the silver all the tails in the hen should be purely white, topped with black. In golden birds the tail black and the tail covers black in the centro, but having rich orange shades on each side. The Judges will probably handle these birds as they are very subject to be crooked and hump-backed which nould disqualify.

GAME.- Bright red face, strong stout beak, slightly curved, round hard body tapering to the tail; short, round, hard, thigh; stout leg; flat foot; spur low, near the foot; scanty plumage, but very hard; tail scanty, carried rather drooping than otherwise; head moderate in size, but fine, sharp, and snake-like

Counts China.—Large size desirable but not sufficiently important to hide defects; straight and upright combs, sharp heads; well clipped wings, ample flaff and well teathered to the toes, and short, very little tail made up of numerous curly feathers, that seem to roll over the back rather than stand up. The birds must match in each pen, and the white birds must have golden legs.

BRAMMI POOTRA.—Pea or single crest, breast black speckled with white, thigh black; hackle and saddle light; tail black, yellow legs well feathered, deep breast, very full hackle, the hens body should be delicately pencilled all over. In the light varieties the cocks and hens are alike, the tail and flight feathers black, and the hackle black striped, the rest of the plumage white.

Spanish.—Perfectly upright comb for the cock, falling over for the hen. Thoroughly white faces, without mixture of red, perfectly black plumage, legs large and blue, size desirable not essential.

Hamming-Double combs, full of points ending HAMBURG — Double combs, full of points ending in a stout pike turning upwards, and fixed firmly in the head, not hollow in the cratre, small ample tail, with feathers pencilled to the points, hackles spotless if possible, legs blue. In the spangled variety, the breasts should be well spangled, full black tail in golden and quite white, with a black point at the extremity of each feather in the silver birds and the backle of the silver cocks, should not be shaded or clouded as in the golden Black birds shaded or clouded as in the golden Black birds should be of one colour.

should be of one colour.

CREVE Cœur.—Cock voluminous, body squarely built, short well seated on solid legs, back almost horizontal and standing but little towards the tail; thighs, legs, and wings, well developed; short limbs; very large head, topknot, whiskers, and beard; double comb shaped like horns, sometimes parallel straight and fleshy; sometimes joined at the boll, slightly uneven, pointed and divided at the top, whisker very thick and beard very ample and failing below the wattles. Hens well shaped square body, topknot black, in a pullet whitish, in a hen after second moult beard, ear lobes, short and hidden, comb, and wattle short; should weigh 61 lbs. to 8 lbs.

Sebrigit Bantams.—Cannot be too small, free firm hackle and saddle, clear tails, and accurately laced

It would coupy too much of your space to go into detail as to the points of Pigeons, but I shall be most happy so to do if you require it, and I conclude by hoping these hints may be of use to younger exhibitors in the selection of their stock, which is my sole object in having trespassed on your valuable space. I am &c.,

A POULTRY FANCIER.

Note By Epiron C. F .- We shall be glad to receive our esteemed correspondents' communication on pigeons. At the same time, we take the liberty of requesting him to write a little more legibly, and only on one side of the paper.

Teterinary Department.

Ringbone in Horses.

RINGBONE, as it name indicates, consists of a ring or circle of bony matter extending round the coronet. Most commonly it is laid down around the lower part of the large pastern bone, but in all bad cases the small pastern bone is likewise involved. The swelling is very distinctive, and can hardly be mistaken for anything else. It is hard and unyielding, and although at first occurring in separate points, it gradually extends round the sides and front of the coronet. Sometimes it passes downwards, implicating the lateral cartilages, and constituting sidebone. It is always apt to increase, especially when the horse continues at work on the road, and sometimes becomes of large size, interfering with the movements of the joints. Out of 150 ossific diseases in the region of the fetlock, Mr. Percival found sixtythree cases of complete anchylosis, including five of the fetlock joint, forty of the pastern joint, and eighteen of the coffin joint; whilst the remainder consisted of bony incrustations of various degrees of eighteen of the coffin joint; wh.lst the remainder consisted of bony incrustations of various degrees of severity. When the horse is much used on the stones during the early development of ringbone, the fetlock is apt to become hot and tender, and the animal goes lame. In the large proportion of cases the bony matter, however, is laid down gradually without causing much pain or any notable lameness. A certain degree of stiffness is, however, usually observable. Whether causing lameness or not, ringbone constitutes unsoundness. As it is apt to be hereditary, animals with such exostoses should be avoided for breeding parposes.

Like most other only deposits, ringbones generally result from concussion. When this is frequent or continued, infimmmation is set up in the periosteum and underlying bone, giving rise to the outpouring of plastic lymph, which is gradually converted into bone. The jar is obviously greatest where the pasterns are short and upright, and underbred animals of such conformation furnish a large proportion of cases of ringbone. It is common in the force limbs of heavy horses, and of high-stepping hacks and carriang heaves the tillimite and the first limbs of the pastern the first limbs of the pastern that the properties the pastern that the paster

cases of ringbone. It is common in the fore limbs of heavy horses, and of high-stepping hacks and carriago horses; but it likewise occurs in the hind limbs particularly of the lighter description of horses. Professor Spooner states that horses with small feet are especially subject to ringbone. From a blow, tread, or other such injury, inflammation of the periosteum is sometimes established, leading, like the concussion of hard work, to bony deposits. When depositing upon such eases ringhous is ant to be depending upon such cases, ringbone is apt to be confined to one limb.

thighs, legs, and wings, well developed; short limbs; very large head, topknot, whiskers, and beard; double comb shaped like horns, sometimes parallel straight and fleshy; sometimes joined at the boll, slightly unvern, pointed and divided at the top, whisker very thick and beard very ample and falling below the wattles. Hens well shaped square body, topknot black, in a pullet whitish, in a hen after second moult beard, car lobes, short and hidden, comb, and wattle short; should weigh fellbs. to 8 lbs.

Sebright Bantams.—Cannot be too small, free firm hackle and saddle, clear tails, and accurately laced feathers, drooping wings, full pointed pike combs pike going upwards.

Black and White Bantams.—Small close feathered, with long and full tails. The Black should have white ear lobes, combs, should all match in a pen.

There s.—Should be as large as possible and all match in the same pen.

Geese—Also, heavy; the White Embdem, should have pale bills. Turkoys and Geese are generally, if porfect in other respects, judged by weight.

Ducks.—Aylesburg ducks should be heavy with pale bills and orange legs, and white plumage. Roossible and large as possible and large as possible

bread, besides the weight of the hive. Where moveable comb hives are used, the honey may be easily divided among the stocks by exchanging cards of comb giving to all an equal portion.

of comb giving to all an equal portion.

It is bad policy to feed stocks in the winter when it can possibly be avoided, as bees winter much better for not being disturbed. Entrance to hives should now be contracted so as to prevent robbing and weak stocks should be well watched. Queenless stocks are almost sure to fall a prey to robbers, and if there seems a determination on the part of the bees to rbb any one stock, it is pretty good evidence that such a stock is queenless, and if in a moveable comb hive it should be examined, and a queen given it, if necessary. Queens may often be obtained from those stocks that are to be taken up, as many people still take up weak or late swarms instead of uniting them.

Apiarian Experiences.

To the Editor of THE CANADA FARMER.

Sm,-I am pleased to notice that you are taking an interest in apiculture. In the spring of '63 I commenced with one hive, without any previous knowledge of the habits of bees, and from being surrounded by bee-keepers, all satisfied with and determined to continue the old plan of management, I have had to grope along in the dark, without any other information than that derived from reading, never having yet had the advantage of seeing any operation performed with bees. Not knowing any thing better, I made Langstroth No. 1 hives, and as soon as the swarming season was over transferred the present stock to one of these. My next object was to obtain possession of an Italian queen and this I did in September last. I last season got only one small box of honey from the old hive before swarming. The Langstroth hives are large, holding ten frames each, 171 by 85 inches and I thought they did well in stocking these large hives. Not being able to watch constantly I have been desirous of practicing artificial swarming but as yet find some difficulty in the matter. How are we to be sure our early swarms will not cast swarms again? I am afraid I lost an Italian swarm this spring from that cause. I made a swarm 30th May and on 27th June I found a queen cell and every indication of its having swarmed. The plan given at page 234 appears very simple. Langstroth given at page 234 appears very simple. Langstroth says "A story which may seem to plausible as almost to amount to positive demonstration, when put to the working test, may be encumbered by some unforeseen difficulty, which speedily convinces even the most sanguine that it has no practical value. It is one of the laws of the hive, that bees which have no mature queen seldom build any cells except such as are designed merely for storing honey, and are too large for the rearing of workers. When all goes right it is usually from two to three weeks before any eggs are laid in the mother stock; and when the most sanguine that it has no practical value. It is one of the laws of the hive, that bees which have no mature queen seldom build any cells except such as are designed merely for storing honey, and are too large for the rearing of workers. When all goes right it is usually from two to three weeks before any eggs are laid in the mother stock; and when the brood left by the old queen has all matured, the number of the bees will so rapidly decrease, before any of the brood of the young queen hatches, that she will not have a fair chance seasonably to replenish the hive." Thus by the plan there given we may

Management of the Apiary for September.

(m. J. H. Thomas.)

All honey boxes containing honey should not be removed. Examine all stocks and see that they have plenty of honey to carry them through the winter. About 30 lbs., is required to winter a strong stock safely. Weak stocks may be joined together, also late swarms, giving them all the honey they may have made.

Stocks that have not the above amount of honey should now be fed with honey or a syrup made of sugar and water, in order that they may have time to sugar and water, in order that they may have time to amount of honey it should be remembered that from ten to twelve pounds must be deducted for bees and bread, besides the weight of the hive. Where

Yours, &c.,

Note by E. C. F .- We submitted Briar's communcation to our experienced apparian contributor, Mr. J H. Thomas, of Brooklin, who replied as follows :-"In reply to "Briar's" first question, I would briefly say that we can prevent early made swarms from swarming again by cutting out the queen cells and removing an outside card of comb, giving them an emp y frame. Or if Italians and the swarm was made as early as the 30th of May, we may divide again making another swarm. Swarms are made by dividing a stock which is called artificial swarming or making swatms.

There is but little doubt that "Briar" lost a swarm as he supposes from that cause, that is his early made swarm. (20th May,) swarmed again.

The apparent difficulty which " Briar has found in artificial swarming would be removed, as he suggests by "introducing a fertile queen." He asks, "but wilt they receive one "Certainly, if introduced in the same or somewhat the same manner that he would introduce an Italian queen. But the difficulty "Briar" finds is only apparent. After removing the two frames from the old stock which he wishes to divide or make a swarm from, the remaining frames should be placed together in the centre of the hive and the two empty frames, to replace the two removed ones, placed on the outside of the others next to the walls of the hive. If then the bees build store-comb it does but little or no harm as they soldom require the outside combs for breeding purposes but use them

does but little or no main as an outside combs for breeding purposes but use mem principally for storing honey.

"Briar" labors under quite a mistake in supposing that hives should not be disturbed from which we wish to get surplus honey. If a moveable-comb hive is properly constructed, the stock in it may be examined at any time without materially retarding the laying in of surplus honey. The honey box should not be removed from the honey hoard—both should be taken off the hive together as gently as possible when the comb builders will often continue their labour as if nothing had happened, and so soon as replaced the honey gatherers will rush in and deposit their honey as before. I can give no better description of the beemoth than is given by Langstroth. The larvee of the moth than is given by Langstroth.

as before. I can give no better description of the bee-moth than is given by Langstroth. The larvæ of the bee-moth or miller grub as it is often called, vary in size according to the amount they have to feed upon. There is a bee journal, monthly published in New York called the American Bee Gazette, price \$1 a year, Am. cy. The first number was issued in June last. I now have August number or No. 3. Address E. Van Slike. Editor and Proprietor. Office Am. Bee Jast. I now have August number or No. 3. Address E. Van Slike, Editor and Proprietor, Office Am. Bec Gazette, 180 Broadway, New York."

