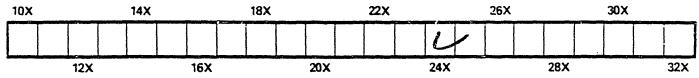
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## Agriculturist, Canadian

OR

## JURNAL AND TRANSACTIONS OF THE BOARD OF AGRICULTURE

OF UPPER CANADA.

OL. XII. . .

**z.**....

TORONTO, AUGUST 1, 1860.

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#### August.

The earlier part of this month will be occud with the finishing of harvesting operations. the present date probably the greater part of fall wheat in the country has been secured. s gratifying to find that as additional intellireceived of the progress of harvesting t the anticipations of the bountiful character the yield are nearly every where confirmed. e weather has been exceedingly favorable the work of the season, so that we have son to believe not only that the crops of all is will be good, but that they will be got the barns and stacks in very fine condition. are glad also to find by late arrivals from ope that the character of the season there much improved, and that a'though an avercrop can now scarcely be anticipated, it will probably he much better than could have heretofore hoped for.

osides the harvesting operations the most ortant business of this month will consist in preparation of land for fall wheat, preparato sowing, at the end of the month, or ming of September. The result of the past seasons has done much to distal the direful phensions that our farmers were led to enterfrom the reports from other quarters, of esistless ravages of the wheat fiy. Either rultivation of our farms in this portion of ern Canada, is cleaner and better than in districts where the fly has heretofore so letely destroyed the crop, and where in not aware that the farmers in that district were

many cases it was the practice to sow wheat year after year on the same land, so that the insect is not propagated here so rapidly; or the favorable character of our soil and climate enables us by sowing early to get thead of the midge, better than they could do in those sections; or, again, the past two seasons have been peculiarly favorable for outmanœuvering the midge, and we have not yet seen the worst of it, but will learn to our cost hereafter what it is capable of doing. We do not wish by any means to lead any of our readers into the mistake of treating the insect with contempt, and sowing wheat as recklessly as heretofore; but we confess to entertaining the opinion, that with due attention to the requisite conditions of soil, to a proper system of cultivation and rotation of crops, and to other necessary precautions and requirements, fair crops of fall wheat may still be obtained, notwithstanding the prevalence of the midge. The chief conditions requisite are, that the land should be fertile and in good heart, that it should be of a day and porous character naturally, or artificially as well drained as circumstances will permit, and that the wheat should be sown early, and be of an early ripening variety. We admit that in the Newcastle district, where there are some of the best Canadian farmers, and where the midge appeared several years earlier than in the counties adjoining and west of Toronto, they were obliged to give up sowing fall wheat almost altogether, and resort to the kinds of spring wheat which will bear sowing late. But we are

No. 15.

impressed particularly with the importance of have ripened as much later than the crops grow sowing early, and early varieties of seed. as a from the native seed. means of escaping the depredations of the insect. Had they been, we are of opinion that they would not have been compelled to abandon fall wheat culture so entirely as they did. In fact, the idea of sowing very early ripening varieties, and the mode of obtaining them, viz. : by bringing seed from the South, is comparatively recent. In New York State, in Genesee valley, and other wheat growing districts, though aware of the advantages of sowing early as a means of avoiding the midge, they were afraid of sowing too early, for fear of the autumn operations of the They were thus between two Hessian Fly. encinics, and the Genesee valley, so long famous for the excellence of its crops of wheat, was on the point of abandming the culture of that grain. And here is another reason why we think that the comparatively better system of cultivation pursued by our farmers, as compared with that in some parts of the adjoining States and in Lower Canada, where these two insects have been so destructive, or some favorable peculiarity of our climate, may have something to do with the different results here. For although the Hessian Fly had been the means of almost entirely preventing the growth of wheat in some other places where it had appeared, we did not find that it committed very serious damages here, and after the first year or two the alarm in reference to it quite subsided. De this as it may. however, since they have hit upon the expedient of getting early ripening varieties from the south, the farmers of Genesee valley have found, at least the experience of the past year or two goes to show, that they can sow late enough in the fall to escape much damage from the Hessian Fly, and yet have the grain come into bloom sufficiently early in spring to avoid also the other enemy.