Entomology.

War on the Curculio.

The report from the Oncida Community, in "The Circular." says :- Two squads of infantry, each consisting of six men. including officers, have been detailed for the extermination of the curculio, and are making systematic raids every morning. Sunday morning, May 20, they left 413 dead on the field. Monday, 560. Tuesday the number of killed and prisoners was 413. A few burly specimens were brought home in a phial and put on public exhibition after which they were sent to execution. Wednesday a cold rain prevented the raid. This morning, May 23, though cold, the raiders started at the usual early hour, and had the satisfaction of killing one curculio. We presume they must have felt somewhat as Percy did when, after having "killed some six or seven Scats at a breakfast," he washed his hands, and said to his wife: "Fyo upon this quiet life! I want work.' People who want plums should follow this example.

The Similarity of the Insects of Canada and England.

Ox comparing collections of British insects with those captured in this country, we have been frequently surprised at the very great similarity, and oftentimes identity, that subsists between them. The following remarks by Dr. Jordan. of Birmingham, in a late number of the Entomologists' Monthly Magazine, afford some further evidence on this interesting sub-

"On receiving lately a box of Lepidopterous insects from an entomological friend in Quebec, it was impossible (he states) to help being struck at the first glance with the great similarity between them and our British species. Sixty-six species were sent to me (the only selection being that when an insect was known by my friend to be English it was excluded): of these no less than ten may be classed as cluded); of these no less than ten may be classed as decidedly common to the two countries. On the other hand, there were eighteen only without any English generic ally; and in making this selection a rigid exclusiveness has been observed. The remaining thirty-eight are generically related to our native species, and in many instances the approximation is so close as to suggest specific identity also. cluded); of these no less than ten may be classed as

It is the business of entomologists to deal with facts, and not with hypotheses, yet the question of how are we to account for this similarity will obtrade itself upon our minds. Naturalization will account for some some part of it, certainly; and the history of this in Pieris rapæ has been most admirably traced out by the friend to whom I am indebted for the very specimens now under discussion. Mr. Bowles; thus the Vanessa and Scoliopteryx may be brought over whilst in their winter sleep, and awake in a new country, there to deposit their eggs, but Mclanippe hastata and Scotosia undulata at least would be difficult to account for on any theory. If there was a distinct centre of creation for the two countries, we must either suppose that undulata was created alike in both regions, and Nature reproduced herself, or else if we turn Darwinians for the nonce that undulata was "developed" in both regions. Now it seems to me that if we are to take two cells or germs as our starting points, it is but an N'th chance where N is infinitesimally small) that any process of It is the business of entomologists to deal with germs as our starting points, it is but an N th chance (where N is infinitesimally small) that any process of natural selection should even develope the same order, *Lepidoptera*, in both the centres. How utterly impossible, then, must it be that they should both develope the same species!

If, on the other hand, the Continents were ever continuous, we have then in our friend undulata that often quoted individual "the oldest inhabitant," and often quoted individual "the oldest inhabitant," and a thorough-going Tory he seems to be, for not a spot or speck is changed on his coat, though he must have lived under different climates and under different circumstances in the two countries from those old days when mammoths were plentiful as blackberries, and long before the time when Adam was a little have. boy.

Seriously speaking, however, the undulata must teach us how vain at present is any attempt at a theory of creation, and how difficult to reconcile with the facts around us. We feel how little we do know, and how truly Tennyson speaks when he calls man—

An infint crying for the light, And with no lenguage but a cry,"



Something More About Pianos.

To the Editor of the THE CANADA FARMER:

Sm-My attention has been drawn to an article in THE CANADA FARMER of July 16th, headed " Something About Pianos"-and as that article reflects upon the honor and integrity of musical professors, allow me to say a few words in reply. In looking at the spirit of the article referred to, I

cannot help feeling that it is prompted rather in the interest of dealers, who wish to pocket a professor's rightful commission, than with a wish to guide as to the best course to pursue when a Piano is to be purchased. The article copied by you from the Boston Journal truly says, that "as there are truly a number of Pianoforto makers who all profess to make the best instrument, it is very difficult for a buyer (except advised by a thorough and high Istanding musician or mechanic who cannot be influenced by mercenary considerations) to choose between them. It should be a well known fact, that the most respectable Pianoforte manufacturers, both English and American have printed price lists, descriptive of the several kinds of Piano made by them, the price of each being marked in plain figures. These manufacturers invariably allow a commission to all professors. agents, and dealers for all sales effected by them, or by their influence, even if they have not been seen in the matter. No extra price is paid by the buyer on account of this commission, as is stated in the article referred to; but the reduction is made to professors, agents and dealers upon the same principle which is practiced in every branch of trade and commerce. Ashoemaker can buy leather cheaper than a private individual. Surveyors, lawyers, and brokers have commissions and fees for all they do, and why should not musicians and music dealers have the same privilege in the exercise of their profession? Those who will buy pianofortes without professional advice, must run the same risk as those who will buy land without having the title examined, they may think they are buying of a respectable firm or individual, but they may be taken in. It is the duty of a musical professor to be acquainted with the differential professor to be acquainted with the differential professor to be acquainted with the differential professor. ferent styles of pianofortes manufactured by the several makers, and his experience enables him to look for and discover the good and bad qualities of a musical instrument. It is the profes. "b judgment alone which can be relied on if a good pane is to be secured, and if he be an honorable man, he will prosecured, and if he be an honorable man, he will protect the purchaser from imposition, while if he be inclined to act a dishonest part, he cannot succeed in a matter of this kind without the collusion of the a matter of this kind without the collusion of the dealer, who if he will impose with the aid of a professor, will not be the less likely to do so if there be none. If there be any doubt in the matter, the safeguard is in the printed price list, which should be always referred to, if the price of each instrument is not marked upon the safe the wide in plain figures. it. as it should be, in plain figures. No respectable firm will charge an additional dollar to pay a professor or dealer a commission, the manufacturers allow liberally for this, and it is only an imposition to state the contrary.

JOHN CARTER, Organist, St. James' Cathedral. Toronto, August 23, 1866.

PRIZES FOR CHEESE AT THE PROVINCIAL FAIR. The appended remarks of Mr. J.W. Fearman, of Hamilton, with respect to the awards offered to cheeses at the coming Provincial Exhibition are entitled to considcration: -"I noticed in the prize list of the Provincial cration:—"I noticed in the prize list of the Provincial Agricultural Association that there is no prize offered for small sized factory cheese. I consider there should be as my experience of over 20 years in the cheese trade is that good small cheese sell the best. I would also take the liberty to suggest that a prize be given for pine apple cheese, also English dairy. The large size of the factory cheese excludes them from a great portion of the grocery trade of this country."

enquires where he can purchase a Flax Pulling Machine He desires further to ascertain its cost; the number of acres per day that can be harvested by whether it accomplishes its task satisfactorily.

Ans. Such a machine is a desideratim, we do not know of one.

LARGE BLACK SPANISH Edg .- Mr. James Spiers of Beachville has forwarded to us an unusually large egg, laid by a Black Spanish hen. It measured 74 inches the longest circumference, and 6} inches the shortest circumference. Weight 4 ounces. On breaking it. we found that it contained a double yolk: Such unusuallylarge eggsare generallydouble-volked-We may observe that the Black Spanish breed of localities fall wheat was badly winter-killed, and in fowls though rather small sized birat, lay, on an average the largest eggs of any fowls known. The Cochins or Brahmas will outnumber them, but the Spanish will produce the greatest weight of egg

SCPERPHOSPHATE OF LIME.—"Briar" writes as follows: "At page 161 present year, you say, farmers should manufacture their superphosphate at home-I have not any doubt that many would be willing to do so if they knew how. Would you recommend the adoption of the process there given from an eastern exchange? I shall feel obliged if you will say if you think it worth trying. Here we have for 1,200 lbs. superphosphate, 20 lbs. acid, 40 lbs. Lones, two barrels charcoal, dust or dry peat, and the difference seemingly made up of hen manure. Should we find the same difference in every other respect as in the price of the acid, it will materially enhance the cost. but even then it would be within the reach of all, whereas Coe's or Snow's as directed to be used will cost \$7 per acre. Sulphuric acid is stated to be 5 cents, in Ottawa it will cost \$1 cents to which may be added nearly as much more on the first occasior for added nearly as much more on the first occasion for vessels. For breaking small bones a hammer may vessels. For breaking small bones a hammer may do, but with large ones some other means must be adopted. Should the bones for the purpose be fresh or are old and weather beaten ones, good ?

Ass.-We have no hesitation in recommending the adoption of the process of manufacturing super-phosphate described at page 161. See also the FAMILIAN TALK on "Bone Manures" in our last issue.

The Canada Farmer.

TORONTO, UPPER CANADA, SEPT. 1, 1866.

The Harvest.

The date has arrived at which definite and positive opinions may be ventured in regard to this year's yield of farm products, and accordingly we find in most of our exchanges throughout the province, more or less copious harvest reports. To insert all the extracts we have culled and clipped would occupy too much space, and we can but endeavour to give the spirit of the press in a brief editorial of our own. Indeed to copy the reports in question would be to a great extent, to say the same thing over and over again, for there is a marked similarity about the most of them. Happily, this accord is to the effect, that we are gathering in one of the most bountiful harvests ever vouchsafed by Providence to this or any other country. One of our cotemporaries, the Perth British Standard, reports "an extensive harvest, which is all in all said to be as large as those of the previous four years combined." ther, at the opposite end of the province, the Huntingdon Journal, reports " a yield of the staple crops of surpassing excellence and abundance," and adds:-"Agriculturists have unbounded cause of thankfulness, and little to deplore in the order of nature the present season The Gudph Mercury says of the counties of Grey, Bruce, and Perth, that "the should be nipped by untimely frosts. This fruit yield of this year will exceed anything known deserves wider culture in Canada.

FLAX PULLING. MACHINE.—The Rev. Dr. Freeland in Canada for the past fifteen years." The Chatham Banner says: "The harvest in this county is nearly finished, and so far as we have been able to learn. the yield exceeds anything we have had for eight it; the number of hands required to work it; and or nine years past." The journal just named adds: "A very good idea of the extraordinary prosperity enjoyed by the farmers of this county may be formed from the fact, that between 140 and 150 reaping and mowing machines have been sold here this year. Our exchanges do not all paint the state of things in colours of such glowing hue, as do the journals we have named, but there is a general and pleasing agreement as to the satisfactory character of the harvote of 1866.

> Of course there are exceptional cases. In some others bot's fall and s ring wheat have suffered from the midge; but the fears that were entertained in the early spring as to the gener. I failure of the fall wheat crop have not been justified by the result. In some parts where it was considered to be hopelessly winter-killed, it recovered wonderfully, and has turned out beyond all expectation. The Mitchell Advecate reports "a good yield of fall wheat, both in quantity and quality. One or two farmers have 40 and even over 40 bushels to the acre." In the newer counties we believe the fall wheat is almost without exception good, while in the older counties, there is more or less complaint of it, but the yield of spring wheat and other crops goes very far toward compensating for the deficiency. One of our exchanges gives a doleful recital as to the severity of the winter, the midge. the rain, and now the grasshoppers." These we are told have "vented their spleen on the products of the husbandman, and have certainly diminished the yield to a great extent." We do not name the last quoted journal, for inasmuch as another newspaper account of the crops in the region referred to is of a very different character, we incline to the hope that the melancholy report was written under one of those attacks of the blues, to which Editors as well as other people are now and then subject. In several localities there has been very catching weather, and some instances of injury to out-lying crops are reported by our exchanges. The weather has, however, been cool during the prevalence of wet, and in consequence we hear of but little rust and no growing. Very favourable reports are given as to the flax crop, which is turning out well both as to seed and fibre. The Woodstock Times states that "one gentleman in that neighbourhood, Mr. J. H. Brown, has about one thousand acres of flax, Mr. Cottle has upwards of one hundred and ten, and Mr. Josiah Campbell of North Norwich has one hundred and twenty acres of flax under cultivation. At the lowest calculation, the seed from this crop will produce \$20 per acre, and the fibre \$30, making a total per acre of \$50,—or on the whole, \$51,500." We can only hope that these figures may be reached, though with all our faith in the remunerativeness of flax, we think the estimate too high.

As to the root crops, potatoes promise to be a splendid yield. We hear no accounts of rot in any quarter, but note several references to the particularly healthy appearance of the vines the present season. Turnips will be a light crop, and in some localities, all but a failure. For some cause or other, the past summer does not appear to have been very favourable to the growth of this root. Carrots and mangolds are well reported of.

We have observed but little information as to the fruit yield the present season. The small fruits have done well with the exception of strawberries, which turned out but poorly. Our impression is that there will be an average supply of apples, and but a meagre yield of plums. Grapes, of which a considerable number are now planted in various parts of the province, promise a large yield, unless they

Rural Economy of the Netherlands.

Concluded from page 2, 0)

Wz now come to the portion of M. de Lavelege's report which treats of the other half of the low Countries, comprising nineteen millions of acres, one-half of which remains to this day uncolarated. This belt of land is in most parts naturally sterile. extending from the great Belgian plain to the sands of Prussia, having on an average about fifty feet above the level of the sea. It comprises the provinces of Drenthe, Brabant, Leinbourg, and part of Over-Yssel and Gelderland, and of Utrecht

This region largely consists of awamps and peat bogs, of sinds and heaths, and is in great measure shut out from communication with parts of the country described in a preceding article. Around the drier and better parts where enclosures are made and cultivation has been established, large areas yet remain in a state of commonage, which is in some places partially cultivated and grazed with animals at particular periods of the year by the owners or occupiers of the surrounding enclosed farms. It is clear that cattle cannot be turned out on these wastes till the isolated crops in different places are gathered in, and a meeting of farmers accordingly takes place every year to determine the time when the crops are to be removed, after which the land is free as common pasture. Rye is the principal grain produced in these situations, but buckwheat has of late years obtained a footing. They have a practice of paring and burning the turf and heather of such parts as are left enti. ly in a state of nature, and of carrying the ashes to where very imperfect cultivation is practiced; a system, when persevered in, which must inevitably doom a large portion of the country to perpetual and irreclaimable sterility.

"The peat bogs that fill the hollows of this region when he he dogs that in the notion of this region give rise to a special kind of farm management. No man lives there, indeed he can hardly move about them without danger. The neighbouring farmers therefore lease, or as they express it, purchase the land for twelve years. In the spring they drain the surface of the bog by making drains in it, then they cut the turfs, which are left through the summer to the turfs, which are left through the summer to dry. In the spring of the following year they set fire to the dry turis, level them with a harrow and sow buckwheat. The land so treated produces five or six crops in succession, after the third the yield begins to fall off; from the fourth, spurry, a plant not native to the peat-bogs, makes its appearance. and gradually overruns the land so that in the sixth wheat, it still appears that the crop of gradually overruns the land so that in the sixth wheat, it still appears that the crop of gradually overruns the land so that in the sixth wheat, it still appears that the crop of gradually year, spurry and buckwheat together are cut asforage scarcely sufficient to meet the consumption, notwithfor cattle. When the land is completely exhausted, scanding a large growth of potatoes. The exports cheffy of cheese, butter, and other animal for cattle. When the land is completely exhausted, it is again abandoned to the natural herbage. Twenty-five or thirty years must clapse before the bog is restored. so as to offer a seed bed for cultivated plants. The area burnt every year is so great that the thick columns of smoke, driven by the north wind, spread over the half of Larope. A special odour accompanies the appearance of this produced no wheat, and much less rye than special odour accompanies the appearance of this control of the provided by the now, still it was then the granary of Europe, its argument which the provided by the now, still it was then the granary of Europe, its singular phenomenon, which the people call dry or northern mists, without questioning their origin.

above, that the whole of this large tract is non-productive, or equally barren. In some sections of the various provinces the best systems of cultivation have been introduced. More importance is given to green crops, rye is less frequently repeated, clover is grown, and some approach is made to the alternate system of cropping. Both the practice and products of husbandry are nearly the same as in Belgium. One portion of the province of Leinbourg which is naturally more productive is exceedingly thriving In the peaty tract of Groingen, peat farming has given rise to rich colonies, that furnish one of the brightest pages in the agricultural history of the country. The work of settlement proceeds at the present time. The city of Groningen, possessing a large extent of unreclaimed peats has made a canal and opened the way to new settlers. The system of hereditary lease is applied to the a clearings, and the city may well be satisfied with it for the farmers bring to the work that energetic action to which the

" At another spot has arisen the little colony of the Society of Benevolents, established about forty years ago by General Vamden Besel. Owing to the devotedness of the managers, and the generosity of the subscribers, 434 life homesteads have been built, 3,500 acres of land have been brought into cultiva-tion, and a laborious population of 3,000 souls has been removed beyond the reach of poverty. It is true that the outlay has been disproportionate to the results, and this gives rise to doubts as to the future."

Planting the poor land is a work not open to the same uncertainty. The Netherlands are deficient in wood, having in all only 562,500 acres, almost all situated in the provinces of Gelderland and Brabant. A change is taking place in this respect, and extersive planting has been undertaken. The timber trees which succeed best are the Scotch fir and the black Austrian pine. This new source of wealth promises to be some day highly productive. M. do Lavelege remarks, with justice, that if the Low Countries during the last century had devoted to the planting of their heaths all the money they have invested in foreign leans, their returns would have been more steady, and less exposed to risk from the possible bankruptcy of involved governments. To sum up, the 7,500,000 acres capable of cultivation in the territory of the Netherlands are disposed as follows :-

> 3,375,000 Natural pasturage.... Arable land 1,812,5ff?
> Wood 562,500
> Uncultivated land 1,750,600

7.500,000

These figures show that the Netherlands (together with Switzerland) have the largest proportion of pasturage of any country. If we add the root crops and artificial grasses, it appears that twice as much is appropriated to feed domestic animals as is devoted to cereals and other vegetable products that serve as food for man.

Among cereal crops rye stands first, occupying nearly 500 000 acres. Wheat is only grown in the most fertile portion, and the entire crop does not most fertile portion, and the entire crop does not exceed 620,000 qrs., or one bushel and eleven gallons per head of the population. Bread made from wheaten flour is here an article of luxury; that in general consumption, in town as well as in country, is made of rye flour. The crop of rye exceeds 1.240,000 qrs., or two bushels, six gallons per head. After adding to these figures 515,625 qrs. of buckwheat, it still appears that the crop of grain is secured; sufficient to meet the consumption, notwith.

merchan's importing grain largely from the Baltic, not only to meet the deficiencies in their own growth, It must not be inferred from what has been stated but largely supplying England, France, and other bove, that the whole of this large tract is non-prowas, as has been already observed, the commencement of a new era of agricultural improvements, and Holland promises at no distant period not only to increase its dairy exports and animals to a much greater extent than at present, but also to become absolutely independent of any foreign supply of grain. Its farming already on the sea-board is pronounced by competent authority to be on a par with that of England, Belgium, Lombardy, French Flanders, or any other portion of the old world. It is the wide tract of inland peat and heather that pulls down the national average; but oven here, as we have seen, the industry and science of the people is gradually triumphing over the apparently insuperable impediments of nature.

"Since 1790 the population of the Low Countries has increased 50 per cent. whilst that of Franco has only increased 30 per cent. in the same period. The improvement has been particularly marked in the districts described as "sandy." The possibility of such progress could have been little anticipated at

numerous Agricultural Societies; the Agricultural Society of the two provinces of Holland alone numbered 7,000 members in 1850. They talk of uniting the members of all these societies in one powerful association, and hope to bring up the number to 40,000, fixing the annual subscription at two shillings. At present, instead of such a combination, there are agricultural meetings which assemble every year, sometimes in one province, sometunes in another, to which proprietors and farmers flock from all parts of the kingdom. Many of these Agricultural Societies publish an account of their labors. All questions touching on rural economy are handled in a number of journals, books, and pamphiets, and all foreign works of importance are translated. The province of Groningen supports, at its own expense, an agricultural school, which is well attended. Among the circumstances favourable to agriculture, the number and excellence of the means of communication must bo taken into account. Heavy traffic is all managed by water. Unrivalled facilities for navigation are by water. Unrivalled facilities for havigation are afforded by the extent of sea-coast; by the Zuyder Zee, which penetrates far into the country, like an inland sea; by the multitudes of islands and river mouths; by the rivers and canals which interlace and cross each other. On the sea board there is not a farm without its dyke communicating with the nearest canal, with its boat for the conveyance of hay, manure and the crops. It is by boat that the milk is brought home morning and evening from the pastures. The roads that complete this net-work are paved with bricks so hard that they ring like metal; pased with dricks so hard that they ring like metal; perfectly kept, neat, even, without dirt or dust, you roll along as smoothly as upon the floor of a room."

In such a country railroads have made no rapid progress, for the simple reason that they were much less needed than in other countries differently situated. This modern means of transit, however, has already connected the larger towns and places of commercial importance. There is, perhaps, no other country on the globe, not excepting Egypt itself,-ancient or modern,-that presents so marked a career of agricultural advancement, under the greatest possible natural difficulties, and has attained so high a state of wealth and independence from the management of the soil alone, as the Kingdom of the Netherlands.

Literary Notices.

THE AMERICAN BEE GAZETTE.-We are glad to hail the appearance of a periodical on this conunent devoted to the subject of bee-keeping. The Germans we believe have several, and it will be a disgrace to the apiarians of the new world, if they cannot sustain the apparians of the new world, if they cannot sustain at least one. Three issues of the Gazette are before us, and so far we are highly pleased with it. We carnestly advise our bee-keeping readers to take it. A one-dellar greenback remitted to E. Van Slyke, Am. Bee Gazette, 180 Broadway, New York, will secure the paper for one year.

RURAL AFFAIRS, p.p. 338.—Four hundred engravings. Albany, N.Y.. Luther Tucker & Son. Vol. IV. We have received a copy of this publication from the office of the Country Gentleman whence it is issued, and have great pleasure in commending it to our readers, as a valuable compend of information upon a variety of matters connected with the farm, garden, and household. This volume is the fourth of a series, and like its predecessors, contains three annual issues of The Illustrated Register of Rural Affairs. These are furnished at 30 cents per number yearly. The bound volumes cost \$1 50 each, American money, so that for about \$1 in Canadian currency, the entire set can be bought. From an intimate acquaintance with the work ever since its commencement, we have no hesitation in saying that a farmer cannot make a more useful investment of a \$1 bill than in the purchase of these volumes.

THE CANADIAN SCHOOL HARP.- We have received from the publisher a copy of this collection of sacred music for children, and from a careful examination of its pages, and a pretty intimate acquaint-ance with works of the kind, are constrained to give it the highest commendation. The pieces are judiciously selected, and with scarcely an exception, of decided excellence. The Editor, Rev. J. A. Williams, of this city, deserves the thanks of the youth of Can ada for the service he has done them in putting such a work within their reach. It is beyond question the only may well be satisfied with 1 to the larmers improvement has been particularly marked in the a work that energetic action to which the districts described as "sandy." The possibility of seeding of ownership gives rise

This phenomenon apparently resembles the smooth must such progress could have been little anticipated at come under our eye. It is published at the Wesleyan the period when the Dutch lost the monopoly of naval transport; but agriculture has retrieved overything. If you have the period when the Dutch lost the monopoly of naval transport; but agriculture has retrieved overything. It is never the best collection of juvenile sacred must be such progress could have been little anticipated at come under our eye. It is published at the Wesleyan the period when the Dutch lost the monopoly of naval transport; but agriculture has retrieved overything. It is never the best collection of juvenile sacred must be best collection of juvenile sacred must be best collection of juvenile base co

Agricultural Antelligence.