There is still some difference of opinion upon the question as to whethe wheat to ripen early should be brought from the North or the South, and many persons are quite surprised on hearing it said that it should be obtained from the latter direction. This is a very important point and should be established satisfactorily. Nucerous facts support the opinion in favor of the South. Samples of the same variety brought from the South have riponed a week or ten days earlier,

The reason is, that the plant in the South acquires a habit of coming early to maturity, and this constitutional tendent adheres to it, for some time, notwithstanding the change of location, but gradually loses fore, and after a few years the variety becomes natralized, and ripens at the same time as the other native varieties.

The proper preparation of the land provide to sowing, will consist in keeping down week and stirring the soil, by the use of the vlough cultivator, or harrow, drawing out the manual åe. The amount of cultivation to be given as whether it should be deep or shallow, will depend very much upon the nature of the soil, and are the cultivation it has already received during the season. On strong loamy clays, or still clar. there is no preparation for wheat so much take depended upon as the thorough summer fallor Such land should receive at least one, if not to pretty deep ploughings during the season, see to bring up the subseil, and expose it to the k tilizing influences of the atmosphere, and that give the plant plenty of depth for the roots, of to facilitate drainage. After two such : logà ings the remainder of the cultivation may a sist in stirring the surface with a light plouzhe gang of ploughs or cultivator, and working ink manure, if any is applied, till the time for ridge for the seed arrives. Such soils may a'so in duce a fair crop of wheat, if ploughed up for sod the previous autumn or spring, and so thickly with peas for an intervening crop. I the peas can be got off about the 1st of Aug there would be an advantage in ploughing t land as soon as possible afterwards, to press the danger of baking in case of very dry weath and it would then keep in good conditiont riding at seed time. In case of sowing wike after peas, a light manuring will be more use sary than after the thorough failow, though either case this will depend upon the conditi of the land as to fertility, and the previous on of cropping. The manure should be previat decomposed by turning into heavs, or by a posting, in order to ensure the destruction weed seeds, and covered in with a light sta ploughing previous to drilling or ploughing the seed.

In soils of a lighter character than those the first year, and brought from the North scribed, that is of a more loamy or porous a racter, the thorough summer fallow is not so [ requisite, except in case of the land being foul with weeds. Such Land may be ploughed up after taking a crop of clover, or free pasture, in July, and be got in good order for sowing by 1st September; or the ploughing may even be left all just before sowing, and by the use of the land presser the edges of the furrows pressed down to prevent the grass springing up, and a good bed male for the seed, where it would be well covcred by the harrow. If such land is in good heart, and has been well manured for the clover, a good crop of wheat may be obtained without further manure. Or such clover ley may be sown to peas in spring, and got into good condition for wheat with a single ploughing afterwards. In the latter case, or in case of any other summer crop having been taken, a light dressing of manure would be advisable. For a short fillow from clover ley on a loamy soil, the Oshawa Manufacturing Company's Skim Coulter Plough is a capital implement. It buries the sod completely from the light and air, and secures is thorough decomposition in much less time than is done by the ordinary plongh.

### Editorial Correspondence.

## [No. 3.]

THE GREAT NATIONAL AND AGRICULTURAL ENHI-BITION OF FRANCE.

PARIS, June 23id, 1860.

This immense display of the agricultural prolactions of France and her colonies has been yen for the inspection of the public during the recent week, and will close to-morrow, (Sunby) when free admission will be granted to all do may be desirous of entering these truly cautiful and extensive grounds. Hitherto the har e for admission has been a frane, (about a th of a dollar,) and it is said from forty to by thousand have each day entered the encloste, besides large numbers having a right of ee ingress. It is impossible in the hurry of 10 moment, and within the limits of an ordinary mmunication to convey to our readers any lequate idea of this great gathering ; I must be mtent to state a few of the more prominent ets which came under my own observation.

This Exhibition is purely French; all the live the eye a ock having been bred in this country, and the French as real and other productions representing the this kind.

capabilities of the different soils and climates of France are all of native growth. The only exception I could learn relates to the department of implements and machines, in which there are several specimens of some half dozen of the most eminent British manufacturers. A similar exhibition to the present, but on a much smaller scale, was held in this metropolis in 1855, but it attracted comparatively little attention either in town or country. In the following year an extensive international exhibition was held, in which the live stock and agricultural productions of the British Islands occupied a prominent position; and it would appear, that the unfavorable contrast thereby produced, aroused the energy of the French people, and gave a new impulse to their agriculture, the fruits of which are so pleasingly apparent in the present exhibition.