Meeting of the Board of Agriculture.

. ... of the Board of Agriculture was held in the Agricultural Hall, Toronto, on Wednesday, 15th August, at which there was a full attendance of members, and a considerable amount of business was

Communications were received from the managers of the leading railway lines offering the usual facilities in the conveyance of passenger and articles to and from the Exhibition.

The Exhibition grounds were visited, and the Board noticed with much satisfaction the progress made by the local committee in the preparation of the buildings.

The nomination of Judges for the the different i classes at the Extrontion was apportioned to the various county societies, and the Secretary instructed to communicate with the societies at once.

A communication was received from the Bureau of Agriculture, stating that the sum of \$2,000 had been placed at the disposal of the Board for the purpose of procuring specimens of the agricultural products and agricultural implements of Upper Canada for the forthcoming Universal Exhibition at Paris in 1867.

should be displayed in the ring on the Thursday of

the exhibition week at 1 p.m.
On concluding their business, the Board adjourned to Wednesday, 15th S ptember, at 1 p m.

A Vist to Mr. Snell's of Edmonton.

To the Editor of THE CANADA FARMER.

Sin,-Having been recently on a visit at Mr. John Shell's of Edmonton , and having travelled through the greater part of Canada West, I had a great cumosity to see his stock. One evening I went to see him weigh some of his sheep, and was very much a-tonished at the size and weight of them. They are certainly the best sheep I have ever seen. Of eight Leicester and Cotswold rams that were weighed the heaviest was 401 lbs., the lightest 281 lbs., six of those were shearlings, one two shears and one three sheers. The eight weighed 2,541 lbs., or an average of 317 lbs. One shearling ram weighed 320 lbs. I also saw a fine lot of young Durham Bulls, eight in number, they were from eight to ten months old, mostly by the imported bull, Baron Solway. They are not so large as some I saw imported from England to Ireland, but are finer in quality, and of a better style. Mr. Snell's stock is in excellent condition, and reflects great credit on his skill and judgment as a breeder. A visit to his farm will well repay any of your readlers.

Yours, &c..

JOSEPH H. HARE.

Beverly, Aug. 17, 1866.

The Foreshapowing of Rain.—Just before rain, flowers smell stronger and sweeter, because the va-Howers sinell stronger and sweeter, because the vapours of the air prevent the scented particles of their perfume from ascending, as they would in a drier atmosphere. Instead of rising above the earth, the adour is disseminated by the moisture. Because the plants are stronger in fragrance just before a fall of rain, we see horses stretch out their neeks and snift the air in a peculiar manner. They are thus able to prognostigate the coming storm with unerring signs, while man stands bewildered and lost in doubt.—
There Weld and Parm. Turf, Field, and Farm.

737 Over 3,000 barrels offdour are manufactured daily in Milwaukee.

THE DROUGHT IN THE AUSTRALIAN CATTLE RUNS. -A correspondent of one of the South Australian papers, who has just visited some of the runs north of Clare, gives the most deplorable account of their condition. He says that some of the fenced portions had their boundaries in many places lined with the carcases of bullocks; and that on scarcely one of the sheep runs would there be any lives saved. The ewes, unable to give milk to their offspring, were made to be given at a Ploughing Match to be held in connection with the Lahrbuton. These were declined on the ground that a ploughing match cannot be conveniently held by the Association at the same time with the Exhibition.

Communications are subjects which came up may sheep runs would there be any lives saved. The ewes, unable to give milk to their offspring, were described them, and the lambs were being knocked on the head by the shepherds to save them from a more lingering death by starvation. Upon three runs he severally estimates the loss of sheep this year at 20,000, 8,000, and 5,000.

Furmer of the 14th ult. contains the following: - Our exchanges from Ohio and Michigan have lately been giving sad accounts of the destruction of sheep from the effects of a very cold storm that came on soon after a large number of the flocks were shorn. Hundreds perished in some flocks. The total number is estimated at 10,000 or 12,000 head. We have heard of no complaints from this State or other states of us, and presume that our more fortunate flock-masters have escaped any very serious loss. The destruction of so great a number of sheep is a heavy loss in these days of high prices. We hope the re-ports will prove exaggerated."

SIGHTS IN GERMANY .- A correspondent of the New York Turf in Germany, writes :- What a queer sort agricultural forthcoming Universal Exhibition.

The Board were of opinion that this amount scarcely sufficient to secure an adequate representation; but resolved to turn it to account in connection with the approaching Provincial Exhibition for the purpose of procuring specimens. Exhibitions for the purpose of procuring specimens. Exhibitions for the purpose do well to have in view the possibility of their articles being selected for the Paris Exhibition, and to prepare them in a suitable manner for that purpose.

Allocation consisting of the following gentlemen when the purpose is a suitable manner for that purpose.

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day last, and proved very successful. The attendance of farmers was not so large as at last year's fur, caused, doubtless, by the late harvest, still there was a very good display of wheat. There were 22 entries altogether; four in "Midge proof," fourteen in "Soules," and four in wheat of any variety. Besides these there were a number of samples on the ground not entered for competition. The quality of some of the wheat on exhibition was very line, especially in the "Soules" variety, and one of the judges informed us that he never saw better samples of this kind. We understand considerable business of this kind. We understand considerable business was transacted among the farmers in selling and exchanging for seed. The Judges—Messrs. Elias Eby, Wm. Ralph and Ephraim Wilson, Scn.,—awarded the prizes as follows.—Midge Proof Wheat—1st, David Shoemaker; 2nd, Christian B. Snider. Soules' Wheat—1st, Jacob Herber; 2nd, Antony Wilhelm. Wheat of Any Kind—1st, Antony Wilhelm, for red chaff white wheat .- Berlin Telegraph.

OFFICIAL INCOMPETENCE. - Many complaints are made by our U S. exchanges as to the incompetency of the Chief of their Agricultural Bureau. The Maine Farmer is responsible: ir the following :- "We have it from a source eminently to be relied upon, that the Commissioner was engaged in writing a statement concerning sugar cane seed, and being called away from his desk for a few moments, one of the clerks made a glance at his unfinished manuscript, and found he had written it Shugar cain sead! And we have ourselves seen a communication, bearing; the have ourselves seen a communication, bearing the autograph of Mr. Newton, in which are declarations exhibiting ignorance upon common farm matters which, if made by a farmer boy of fifteen, would be inexcusable! Yet, such a man—one who has not the remotest conception of the duties of his office, and whose ignorance and incompetency would have caused his removal long ago, had it not been for personal friends in high places who keep him in office—is allowed to disgrace the important position which should be filled by a man of learning and good judgeshould be filled by a man of learning and good judg-ment, one of broad and enlightened views, and of some executive ability.

The Tiousehold.

Homedale Farm.

THE CREEK TURNED TO ACCOUNT.

As already intimated, there flowed a short distance behind the orchard and garden of Homedale, a clear. silvery spring creek. Its course lay through a valley in which there was a considerable deposit of black muck, the value of which for manurial purposes was very great. From the time of his purchase of the place, Mr. Perley had revolved in his mind certain projects in regard to this creek. It had once contained speckled trout, but he well remembered how, in his younger days, he and the other boys of the neighbourhood had so thrashed the stream up and down for miles, that all trace of trout had disappeared. But it could be stocked again, and he did not know why a farmer with a spring creek on his place should not grow good front as well as raise ducks and chickens. It was his intention, therefore, to scoop ont a pond or two, and make arrangements for the cultivation of fish. Moreover, he wanted a bathing place, and he conceived the idea of making a pond large enough for swimming purposes. He was fond of bathing occasionally himself, and had been in the habit of enjoying the luxury of a swim now and then in the bay at Hamilton during the summer season. Moreover, he wanted his boys to learn to swim, and there was no stream or body of water suitable for the purpose in the vicinity of Homedale. Knowing the value of swamp muck, it occurred to him that he might make his fishing and swimming ponds actual sources of profit to the farm, by getting out of them a supply of that material for composting with the farm-yard dung Accordingly, in the middle of summer, when the creek was at its lowest, and the valley pretty dry, he set men at work throwing out the muck in heaps upon the banks of his intended nonds. First, he laid out a swimming pond 40 feet long, and 12 feet wide. As he could not well dam up the stream very much, it was nece sary to go down some. The black muck was about two feet deep, and then they came to a solid, compact gravel, which was as hard as though it had formed a macadamized road in days of yore. No sooner did they fairly get into this gravel, than they found it full of little springs that boiled and bubbled up, and discharged so much water that it made excavation difficult. A pump had to be used before the job was finished. By keeping one end of the pond a little the lowest, they managed to pump out the water and get down the required depth. Cedar posts were set round the sides of the pond, and with scantling and plank the banks were held up so that they could not cave in. Before turning the creek through the pond, it filled up with water two feet deep from the springs on the bottom. It was like a big well, the water being as pure, clear, and cold as could be desired. The coolness of the water made Mr. Perley apprehensive that it would hardly do for bathing and swimming; but an expedient presented itself which he thought would remedy the difficulty. It was the formation of an outside pond, shallower than the one already made, which, warmed up by the rays of the sun, would tend to correct the too great coldness of the swimming-pond. He needed far more muck than the first pond had yielded, and concluded to take out more in the way just described. The outer pond would be just the thing for a skating place in winter, besides its utility as a warm water reservoir in the summer-time. A tight board fence. six feet high, round the swimming-pond, secured privacy; and a little dressing-room at one end. made the whole thing very complete and convenient. Before the end of the summer, Mr. Perley and the boys had some agreeable baths-Charles and George taking their first lessons in the art of swimming. The lads and young men in the neighbourhood, also, were very glad to avail themselves of Mr. Perley's invitation to use the pond. They were made wel come to do so, on the reasonable conditions of orderly, quiet behaviour, and care to do no injury to the pond and its appurtenances.

Mr. Perley found that an entirely independent gone now! There is no more childhood for him or arrangement must be made for the fish. The provision for warming up the water, though ascial for the bathing-place, was fatal to the fish-pond, since tront need cool water, and will not thrive except a be kept under a certain temperature in the summertime. It was, therefore, necessary to provide accommodation for the fish higher up the stream. He did not purpose going into it largely at first. He knew that a very limited amount of space would suffice for the raising of more fish than a single faintly could be things no tips to mend, no fingers to the up, no consume. He, therefore, planned a couple of ponds; about 12 fect in diameter; one for the larger and the other for the smaller fish; together with gravel tuns for spawn to hatch upon. He proposed to baced the fish artificially, knowing that the spawn and young trout are liable to be preyed upon if the process of breeding naturally is attempted within narrow bounds. He had read some articles in trust papers describing the way in which trout are proposed to be attained by artificial means, and felt satisfied that it would be the most satisfactory method he could adopt. When his little ponds were in readiness, the next business was to stock them. He knew of a stream near Paris where he had reason to think trout could be found; run over, to hear child-life at work with all its was to stock them. It knew of a stream near raris where he had reason to think trout could be found; and thither he went, taking Charley with him, to try and find some fish. To transport safely any trout he might find, he provided two tin pails, one larger than the other, the smaller one perforated with holes. on the bottom, to facilitate changing the water two or three times while bringing them from Paris to Homedale. While fishing, the pail with holes in the bottom was to be set in the stream where the trout were caught. The plan worked very well. Mr., Perley succeeded in finding some trout. Most of them were small, but now and then a good sized one was tritteded out of a sly hole. A book was used. them were small, but now and then a good sized one was twitched out of a sly hole. A hook was used with the barb filed off, to prevent serious injury to; the mouths of the fish. Occasionally a trout shpped off the barbless hook; but by quickly jerking them out, a good lot were easily secured, the stream in which they were taken being a very narrow one. Two trips were made in search of trout with which the others and coursel down obtains Two trips were made in search of trout with which to stock the ponds, and several dozen obtained, so that a very good start was made in the fish business. They were fed occasionally, to tame them and hasten their growth, and when spawning-time arrived, Mr. Perley purposed commencing experiments in the way of artificial breeding with the larger fish. Already pleasant visions of lusty trout were indulged by the family, and the boys thought they would have fine sport angling close at home. were indulged by the family, and the boys thought so we does relainly not potatoes neight? Into analy they would have fine sport angling close at home when the fish were large enough and plentful chough to make inroads upon them. Meantime, the muck that had been thrown out of the ponds was draining and drying, so as to be comparatively light for teaming to the barn-yard, where it was destined to be spread under the cattle, pigs and sheep, or to be piled up close at hand awaiting admixture with lorse and other dung the following spring. Teaming he muck was held in reserve as a winter job, when lot cams had little to do. To teams had little to do.

(To be continued.)

How to Meet Cholera.

First, have a clear conscience. Next, attend to

the following directions:

Cholera has two stages,—a premonitory, or mild stage, and a stage of collapse, which is tatal. The soon think of committing regicide, as boiling her premonitory stage is ushered in by a mild, pamless diarrhea, which generally continues for hours, some times for days, before the stage of collapse sets in In this premonitory stage the disease is readily and promptly curable by simple remedies, combined with the recumbent position. All that is necessary the correct way to recommend the correct way to recommend the correct way.

in former visitations of cholera to organize a body tork goes smoothly through the potato without en of visitors, under the direction of a central medical countering a mue of core. Then drain off the water, board, whose duty it was to visit from house to house set the pot over the fire uncovered, for five minutes, two, three or four times daily, and enquire in every lafter which whip off Mr Potato's jacket in a hurry family for those cases of digrates, heart, waster that gond him to the table in a class cover notice. two, three or four times daily, and enquire in every after which whip on the rotato's jacket in a hurry, family for these cases of diarrhea. Each visitor and send him to the table in a close cover, piping carried the proper remedy, and personally attended to the proper remedy, and personally attended to the proper remedy, and to the continement of the patient to his bed. The result of those organizations are personally in numerous instances, towns lying shall find it a personal a few times, and if you was most happy; in numerous instances, towns lying shall find it a personal a few times, and if you was most happy; in numerous instances, towns lying shall find it a personal a few times, and if you have the the continuous practice. You shall be at in the direct track of the disease did not lose a single liberty to consider Madeline as competent to write a personal and the continuous practice. inhabitant by the cholera, though thousands of cases readable romance of painless diarrhea were treated — London Examiner day Evening Post.

They won't Trouble you Long.

CHILDRES grow up-nothing on earth grows so fast It was but yesterday, and tout lad was tops, a buoyant boy. He is a man and as children. It was but yesterday playing with tops, a buoyant boy

the raising of more fish than a single family could blo things no rips to mend, no fingers to tie up, no consume. He, therefore, planned a couple of ponds; faces to be washed, or collars to be arranged! There

varieties.

During the secular days, this is enough marked. But it is Sunday that puts our homes to the proof. That is the Christian family day. The intervals of public worship are long spaces of peace. The family seems made up on that day. The children are taining seems made up on that day. The entitrenare at home. You can lay your bands on their heads. They seem to recognize the greater and lesser love—to God and t, friends. The house is peaceful, but not still. There is a low and melodious trill of children in it. But Sunday comes too still now. There is a silence that aches in the ear. There is too much room at the table, too much at the hearth. The bed-

rooms are a world too orderly. There is too much leisure and too little care.

Alas! what mean these things? Is somebody growing old? Are these signs and tolens? Is life waning?

HENRY WARD I LECTION. waning? Brooklyn, N. Y.

Boiling Potatoes.

The lady authoress of "Uncle Tom," and divers other popular publications, has been writing a homily on cooking potitoes. I should like to know if Mrs Stowe does really boil potatoes herself? I do. and I have long since known better than to pare my pota-toes raw and then dowse them naked into water red

tenths of all the starch that a potato affords is de-posited so near the surface, that however carefully we may pare the tubers in a raw state, we are sure to throw away the greater portion of that very ma-terial that we cat polatees for? Then, if we toss our potatoes into boiling water, unprotected by their overcoats, we have set in a second, and hopelessly incorporated with the mass that semi-volatile princi-

In this premonitory stage the disease is readily and there are in fredam promptly curable by simple remedies, combined with I tell you, fellow-housekeepers everywhere, that rest in the recumbent position. All that is necessary the correct way to cook a potato in any country therefore, to prevent a fatal attack of cholers, is provided boiling is the determination, is to wash it that the patient shall lie down, keep warm and quiet clean firstly be tit lie in clean cold water two hours and take such remedies as will relieve the diarrhea.

A knowledge of these facts led many English towns took, without paring, hall moderately until the test

readable romance, as she is to cook a potato.—Salur-

Making Pickles.

Different methods are practiced in making pickles. The most common one is to make a brine, and put the cucumbers in it; and keep adding to the quantity as you pick them from the vines. You may continue this process for weeks, tall the cask or harrel is full. By adding salt to the brine, you may keep the cucumbers sound and good for months,—These brined cucumbers can, at your convenience, be converted into pickles, by taking a larger or smaller quantity of them, and putting them muo good vinegar. In a short time they will be fit for use. As you pick the cucumbers from one day to another, you must see that the brine is strong enough. A quart of salt to a gallon water is the proper proportion. But great troub'e is often experenced with pickles in brine, from the formation of a white scan on the surface. To remove this put a pie w of c'el over the surface of the brine, and a board cover on this. When you add feesh cacumbers to the barrel, carefully lift up the Coth and the scam adhering to it; wash it and replace it. Repeat this process as of encas is neces-

Another method for making kickles is, to put the Another method for making kickles is, to put the cucombers in a barrel, and sprinkly them freely with time salt. The moistare within dies aves the salt, and thus a strong brine is formed. The trait itself will shrivel, but the plumpness will be restoted as soon as it is put into vinegar. When you have large quantities of encumbers, you may full barrels with them, add a half peck of salt to each, head them and fill them with water through the bungs, and then close the bung holes tight. Pickles thus prepared, it is said, keep in good condition for a few weeks, till sold, and the parchaser then manages them in his sold, and the purchaser then manages them in his own way.- Ec.

THE TO FOR WORKS A great deal of the mischish. ness and consideration and tack of women is the result of long days spent in humouring the moods, and noting the captices, and studying the tastes of those with whom they have been thrown in contact, during their girlhood and their youth. Little things at such a time make or mar the precarious smashine of each day, and at a very early part of their life, women thus begin to learn to be delicate tacticians and diplomatists of no mean skill. Hence comes, perhaps, their keen power of observing and remembering trifles, not to mention their habit of judging of character from small outward pecularities.

- 14-48-44

First Lessons in Rights.-Teach the boy to sit fris: Lassons in Annata—Peach the boy of sta first. Pasten the pony's head into the right place with a pair of reins buckled to the flaps of the saddle, and a standing martingale if necessary. Then put the boy into the saddle carefully, fit the st.rrups to his legs, tell him to keep his shoulders back, has back slack, his heels down, and cross his arms across his stack, his heels down, and cross his arms across his chest. Then, repeating the cabalistic words, "Heels down, back slack," over and over again, lead the pony about at a walk for a day or two until the boy gets his balance, or what the 1 rench happel, call "son assistte." Then give him a single pair of reins, and explain that in riding the hands are always to be kept than the above, and governly as love as the rest than the above the arms the rest than the state of the rest than the rest t evplain that in riding the hands are always to be kept lower than the elbows, and generally as low as the hips. Impress on him, "If you raise your hands you are lost," and that the bridle is not a safety handle to hold on with, but a pair of lines for steering: "If you want to turn to the right, pull the right rein: if you want to turn to the left, pull the the left rein."

There are boys and men who learn to ride, and ride and the institute initiation and wrating repealable.

well, by instinct, imitation, and practice, especially well, by instinct, imitation, and practice, especially if they have good models before their eyes, and are not spoiled early by flattering toadies, but there are many men who never ride with any sense at all, al though they ride all their lives. Some people seem to think that fatting off does boys good. That is not the writer's opinion. A boy should, as a matter of course learn not to make a fass about a fall, or any other hur: or accident; and he who is not afraid will full the mest eleverly; but the first point of will fall the most eleverly; but the first point of good horsemanship is not to fall until your horse folds, the next is to guide and hold him that he shall fall as solden as possible. Many a fine boy has been cowed and epoiled, as a horseman by being put on ponies too restive or spirited for his strength and immature seat. But there is a mistake in the other diinature seat. But there is a mistake in the other diversition of Teaching is wasted unless principles are followed by practice, and unless what has been learned in the home park or school is practiced on rough ground and across country, up and down steep bills, across moors, and through woodland. For this purpose there is nothing better than an occasional day with the hariers; boys and horses both learn to be quick to turn, to stop, and to start again. No horseman or horsewoman is safe who has not learned to leap real sences, ditches, banks and hurdles; for the quietest horse will back sometimes, and the slowest ride end in an inevitable short cut.—Dicken's "All the Fear Round."



Clair House Vineyards, Cooksville.

Results that cannot fail to exercise an important influence on the horicalture and trade of this prov ince, have been already secured by the comparatively recent experiments in vinc-growing and wine-making which have been made by Mr. De Courtenay of Cooksville. The success that has marked the history of this vineyard for the past three years demonstrates that grapes, we'll suited for table use, and for the fruit is, however, invariably removed from them that

tons of grapes. Some of our readers, who have not inspected the Clair House Vineyards for them-elvemay regard this statement as an exaggeration. A visit to the establishment will effectually dispel any such doubt, and will most probably enlist such visit ors among the believers in the movement, if not among the shareholders in the concern. As regards pruning, no satisfactory description of the process can be given in writing. It must be seen and studied to be understood. The method of prop agation pursued is by planting cuttings at the time of pruning in spring. The soil being theroughly pulverized, and a little bone manure added, three cuttings each of about a yard in length are planted together-the distance preserved between each three being, as already intimated, four yards, We carefully inspected a large area planted last season, and satisfied ourselves that of the cuttings so planted, at least two-thirds thrive and do well. The young vines come into bearing the third year. The

As already stated, the vines are pruned in the pring; and, with the exception of keeping the stems of the plants for about a yard high from the ground, carefully divided by shoots and leaves, not a tendril or a leaf is disturbed till the ensuing year. By thus preserving what have been well designated "tho langs of the plants" uninjured, the fruit produced is of the finest possible description. The important object of having all the fruit in the vineyard ripen simultaneously, is also fully secured, a matter of no small consequence where grapes are grown for winemaking purposes.

The Clair House Vineyards comprise 170 acres of land, of which 40 are already planted with grape vines, more than half of which are in full hearing. The example thus set has not been lost upon residents in the neighborhood, by whom considerable tracts have been planted with cuttings gratuitously furnished by Mr. De Coartenay. Why should not every farm and garden in the land be decorated with a grape walk summar to that shown in the above engravings?