In regard to completeness of arrangements, cleanliness, beauty of appearance, and other such adj. nets, this show vastly exceeds any thing that I have ever seen, or even imagined. The space occupied comprises several acres of the most beautifully ornamented grounds attached to those of the Tuilleries, which constitute such an attractive and lovely feature of this really splendid city. In the Palace of Industry, a noble permanent structure, in which the former World's Exhibition was held, the cattle are most conveniently arranged according to their respective breeds, and the centre of the building consists of green sod, ornamental water, fountains, and a rustic bridge, with shrubs and collections of the choicest and most carefully cul-Straw mats even are put for tivated flowers. the cattle and horses to repose on, and the most sedulous attention is paid to cleanliness. The capacious galleries above are devoted to the reception of grains and the numerous productions of the soil, with the lighter and more highly finished tools and machines. Out of the Palace are two immense ranges of stalls for horses, with excellent arrangement for sheep, pigs, and poultry, and the larger kinds of agricultural implements and machinery, so truly characteristic of an advancing husbandry. In short nothing has been spared in the way of expense and artistic design and finish to make this great exposition of a nation's industry, as attractive to the eye as it is instructive to the mind. The French are unquestionably au fait in matters of

According to the Catalogue,--a h ge volume ; cattle is 400; amounting in the aggregate ; of some 700 pages, for which I paid only a franc,--there are near 1500 entries of cattle. Of these 168 consist of pure Durhams; 146 crosses by a short horn bull; 30 other crosses by Ayrshires and others: 50 pure Ayrshires; and only 10 of Herefords, Devons, &c. Now | although no English stock formed a part of the Exhibition, yet it was obvious enough to the most superficial observer, that the classes above enumerated were derived from British blood. The pure French breeds consist of 870 entries, in which the Norman and Bretonne greatly predominate. There are specimens of near twenty other native races, with which having no practical acquaintance, I can offer no decided opinions. In each class there are many excellent animals ; well suited no doubt to the varied soils, climate, and markets of this great country. The pure British breeds being now fairly introduced are certainly destined to make progress; and there are many admirable specimens of the advantage of a cross between these, more particularly the Durhams, and the native French cows. The Norman tace are fine and large, resembling in some respects the short horn, with which they form an admirable cross. It is probable that several of the French breeds would succeed in Canada, and make profitable animals: but experiments of this kind it would not be advisable to try on a large scale, while we can have unlimited recourse to the improved breeds of the British Islands. The Charolaise and Nivernaise cattle are compact and symmetrical. and evidently have good feeding properties, and their flesh, I am told, is of excellent quality. The show of Breton cattle is very large, and consists of numbers of beautiful little cows, black and white, much resembling some of the small breeds of Wales. Among the short horns may be seen a number of what even in England would be called good animals, and the same remark applies to Ayrshires. The Dutch breed, consisting of black and white, so admirably adapted to dairy purposes, are well represented. The Swiss breed, mostly of a dun color, appear to possess many good points; some of the balls are of large size. The Emperor's cattle from the Imperial farms in the neighbourhood of Paris, occupied a distinct place; consisting of some good specimens of Shorthorns, and also, as far as I can judge, of Bretons, Normans, Swiss, &c.

The number of prizes awarded to horned

upwards of £6,000 sterling. Besides the most, each first prize has appropriated to it a Gal Medal; the second a Silver, and the thirl: Bronze one.