Grape Trellines at the Clair House Vineyard, Cocksville.

manufacture of wine, take kindly to our climate, and | year before it ripens, in order that it may not unwithstand the inclemency of our winters without any | necessarily exhaust the plant. It is a well established protection whatever.

details of the growth of this important undertaking, occurs from the time when the seed begins to form Like every other innovating enterprise of a useful until it ripens. Removing the fruit before it matures character, the Vine-growers' Association has had has another beneficial effect, inasmuch as it permits many difficulties to encounter. We believe, that the the plant to divert its resources of sap to the better history of the movement will shortly be issued in ripening and hardening of its wood. It will readily pampllet form when we may notice it more in detail, be understood, that in a rigorous winter climate like at present we will address ourselves more particulours this is an important desideratum. The young larly to the system of culture pursued with the vine vine, in the fourth year of its life, presents the appearat Cooksville.

dition of saccessful culture to consist in a proper artist, are as follows.—Twenty-four feet in width, system of planting and pruning. The vigour of the six feet in height; distance between the plants six vine varies with the climate, and consequently m feet, space between the row shown and the next warmer latitudes the plants require a larger amount six feet. The outer row shown on each side of the of feeding-ground so to speak than they do in colder engraving, forms one side of an avenue similar to regions. In this province, a suitable distance be tween vines is four yards apart each way. This af energy the vines are trained on simply constructed. fords an area of sixteen square yards to each plant. rustic trellises. In fastening these structures togeth-planted thus, an acro contains somewhat over three er, as well as in securing the vines to them, no other hundred vines, and yields from fifteen to twenty-five material is used but shoots of the orier willow.

fact in plant physiology, that the chief exhaustion of Did space permit, we would gladly enter into some the vine, and other fruit yielding plants and trees, ance shown in the accompanying illustration. The Mr. De Courtenay rightly regards the essential coa- dimensions of the row so admirably depicted by our

Killing the Worms.

Tut. worms in my apple trees were legion-they were in solid masses as large as my fist. How to destr 3 them was the queston. I tried crushing them in my hands - this was quite effectual -but, bah! rather too unpleasant; so I bethought me of another plan. I took a pint of kerosene oil in a vessel, went to the rag bag and got some pieces of rags of various sizes, averaging as large as my hand—was not very particular about the size—some of them may have been larger than my hand. These I put into the oil-then I took a lot of matches and a pole about ten or twelve feet long, the small end of which was split a little way down through the middle. I put a rag, saturated with oil, in this split of the stick, and set it on fire with oil, in this split of the stick, and set it on fire with a match, and then held it close to the nests of the worms, and destroyed as many as possible with the burning rag. Large clusters of them fell to the ground, and these I killed by smashing them with my boots—taking a fresh rag as fast as one was burned. These rags burn with a good blaze and intense heat, and I consider them very effective. I think that in three hours I destroyed enormous quantities of them. This is a sort of "Greek fire" for them, and is terribly destructive to the worms.—Ez. is terribly destructive to the worms.—Ez.

Talk about Strawberries.

Ar a recent meeting of the New York Farmers' Club the followin; conversation respecting strawberries is reported to have taken place: -

"Which is the best sort? C. Taber, the market reporter of the Tribane, says this question is quite as unsettled as it was a year ago. None of the fancy sorts seem to increase in market. A few new kinds make their appearance every year, have a short run, and then are heard of no more. Triomphe de Gand, Union and Austin, show less this year than last. The sort which made the greatest sensation a year or two ago, the Agriculturist, is scarcely to be found in market. Perhaps those who have this sort are growing plants for sale. They certainly do not grow truit for market. The few offered look well, but marketmen say they are too soft to carry or keep well. The Triomphe de Gand loses ground every year. The fruit is good, appears well, but the plants are not reliable for a crop. Wilson's still takes the lead, and comes out a long way ahead. Growers maintain there is more money in it than in any other variety. The Early Scarlet and Scotch Runners, small as they are, have paid well the present season. After all, it is a difficult matter to give advice about the varieties of strawberries, for a kind which does well in certain localities with one kind of culture may fait entirely in another locality with different culture. Wilson's succeeds over wider range than any other. Upon the whole, growers differ about as much in their opinions as they did one year ago—some of them say they know less.

know less.

"The Committee of the Club which went out last week to Newark to look at the Durand Seedling strawberry in Mr. Brill's garden, made a report, and also read a letter from Mr. Durand, ga.mg. a description of its origin and character. He states it to be a hybrid of Triomphe de Gand, Green Ptolific. Peabody's Seedling, and we think one other sort. As several members remarked they didn't see how it could have four fathers. This is its third year, and of course first year of bearing to any extent, and although a handsome berry, of large size, prolific, rich scarlet colour, remarkably firm, and growing with strong rich foliage, some members of the Club are not as yet prepared to endorse it as the very best strawberry yet produced, and as likely to supersede all others.

Solon Robinson said he had heard the same story of at least a dozen different kinds. A few years ago, this same Peabody, Green Prolific and Triomphe de Gand was each in turn to supersede all other varieties. Each in its turn has gone, or is going to a state of oblivion. I know of but one kind of strawberry which has stood the test of cultivation for market in almost all sections of the country, and that is the Wilson, much despised by some because it is sour, yet much relied upon because it will grow and produce fruit, where many of the fancy sorts have proved magnificent failures in spite of granddoquent recommendations.

Hints on Transplanting Evergreens.

The warm summer months, now at hand are the best time in the year for transplanting evergreen trees, and a few short hints on the subject may not be amiss. A large percentage of nursery-grown evergreens, and probably three-fourths of these trees taken from the forest, are killed out-right in transplanting, simply on account of ignorance of the necessary precautions to be taken in their treatment at the time they are transplanted and afterwards.

time they are transplanted and afterwards.

The principal thing to be observed is, never to let the roots see the sun, or feet the wind, long enough to lose their surface moisture. The reason for this is not agreed upon by all vegetable physiologists. Hon, John H. Klippart, so widely known in connection with Ohio agricultural matters, in a conversation on the subjet, gave me, as his opinion, that the bark of the roots of evergreens, and many other plants, is as sensitive to light as are the chemicals of the photographist, and that the rays of sunlight, either direct or refracted, produce a chemical change in the bark, or vessels therein, injuring them to a greater or less extent. In support of this theory, Mr. Klippart can certainly show some good evidences. Evergreens, and some wild flowers and plants from the woods, in his grounds at Columbus, Ohio, are much thriftier if transplanted in the night!

transplanted in the night!

My own theory is, that if the sap in the roots, which is more or less resinous, is suffered to become even partially dried by the sun or wind, it (the sap) is rendered thicker, and becomes almost, or quite. indissoluble, choking up the vessels of duets, and thus rendering the roots incapable of assimilating the necessary food for the growing tree from the surrounding soil.

Whatever the theory, the fact remains, that if the roots of evergreens are kept moist and shaded from the sun, these trees, are, as a class, more sure to grow when transplanted than any other living plants, except some weeds.

Furthermore, if possible, get the evergreens from a good nurseryman, who is a good propagator, and, if to be shipped for any distance, who will pack the trees so that the roots will keep moist, and the foliage and branches cool and dry. Nursery-grown trees are already prepared as to their roots for transplanting, many or all the rootlets remaining on the roots, while trees from the forest unavoidably lose nearly or quite all the rootlets, unless the trees are very small when transplanted.

As to the time of year, from the first of May to the

As to the time of year, from the first of May to the end of August is as good as any time, provided always that the roots are kept covered and moist. I have taken hemlock from the woods in August with better success than in April or May. They seem to do better when the sap is in motion than before or after.

Lastly, set out plenty, and you will get the benefit, and also the thanks of the next generation.—Charangt vin Horticulturist.

Dwarf Apple Trees.

The culture of dwarf apple trees (i. e., worked on the paradise stock) is yet very limited in our country, and it is only within a few years that they have attracted any attention, but as they become better known, and their real value appreciated, they will, we are sure, be considered almost as indispensable as the pear. They are less particular as to soil than the pear, grow quite as readily, occupy but little more space than a currant bush, and bear three to six dozen of large and beautiful fruit each. Besides this, they are so completely within the control of the cultivator, that if the canker worm attacks the trees, they can easily be destroyed by the application of whale oil soap. Now that this pest is so destructive to orchard trees, the bush apples supply their place, and the same ground, covered with a dozen or two trees, will produce nearly the same quantity as a standard, and much larger and more beautiful fruit.—Hovey's Mag.

ARACCARIA EXCEISA.—The Norfolk Island pine—in its island home is a splendid tree, being thickly scattered everywhere; many specimens standing singly are furnished to the ground, forming the most perfect pyramids that can be conceived. The average height of the tree would seem to be about 100 feet, but one fine old specimen measured 36 feet in circumference at the base, and must have been considerably over 150 feet high.—John G. Veilch, in the Gardeners' Chronicle.

Moss on Flower Pors.—Ladies who are fond of cultivating flowers in the house, will find great benefit to the plants by spreading a coat of moss over the earth in their flower pots. This keeps the water from evaporating, and the temperature more uniform. Tea grounds are often used for the same purpose. Where a flower pot sets in a saucer, with a hole in the bottom of the pot, put a little sand in the saucer and cover it with moss, and you have a simple and admirable arrangement.—Ex.

Stopping the Bleeding of Grape Vines. -Though too late for use this year, we give two methods recently proposed. A correspondent of the American Horticulturist writes, that having to move an old vine, he cut it back and covered the wounds with copal varnish when obliged to prune in spring, and finds it stops the bleeding. A writer in the Journal of Horticulture wipes the end of the vine dry, and covers it with a stiff paste of cement (hydraulic lime.) The application is repeated two or three hours after the first one, and the bleeding effectually stopped.

THE ONION.—An American exchange discourses on this subject as follows: —"I never cat onions." said a simple and would-be fashionable girl. Now we will venture to say she cats slate-pencils, clay, brick, and pickles, and says they are "splendid." We have no patience with such sentimentalism, that prompts persons to talk so much against onions, and leads to the ignoring the use of a good and healthful vegetable, because it is fashionable to decry its terribly offensive odour, while they perfume themselves with the masty seem of a muskrat. Verily has it been said, there's no accounting for taste."

New Roses. The Furner states that at the Crystal Palace Rose Show on 23d, and that of the London Royal Horticultural Society on the 28th June, the first prizes for new roses were taken by Messrs. Paul & Son, Cheshunt, on whose stands the following were the leading kinds: Paul de la Meilleray, Xavier Olibo, Princess Mary of Cambridge, Madame Am broise Verschaffelt, Marie Boisse and Baronne de Maynard, both whitish hybrid perpetuals; Michel Bonnet, Exposition de Brie, Friderick Biborel Duchesse de Caylus, La Duchesse de Mony, Fisher Holmes, Prudence Besson, and Marcechal Souchet Charles Roullard, Alfred Colomb, Madame Fillion Marguefrite de St. Amand, Josephine de Beauharnais the yellow tea Marcechal Nicl.

Melhourne Botanic Gardens,—The building for the new laboratory at the Botanic Gardens has been furnished and fitted up with the necessary apparatus and a series of experiments commenced, under the direction of Mr. Muller, for the extraction of ta acids, potash, &c., from the various woods in the colony, with a view to preparing a tabular statement of their respective products, and also that specimensmay he in readiness for the forthcoming exhibition. It is also intended to test the various natural products of the colony, as to their suitability for paper material, and to prepare various raw materials in a fit state for export. It may be mentioned that the essential oils prepared from the leaves of the Eucasypti, &c., in a similar series of experiments, andertaken prior to the last exhibition, have now become articles of commerce.

Double-Flowering Pelangonium -Lady Victoria Scott.—This novelty is one of those which cultivators designate, for convenience, true or stage pelargoniums. It is pure white, of remarkable substance, and stout robust habit. A specimen was exhibited by Messrs Carstairs & Sons—who are sending it out—at a meeting of the Edinburgh Botanical Society on the 10th inst., which elicited general admiration, not only from the beauty of its double flowers, but also for the regular rotundity of their form. These varied from an inch and a-quarter to an inch and a-half in diameter, resembling somewhat those of the doable-flowered gean—Cerasus sylvestris place pleno, and the Merisier Ranuculer of the French—this regularity in form being rare in flowers like pelargoniums and violets, which, in their original or natural state, are each composed of five petals, in three different forms and sizes.—The Farmér (Koman).

"Pruning Trees to Let the Sunday." A few days since, happening to go through a friend's young or chard of apple trees, we found them all pruned, with the heads, or leaders, mostly cut out, and the bare branches and centre of the tree fully exposed to the full blaze of the sun. We asked the why and the answer was, "It was done to let the sun in." We said nothing, but thought ourself that, in this clear, sunshiny clime, where shade is essential to regetable life at mid-day, our friend must have been conversing with some old country gardener, whose practice had been in a clime of moisture, and where to obtain sun, not shade, was a part of his routine. As a rule, more injury than good is done by this severe pruning. Cut away all crossing branches or twigs; shorten in all that incline to grow too strong and throw the tree out of shape; cut away some few little weak shoots and then throw away your knife, rather than mutilate the tree by cutting its limbs and causing it to try for us life by sending up water-sprouts.—Horticulturist.

Grape-Growers.—We have received the Report of the Northern Ohio and Lake Shore Grape-Growers' Association for 1865-6. Its next show will be held at Cleveland, in October. As to the extent of grape culture in the district covered by this Society's operations, Mr. F. R. Elliott, the former Secretary after much inquiry and observation, has published his opinion that previous to the planting of the spring of 1866, there were not less than six thousand acros of grapes in the Lake Shore region, including the Islands. And the President estimates that at least 1,000 acres more have been planted in vineyards the current season. Of the amount of wine manufactured in this region, the past year. We Elliott gives the following estimates:

following estimates:

"The section cast of Cleveland, 40.000 gallons: the section west of Cleveland, 150,000 gallons: Cleveland and its immediate vicinity, 89,000 gallons, in all, 279,000 gallons. The value of this wine at wholesafe prices is between five and six hundred thousand dollars. Had the entire grape crop of last year been made into wine, the product would have been 2,000,000 gallons."—Co. Gent.

Miscellanecus.

The Agriculturist's Education.

Ar a recent meeting of the Bridport Farmers' Club, Mr Cox is reported to have said: "Why has not every farmer his own thatcher? There is nothing so difficult in the art but that it may be easily learnt but 'tis not every one who likes to find reed and spars with which a novice might practice, and they depend on the district thatcher. Again, how useful on a farm is a man who has a knowledge of rough carpentry, and how many pounds a year might he save his master? But you may say- It is very well to talk of the utility of such men, but how are we to get them? Why you must begin with the young children; you must educate them. But you may say, what have reading, writing and arithmetic to do with thatching, carpentry, hoeing, drilling, ploughing, and the host of other things on the farm? True, they have very little to do with them, but every boy should learn them, and whilst he is obtaining a knowledge of these he should likewise study the various agricultural labours as well. Your village schools are not yet what they should be; but we are going are not yet what they should be; but we are going on, on, on, towards what I suppose we shall have them in time, and that is, industrial schools. A phil-inthropic lady of Bridport, whose name will live for ages, though she now sleeps with the departed, some years since established an industrial school for girls in this town. Now, these girls are taught all the work of the house—cooking, cleaning, washing, ironing, baking, and a host of et-ceteras, besides a good English education. At fifteen or sixteen they are fitted for a situation as house servants, and many people have already obtained from that establishment what is now rare to be had—a good domestic servant. Now. we want similar institutions in country villages, for children of both sexes; and I am happy to say that there are many in England already, viz., villages, for children of both sexes; and I am happy to say that there are many in England already, viz., at Henley-on-Thames, at Northampton, Gloucestershire, in Herefordshire, Warwickshire, and Worcestershire. I cannot find time to tell you exactly how these schools are worked, but I would refer you to vol. vi. of the Bath and West of England Society's Journal, where, in a paper written by the "Spender and Isaac," the schools are fully described. It is all very well, gentlemen, to teach children to be moral; virtuous and good Christians, but you must teach them something more—how to be good and expert workmen, and how best to do their duty in the sphere workmen, and how best to do their duty in the sphere of life in which they may be reafter be placed."

Josh Billings' Philosophy.

I now that a man haz just az much rite tew spel a word az it iz pronounsed, az he haz tew pronounse it the way it ain t spelt.

tarthi glory iz sum like potatoze on very ritch sile— top plenty—tater skarse. It ain't so much trouble tew gil rich, az it iz to tell

when we have got rich.

The most bitter sarkasm sleeps in silent words.

Hope iz everybody's handmaid, she iz a sli coquette and promises menny favors, but grants only a fu, and them are badly diskounted.

If you want tew git at the circumference ov a man, examine him among men—but if you want tew git at hiz aktual diameter measure him at hiz fireside.

There iz nothing so difficult tew hide az our follys.

There iz but few men who have karakter enuff tew

lead a l'fo ov idleness. Tru Love iz spelt jist the same in Chocktaw az id iz in English.

Buty that don't make a woman vain, makes her

A puppy plays with every pup he meets, but old doggs have but in associates.

He who buys what he kant want, will, ear long want what he kant buy.

It kosts a good deal tew be wise, but it don't kost

nny tew he happy.

Necessity begot Invenshun, Invenshun begot Convenience, Convenience begot Pleasure, Pleasure begot Luxury, Luxury begot Riot and Disease, between them, begot Poverty, and Poverty begot Necessity again—this iz the revolushen of man, and iz about awi he brags on.

There is no such thing a fletter—if companies has

There is no such thing as flattery—if commendasbun is deserved it is not flattery but truth, if commendasbun is undeserved it is not flattery but slander.

"The luxury ov grief!"—this, i take it, means to have yure old unkle die and leave yu \$9,000, and yu cry.—Poughkeepsie Press.

Hints to Farmers.

LITTLE GRIS, the funny lecturer on Hunkadora perpetrates the following Hints to farmers, through the Cincinnati Times:

What Hoes to Use—In planting or hocing corn use

the ordinary hoes in common use. Neither India rubber hose nor cotton hose would be of account in a corn field; no more would one of *Hoe's* eight-

cylinder presses.

How to Hold the Plough.—Don't try to hold it out at

arms length. You can't do it.

If you hain't a plough of your own, get out an attachment on your neighbour's who owes you. Any Justice can tell you whether you can hold it or not.

The Best Time to Put in Rye.—I asked an old farmer once what was the best time to put in rye? He looked at his watch and-replied:

"This is about my hour."

The rye was immediately put in.
All seasons are the same for putting in rye.

How to Keep Corn.—The best place to keep corn is in a good corn house, though some perfer to keep it in their system—in the juice. If they don't keep corn they keep corn?

in their system—in the juice. It they don't keep corn'd.

Pences and Fencing.—Good fencing is essential on a farm. Get a good "fencing-master" to learn you.

A rail fence is better than an imaginary one. You can't repair a worm fence by taking vermifuge. Neither can you cut good whitewash brushes out of brush fences. Mintzer can tell you that.

To Make Your Stables Warm in Winter .- Set fire

to them.

To Drain Lands .- Drink whiskey, and spend all

your time at the village tavern. This will drain you of all your land in a very short time.

Easy Way to Draw Saw-logs.—Draw them with a crayon pencil. After a little practice you will be able to draw the largest kinds of saw-logs with ease.

An Irishman, in describing the trading powers of the genuine Yankee, said:—"If he was cast away on a desolate island, he'd get up the next morning and go round selling maps to the inhabitants."

Rest on Iron—Paint.—Every particle of rust on iron may be removed by first softening it with petrolium and then rubbing well with coarse sand-paper. To point iron take lampblack sufficient for two coats, and mix with equal quantities of Japan varnish and boiled linseed oil.—Rural N. Y.

OUR COMMON SCHOOLS.-The common schools give OUR COMNON SCHOOLS.—The common schools give to the mass of the people the key of knowledge. I think it may with truth be said, that the branches of knowledge taught therein, when taught in a masterly manner—reading, in which I include the spelling of our language, a firm, legible bandwriting, and the elemental rules of arithmetic—lare of greater value than all the rest which is taught in our district than all the rest water is taught in our district schools; for the young person who brings these from school, can himself, in his winter evenings, range over the entire field of useful knowledge. Our common schools are important in the same way as the common air, the common sunshine, the common rain—invaluable for their commonness. They are the corner-stope of the municipal organization, which is a characteristic fortune. the corner-stope of the municipal organization, which is a characteristic feature of our social system, they are the fountain of that wide-spread intelligence, which like mortal life, pervades the country. From the humblest village school, there may go forth a teacher who, like Newton, shall bind his temples with the stars of Orion's belt—with Herschel, light up his coll with the beams of before undiscovered planets - with Franklin, grasp the lightning. - Educard

LUCIFER MATCHES .- "Says the Working Man: "The insignificant-looking lucifer match has become one of the indispensible adjuncts of modern civilisation. Unknown to the public thirty years ago, it has risen with unprecedented rapidity into popular favour. effectually superseding the flint, steel, and tinder-box. The sedan chair, and the oil-lamp, have become things of the past, never to be revived in these days of express trains, ocean steamers, and electric telegraphs. The contrast between the tiny splint and the ungainly form of its predecessor, the common brimstone match, is eminently suggestive of the difference existing between the past and the present. Yet, common as the lucifer match is, there are few who really know anything of the manner in which it is produced. Like the pin, the lucifer match forms one of the curiosities of modern manufacturing industry. Although its manufacture only dates from 1833, yet whole forests have already been cut down to supply the immense and increasing domand for the wood of which the matches are made, to say nothing of the many tons of chemical matter likewise required; and when we come to consider that at present the trade Unknown to the public thirty years ago, it has risen when we come to consider that at present the trade is, comparatively speaking, in its infancy, the pro-bable extent of its future requirements becomes sufficiently starting."

Loctry.

Kitchen Hippics.

"We find in Galignam's Messenger of the 2nd inst, the following announcement, "The first market for the sale of horsefiesh will be opened on bonday next, at No. 3, Boulorard d'Italia. The price will be about two turds cheaper than beet." — Sporting Life, July 4

Gently stir and blow the fire.
Put the strion down to reast;
Vegetarians curb your fre.
"Horsefiesh!" is the reigning teast;
Here, at last, a Cish I find,
Meet for men of stable mind.

On the dresser see it lie,
Oh the luscious white and red!
Finer meat no'er met my eyo,
On the sweetest eats it fed;
Now horse-radish scraped with skill,
Its true mission can fulfit.

'Cuto receipts I have in shoals Cuto receipts I have in smoots
For each part from toogue to croup;
Mother of a dozen foals
Makes good stock for gravy soup—
Dearly loves a Ring believer
' Corp.es' full of pencil fever."

Cutlets from the cookson stud Prophets' brain and hearts will stir, Horse taughs show the pure "blue blood," Intto a "Horse godmother;" Horse-leech you may swim at ease, And smite at all the similes!

Cabbag drags the soul to earth, Porkers have the measies ban, As of old in Centaur birth, Horse "assimilates" with man Fach man bears, so Huxley said, A hippocampus in his head. with man

Why is horse-flesh held in fee
By Remus, Railywood, and Guider.
Give them beef, and leave to me
Round of tough and "rank outsider"
But the fillet for my spit
Is "Tominy syearing" favourite.