It is agreed on all hands that France is man ing considerable progress in sheep farming, by in long and short wools. The number of entils in this department is 546; and the total ameof sheep is not far short of 1300. In Frage wool is the principal object sought for, while England the carcase is regarded as of primaimportance, and it will usually exceed in well that of France as to two one. The Meride and Saxons are largely bred in France, at yield a fine, valuable wool: and it is estimate that at present one-fourth at least of all t sheep kept in this country consists of Merico [ learnt from reliaf either pure or mixed. sources that of late years the French have ma aged to increase the weight of the carcass will out injuriously affecting the quality of the flete which of course has been proportionately : creased in weight. The entries of the pa French Merino number 187, while the cross amount to no less than 148. Some 30 entiof other native breeds are present, some which appear inferior, though from wasa practical knowledge respecting them, I can ie. but a very imperfect judgment. The fore breeds are almost entirely English. In Leia ters there are 25 entries, with only a solia specimen or two of Cotswolds and Lincola The short wools consist mainly of Downs; a nearly the whole of the cross breeds were ; by English rams. Although the class of sta is in many respects positively good there as number of animals decidedly inferior, while should not have found a place in a nation show; a remark that will apply to all the ok departments of live stock. I have seen bee specimens of the Leicesters at our Canad Provincial Shows; and the Downs will not the pare with such flocks as Jonas Webb's, 1 Rigden's, the Duke of Richmond's, &c. It evident, however, that the French are now perimenting in regard to sheep in an earch and enlightened spirit, and that this departm of husbandry is rapidly improving in that f country and climate.

The Pigs are not numerous, only 240 ente -but the quality is decidedly good. Only lelong to the French breeds, some few of Norman and Ardennes appear to possess some | duable properties, but the majority are indiffer ent. The English breeds have redeemed this department of the Exhibition from decided in feriority.

The goats and rabbits deservedly attract at tention, and the show of poultry, including igeons, pheasants, pracocks, guinea fowls, &c., mounting to upwards of 800 cages, is a decided access. The dry character of the climate and the great demand for eggs are favourable to bealtry leeping; and the numerous specimens of Cochins, Spanish, Bramahpootras, together with several native breeds, impart a high chaacter to this department, which seems almost s attractive to gentlemen as to ladies.

I have almost forgotten the Horses, which institute so prominent a feature of the ex-Bition. Till recent!" this useful animal, I unerstand, was not admitted into the French hows. On this occasion the horses amount to early a thousand, comprising all the distinctive weds of the differnt Provinces of the country. he way in which the animals are housed and nown is admirable, securing the most perfect canliness and safety, and affording visitors the mplest opportunities of observation. The prejums offered in this class amount to upwards f £8,000 sterling. There are many animals of heh breed that possess great merit, and a good lection for draught, the carriage, or the sade, could very readily be made. A special class provided for mules and asses, with premiums the amount of £300; some of the males of e latter are of extraordinary size, and comand high or rather fabulous prices. lf I am rrectly informed some of these stallions will tch from one to three hundred pounds each; ey are chiefly employed for the breeding of ules.

The Implement department is very extensive, mprising about 4,000 entries. Some of the l French ploughs and implements are really riosities, and belong rather to the history of ricultural mechanics than to the great adnces that have been made in modern times. agricultural machinery France is yet far bed: her best tools and implements being in a at degree mere copies of English and Amern inventions. But no one could examine this nense collection without perceiving that a sh impulse has recently been given in the dition of improvement, and the unwieldy pearance of the disease, the cattle affected and

wooden ploughs of the past, are beginning to make place for lighter and far more effective implements, chiefly constituted of iron. The very small farms, however, into which the country is cut up, must continue to operate against the introduction of machinery on an extensive scale.

I must here cease for the present. The hurry and noise incident to these occasions render it difficult for one to collect and communicate on paper his thoughts. I may have occasion to revert to matters connected with this country G. B. and exhibition in my next.

### Pleuro-Pneumonia.

At a meeting of the Executive Committee of the New York State Agricultural Society, held on the 21st June last, Col. B. P. Johnson, Secretary, read a report of two visits he had made m the beginning of the month to Massachusetts (in the last of which he was accompanied by L. H. Tucker, Treasurer, and Professor Porter, Chemist to the Society), for the purpose of inquiring fully into all the facts connected with the cattle disease there prevailing, and to ascertain as far as practicable, the best probable means of arrest-After glancing at the facts connected ing it. with the origin and progress of the present outbreak of the disease, which have been given pretty fully in late numbers of this journal, the report proceeds to recommend isolation of the diseased cattle, as a means of repelling the distemper, and expresses the opinion that with this means at hand there is no great occasion for the extensive panic which has prevailed on the sub-The report recommends that every preject. caution shall be taken to prevent the introduction of cattle from diseased localities into the State, and also expresses the belief that the means taken to repress the disease in Massachusetts will prevent its progress west of the Connecticut River in that State. Should this turn out to be the case we shall have much cause for thankfulness in this province, but in the mean time it is important that we should become fully acquainted with all the facts relating to the disease, so as to be prepared to act when neces-The report says :-sary.