Colour don't affect the meat Colour don tancet the meat,
Bay or chestnut, grey or brown,
Stallion steaks are quite a treat,
When 'be's thickened and let down;
Still I don't despise 'a weed
Of a billy "fricasseed.

Both lovo "Trojan horse," I know, And, though hardly of a feather, William Gladston and Bob Lowo Shall hippophagiso together; With good Biss and Bordeau wine Epicurus! how we'll dino!

H. H D. in Mark Lane Express.

Advertisements.

BONES! BONES! BONES!

CASH Paid for any quantity of Bones, delivered in Boston, or at our Bone Flour Manufactory, in N. Y. Addres,

C H GARDNER, AGENT Of the Boston Milling and Manufacturing Co., 16 Cortland St., N. Y.

137-10

Seeds Direct from the Growers. CHAS. SHARPE & CO.,

SEED GROWERS AND SEED MERCHANTS.

LEAFORD, ENGLAND,

Will be glad to send, on application special quotations of FARM AND GARDEN SEEDS, of their own growth, from choice Transplanted Stocks. v3-11-24t

SAFER THAN OIL LANDS!

FOR SALE

L OT 1, Kerr Tract, Township of Brantford, containing 110 acres in the highest state of cultivation. This farm is about nine inites from Paris and Brantford.

Apply (if by letter postpaid) to

ROBERT REDPATH, Mohamk, P. O:

THOMAS B. McMAHON, Solicitor,

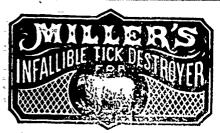
Also for sale North west part let 13, 11th Con., Burford. 50 acres T. B. McMAHON, Solicitor, Branford. Apply to v3-15-4t.

COWS WANTED.

PARTY Intending to commence a large Dairy, wishes to part have a number of GOOD COWS, to caree next Spring. He will take them now, or at the end of the grass season. Those having good milkers to dispose of, will please address. "Dairy," Canada Farmer Office, Toronto.

1st Sept., 1866.

10:17:0



CERTAIN cure for Tick, and all skin affections in Sheep. No flock master should be without it.

Prepared only by

Toronto, Jan. 1.

HUGH MILLER & CO.

Chemists, Toronto.

MORETON LODGE, near Guelph, C. W.

SEVENTH ANNUAL SALE

PURE BRED SHÖRT-HORNED AND HEREFORD BULLS, COTSWOLD, SOUTHDOWN, AND LEICESTER SHEEP, BERKSHIRE AND SMALL WHITE BREED OF PIGS.

MR. W. S. G. KNOWLES has received instructions from Mr. Fredk. W. Stone to sell by AUCTION, at MORETON LODGE, On Thursday, the 13th day of September next,

Without Reserve, a number of very promising young Hereford and Short-horned Bulls, Fifty pure bred Cotswold, Southdown, and Leicester Rams, also, a few Pairs of Southdown Ewes, together with the whole Plock of I cleester Ewes and Lambs (as Mr S. has determined to give up breeding Leicester Sheep) and about twenty-five pure bred Berkshire and Small White treed of Pigs, Boars and Sows.

EF LUNCH AT NOON. TER

Sale to Commence promptly at One o'clock.

TERMS.-Under \$25, Cash, over that sum, three months could on superoved endorsed notes. If required Catalogues may credit on approved endorsed notes. If required, Catalogues may be had on application to MR. KNOWLES, or MR. STONE.

Moreton Lodge, Gue'ph, C. W., 9th Aug., 1866. v3-16-2t

THE GREAT CONQUERING PRESENT? The service of ANGLO SANON, will be given free of charge, during the Fall Season to some of the best has mares oftering, not more thin one from any County will be taken free, the number is limited to twinty. Anglo saxon is the most useful, most valuable and most perfect horse ever owned in Canada; he has gained all the honours that Ca ada can place on an animal. His stock took the 1st, 2nd and 3rd prizes at the last Provincial Emittee. The best judges say that we cannot import a more suitable horse for the improvement of our stock. Terms of service for other mares, \$5 down, \$20 when in foal, and \$25 in three years if cold 18 kp to a stailloin. He will be at Mr. Grand's Hoyal Horse Bazzar in Toronio, from 24th to 25th of September See Farmers Adrecate, or apply to W. Weld, Delaware, C. W. v3.17 it



For Sale by,

J. B RYAN

Importer of Hardware, 114 Youge St.

IMPORTANT TO STOCK BREEDERS.

FOR SALE

PiGHT splendid Durham Buil Caives from 8 to 10 months oid.
by Baron Solway, and Baron Renfrew, 2 Galoway Buil
Caives, 20 Leleester, and Cotswood Sheatling Rame, and a large
number of Ram Lamba. Look for them at the Provincial Fale.

JOHN SNELL,

LANDS FOR SALE.

TWENTY THOUSAND ACRES OF LAND, both wild and improved, and at all prices, for sale in various townships throughout Upper Canada, cheep and on easy terms.

For lists and particulars, apply to the proprietor

T. D. LEDYARD, Barrister, &c., South-west cor, of King and Yonge-sta, Toronto,

Toronto, Oct. 2, 1864.

v2 19 tf

Markets.

Terente Markets.

"CANADA FARMER" Office, Sept. 1, 1866.

The produce market since our last issue has been dull and without animation. Transactions have been principally confined to small lots to satisfy the demands of local corsumption. Flour in sympathy with wheat has slightly advanced; dealers however are apart in their views, and few transactions have therefore taken place. No. 1 superfine has been offering at from \$6 to \$6 30. Extra sold at \$6 60. Superior at \$7. Wheat, owing to the bareness of supplies has been more in d mand, and prices have advanced. New midge-proof has been offering at from \$1 30 to \$1 35. Buyers will, however, not take hold at these figures. Barley has been offering on the afreets only sparingly. Sales are reported at from 40 to 50c. These galacs, it is thought, will be well maintained as the wason a trances. American buyers being in the market, who are as an You, 25 over 10 procure our Barley, particularly the choicer samples,

Flour.—Receipts 34 bags; market improved; sales 100 barrels No. 1 superfine at Weston at \$6 \$6 15 offered for good No. 1, without transactions. Some enquiry for good extra, from \$6 40 to \$6 50. Sales, 100 barrels middling flour, at \$6 40. What.—Receipts 370 bushels. Sales, 180 bushels new midge-proof wheat at \$1 26. No spring wheat offering.

Outs—Receipts 1,809 bushels. Offering at 34s without transactions.

Barley—No receipts by waggon.

Provisions—Dull No transactions of importance reported.

Hamilton Markets.—August 28.—Gmin Market.—Fall Wheat—Winter-Wheat, \$1 25 to \$1 35; Rol Wheat \$1 20 to \$1 25. Spring Wheat, \$1 to \$10. Barley, 45c to 60c. Feas, per bush, 45c to 50c. Oats, 31c to 33c. Corn, per bush, 60c to 65c.; none offering. Wool, at 36c to 374c.

Galt Markets — F. W. flour, per 100 lbs \$325. Sp. W. flour do., \$2.75. Fall Wheat per bush., \$1 10 to \$1 18. Spring do per bushel, \$1 to \$1 68. Barley, do., 40c to 45c. Oats, per bushel, 25c to 25c. Butter per 10, 13c to 15c. Eggs per doz., 10c to 125c. Apples, 500 to \$1. Wool, 375c to 38c.

Guelph Markets.—Fall Wheat, per bush, \$1 30 to \$1 35; Spring Wheat, do, \$1 30 to \$1 33; Oats, 30c to 31c; Fras, 50c to 55c; Bartey 40c to 45c; Hales, per 100 lbs., \$650; Woot, per lb, 34c; Eggs, per dozen, 10c.

Montreal Markets.—Laidlaw, Middleton & Ca, report—
Flour—Receipts, 3,300 bris. Market quiet. Sales of fancy at \$6
25 to \$6 35; Welland Canal superfine at \$6 40; good Canada at \$6
40, Strong at \$6 60 to \$6 75. Wheat, no sales. Oats, small sales
at \$7 50 ex-store. Peas and Corn, nothing doing. Asiaes, first pois
at \$5 60 to \$5 65; inferiors fat \$5 10 to \$5 20; that pearls at \$6 75
to \$6 90. Pork quiet. Butter dull; sales 15c to 16c.

Oswego Markets.—Aug 28.—Flour—Market unchanged. \$1050 for brands from No. 1 spring, \$12 from red winter, \$13 from white, and \$14 to \$1450 for double extra prime white wheat. Grain—What dell with no sales to report. Frice of No. 1 Mil wackee club is nominally unchanged. Buyers and sellers are apart in their view. Club on private terms—selling in car lots at \$2.25. Corn offered at 75c for No. 1 Illinois, with 75c bid.

Boston Markets.—Flour—The market is firm, with a fair demand; sales of Western superfine at \$7.50 to \$8.50, common extra \$0.25 to \$10.50, medium do \$10.75 to \$12; goodand choice do \$12.50 to \$10 per bbt. Grain—Corn dull. Small sales of Western Southern yellow at 98c to \$1.03; Western mixed 91c to 93c per bush. Oats are in steady demand, sales of Western at 45c to 50c, Northern and Canada 78c to 80c per bushel. Hye is selling in small lots at \$1.0 \$1.10 per bushel. Shorth are scarce at \$3.0 to \$21; Fine Feed \$54 to \$55; Middlings \$53 to \$59 per ton. Provisions—Took is firm; sales of prime at \$.9 to \$50; mess \$33 to \$50; clear \$3.70 to \$40 per burie cach. Hely is scarce, sales of mess and Catta mess at \$0.00\$17 per bartel, cals. Larl is relling at 10 to \$25; an an at 215; to 25 per pound, cash.

at 13c to 25c, than sat 21½ to 23c per pound, cash.

New York Produce Market.—August 30—Cotton quiet at 33c to 34c for iniddling uplands. From—Receipts, 9,956 brits. Market 10c to 25c lower for choice and inferior/grades, white medium grades are scarce and rule steady. Sales, 7,200 briks, at 55 30 to \$7 80 for superfine State; \$6 20 to \$8 90 for extra State; \$9 to \$10 25 for choice; \$5 25 to \$7 80 for superfine Western; \$6 75 to \$7 50 for common to medium extra Western, \$8 40 to \$10 for common to good shapping brands extra round hoop Ohio. Canadian flour quiet and nominal. Ryo Flour rather easier. Sales, 600 briss, at \$5 50 to \$6 25. Wheat—Receipts, 330 bushels. Market dull and 2c to 3c lower. Sales, 28,0.0 bushels, at \$2 for mixed Milkwaukee and good Chicago spring; \$2 70 for new amber State and No. 1 Milwaukee on private terms. Ryo—Receipts 15,-700 bushels. Market quiet. Barley—Receipts, none. Market duil. Corn—Receipts 291, 728 bushels. Market 1c to 2c lower sales 143,000 bushels, at 75c to 50c for inferior, 80½ to 81 for white Western. Odst—Receipts, 13,255 bushels. Market heavy and 1c lower. Sales 52,-000 bushes, at 40c to 46c for Chicago, 46c to 50c for Milwaukee. 50c for Green Hay, and 55c to 56c for D. Laware. Thrk quiet and irrecular. Sales, 2,250 barrels, at \$2.70 to \$32 ll ½ for new mess, closing at \$2.75 cash, \$30.50 to \$31 for 10d ds.

**Eastest Markets.—Flour closed 10c to 25c lower for choice.

liam', and a large Provincial Ful10HN SNELL,
16Hm of the Markets.—Flour closed foc to 25c lower for choice and inferior grades, and steady for medium grades. Wheat closed dull and 2c to 4c lower. Corn closed heavy, and 1c to 2c lower.
17 Pork closed quiet and irregular; new mess \$32.75, cash. Large with the closed dull and heavy, at 18 %c to 20 %c.

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