From all we could learn we were led to believe, that if in the commencement or first apthose exposed are entirely separated from and remedies if any case of the disease in quesothers, and remain so, under proper treatment, in clean, well ventilated stables, or in pasture, until all symptoms of the disease are cradicated, or the animals slaughtered and buried, that the disease may be arrested, as it has been frequently in England, Australia, Europe, and in this country.

That the disease is contagious, and under certain circumstances infectious, seems from the evidence to be established. We have seen no evidence that the disease is propagated in any way but by contagion or infection. There are, however, those who believe differently; but in Massachusetts, where the disease has been most prevalent, we think the opinion is nearly universal, that the disease is contagious.

Admitting that isolation of the intected cattle will stop the spread of the disease, it seems probable, (that, if the Massachusett laws are prometly and rigidly enforced, as it is believed they will be,) the disease will not hereafter cross the Connecticut river. So far as we are able to learn, there is no satisfactory evidence before the Commissioners, of any animal diseased passing west of the Connecticut River in Massa-chusetts. We hope this may prove to be so, as it greatly lessens the probability of the disease valence of Pleuro-Pneumonia in the adjoinn: reaching our State from that direction.

After the reading of the Report, and a full consideration of the facts embodied in it, the quite novel, and appears to be successful with following resolutions were adopted by the Board :

Whereas, An unnecessary alarm is believed at present to prevail in relation to the probable [ spread of the Pleuro-Pneumonia now existing in Massachusetts: and whereas, other milder and more common complaints are likely to be mistaken for it: and whereas, the symptoms of the disease are not only distinctly marked, but very plainly pointed out in the Report received from the Committee of the Society, who have recently visited the infected districts ; therefore

I. Resolved, that in view of the highly contagious character of the Pleuro-Pneumonia, the chief and perhaps the only safety for the farmer in case of suspicion, lies in the isolation of his cattle as completely as possible from all contact with each other and with those of his neighbors.

II. That by the adoption of this course there are within the reach of every farmer, the means of restraining the Pleuro-Pneumonia should it appear within the limits of his own herd: and that, for the information of the farmers of this State in regard to the disease, the Report be printed for general circulation.

III. That the President and Secretary be a committee to designate one or more persons practically conversant with the Pleuro-Pneumonia, who may be consulted in case of suspicion in any part of the State, at the expense of the parties applying for such assistance, to dispel use in every hothouse; a small furnace be the suspicion at once if it proves to be unfound placed at the rear of the building, and the ed, and to recommend the proper precautions | carried round three sides of the room by ab

tion should actually be found to exist.

IV. That we warmly appreciate the di-inteested efforts made by the State of Massachusets to prevent the extention of this disease to other States; and that the thanks of the New Yor State Agricultural Society are hereby returneto the authorities of that common-wealth, and that a copy of these resolutions be addressed by the Secretary to his Excellency the Governor of Massachusetts.

### The Turkish Bath as a Cure for Lung Disease in Cattle.

We copy from the Irish Farmer's Gazette the following extracts from the report of a conmittee appointed recently by the Royal Agrical tural Improvement Society of Ireland to inquire into the utility of the Turkish Bath in cases of cattle distemptr. We noticed this subject briefs in our last, and consider it of sufficient interest and importance, particularly in view of the pre-States, to deserve some further space in or columns. The mode of treatment adopted is other animals, as well as cattle, and for othe forms of disease than lung distemper. We as of opinion however that some further experience is required, to test the benefits of the treatmer satisfactorily to the public. We shall look & further reports on the subject. The following are the extracts from the report in the Gazette

"On the morning of Friday, the 15th inst we proceeded at an early hour to St. Ann' Blarney, by appointment with Doctor Bane who received us very kindly, and spared t pains or trouble to place us in possession of a details that we considered calculated to the light on the subject of our inquiry. After have conducted us through the portion of the estalishment appropriated to the use of his nume ous patients, and briefly explained to us the princi de and construction of the bath as us for the human subject, we proceeded to viewl cattle bath, constructed in a range of buildin in his farm-yard, which we found to consist two apartments, each about 15 feet squa opening one into the other, the inner one be the hot room or bath, and the outer a cooli room, where cold or tepid water can be throover the animal after coming out of the? room, as will be presently more fully explain The heating process applied to the inner reis very simple, and is nothing more than it

Lae, care being taken to keep the flue raised off, from the one already described, excepting that the ground by the use of large tiles bridged on the fire is placed in the outer, or cooling, room, the oate: wall, whereby the radiation of heat is the property of Mr. Jefferies and one that of a prevented and fuel still further economised. A tenant of his, named Forest, living near, strong rail, about 31 feet high, running round Nos. 1 and 2 were well bred dairy cows that the interior portion of the apartment, to prevent had been only under treatment two or three time of our visit: but our attention was drawn ing, and a short cough. No. 2, a roan cow, to the following recent cases of disease, all of was also settering under similar symptoms, but which had been successfully treated with the not so severely as No. 1. bath, and without the use of any medicine whatever.

Two dairy cows in full milk, about three ] had manifested themselves, in the rapid drying up of the milk and subsequent quick respiration. The use of the bath (two hours at a time) was ordered, at first three times, and when urgent symptoms were got under, twice a day; and under this treatment, at the end of the third day. a manifest improvement in the state of each was the result, and at the end of the seventh or sighth day the further use of the bath was considered nunecessary; and from this period the silk, which had all but entirely disappeared luring the violence of the attack, rapidly reurned: and at the time of our visit, being the 7th and 19th days respectively from the date of the first attack, we were assured by the man do regularly milked them that they were both a quite as good milk as they had been previous o their being attacked, and we had no difficulty n crediting this statement, as it would have been npossible to distinguish either, from any one f the 40 cows with which they were grazing, hether from the appearance of the udder or heir general healthy character.

We had also pointed out to us the several cows at were treated successfully during the last inter and early spring for distemper in the bath, ad they were all, without exception, in perfect ealth, and stated by the herd to be in as good rolit for the dairy as they had ever been preously. The diseased animals are not separated on the others, nor does any particular attenon to, or change of diet appear necessary.

We next proceeded to view a bath that has ion recently erected, under the directions of r. Barter, by Mr. St. John Jefferies, of Blaiy, and at which we were informed we should a several of his cattle under treatment. The uation for this bath has been well selected in retired paddock of two or three acres, well ded in, at a convenient distance from the

bricks, so that the air of the apartment circulates and over it is placed a large boiler. by which cand the flue, whereby a considerable saving of means various articles of cattle tood can be tael is effected. The walls of this apartment prepared and a constant supply of hot water are studded in the usual way, about an inch of kept, without any additional cost for fuel. The Lear space intervening between the laths and cases unor treatment were, in an, six ; five being

the a simals rubbing against or injuring the flue, days. No. 1, a red cow, was evidently suffering completes the arrangements. There were no severely from the attack, carried her head down, cattle or other animals under treatment at the moved badly, had a quie', datt on her breath-

No. 3, the property of Mr. Forest, was likewise under treatment for but three days, and was much reduced in appearance, and could not months calved, had been attacked with lung be said to be in a better way than her two comdistemant, one on the 27th and the other on panions. The above three cows were at large the 29th of May last; neither were put under in the paddock, and, after some time we noticed treatment until unmistakable signs of distemper the marks of recent bleeding on Nos. 1 and 2, the marks of recent bleeding on Nos. 1 and 2, and on questioning the man in charge, he informed us that both had been bled at the farmvaid previous to being sent to him for treatment. for no better reason, as far as he knew, than to "see whether it would be of any service" It is scarcely necessary to say that this treatment was very injudicious, and Doctor Darter stated that it was entirely contrary to his usage or advice in such cases, and that it must render their recovery slow and tedions.

> We next went to the bath and found two cows in it, one that we shall call No. 4, in the outer or cooling 100m, just after having had several buckets of water thrown over her on coming out of the warm room, and another. No. 5, was still in the hot room. No. 4 was one of those tedious, uncertain cases of distemper that every one who has suffered much from it among their cattle is familiar with. After the violence of the attack is over, the animal seems to stand still; there are no urgent symptoms, but no recovery. They become much wasted in con-dition, a shori hard cough remains, and you ieel uncertain whether they will live or die, and would almost prefer the latter, for any value they seem likely to prove. This cow had been for over two months under treatment, and for a long time with little or no perceptible improvement till about a week previous to our visit, when a copious discharge of thick matter commenced from the nostrils, which the bath seemed to encourage, and when we saw her there was an appearance of a considerable quantity having been recently discharged; she was still in very low condition, but the man in charge described her as much improved since the discharge had commenced, and stated that they had had even worse cases that had entirely recovered under the same treatment.

On No. 4 being turned out, we went into the myard. The bath differs in no essential part hot room to see No. 5 in the bath. We were

intormed she had been about an hour and a half ( constantly, and attached to it a box or stall in, had been eight days under treatment, and as | heated by a flue carried from the adjoining bath, we were able subsequently to satisfy ourselves, had scarcely a trace of disease about her, and the next day was to be returned to the heid cured. She seemed quite to enjoy her position, the perspiration was rolling off her freely, and her breathing was slightly quickened. She carried her head erect, her eyes clear and healthy, and when she was removed to the outer room to get her douche bath, no one could mistake the feeling of refreshment and pleasure that the dashing of each successive bucket of water over her seemed to give, and when she had been slightly rubbed down she was turned out to graze, the day being fine and warm. but when otherwise there is a shed close by into which the animals are turned after leaving the bath, to let them further cool and dry before being allowed out

The last case, No. 6, was a fine cow that had been about a week under tre-tment, but had been neglected for some time before being brought to the bath, and was quite in a hopeless state, breathing hard and in pain, and on examination we found that she was suffering from a complication of diseases other than lung distemper, as we ascertained that the air was circulating freely through both lungs, and we further ascertained that one of her most urgent symptoms, constipation, had been for two or three days entirely unattended to.

We next proceeded to the farm of Mr. Forest, one of whose cows we had seen under treatment at the Blarney bath, and for whom Doctor Barter had last winter put up in the end of a small outhouse a simple bath, which had cost him six pounds. This bath is similar in construction to the others we have described, but too small and faulty in its ventilation; for these reasons, since Mr. Jefferies' bath has been opened, he prefers, with his landlord's permission, sending any cows he may have in distemper, of which he seems to be never quite free, to the Blarney bath. Here we were shown two cows which, by all the persons who had seen them early last spring, are considered to illustrate the extraordinary surative power of the bath beyond any of which we have yet spoken. They were described to us to have been in a far worse state for a considerable time than the cow No. 4 mentioned in our description of Mr. Jefferies' bath. We saw both grazing with the rest of the dairy stock in full milk; one was in perhaps the best condition of any cow in the field (about 25 in number) and the other a heifer that had had her first calf at two years old, and was, in consequence (inde-pendently of her severe ordeal of last winter) in low condition, but healthy, with a clear eye and a smooth coat.

We next proceeded to Mount Desert, the residence of Nicholas Dunscombe, Esq., who this year holds the office of high sheriff of the county. Here we were shown a very elegantly constructed bath, which he and his whole family use matory diseases of the internal organs.

in which he is in the habit of treating any of his horses in sickness as well as those he wishes to improve in condition or general health. There has been a good deal of distemper going among horses in the district for some time past, and he informed us he had treated several in the course of the last spring with the bath alone, with entire success. Une of his carriage horses had been attacked very severely about four or fire days previously, and when we arrived wis actaally in the bath; the door was opened for us to see him, and we found him, as in the case of ! the cow at Mr. Jefferies', with the perspiration rolling off him, and evident marks about his nostrils and throat of the violence of the attackbut the groom stated that for the previous two days he had been on the mend, and expected that two or three more days of the bath would perfect his cure.

Mr. Dunscombe further mentioned to us the case of a favourite setter dog that a short time before had got a bad attack of distemper, and with it a lameness in the shoulder, tor which be He treated him with the could not account. bath, and after the third day a surfeit of boils broke out under the shoulder and on other parts of his body, and he rapidly got better, and is ten days was perfectly well.

One circumstance is worthy of remark, which applies to all the animals treated in the bath and testified to by the men in charge of the foudifferent baths we were shown, namely, the en dent pleasurable recollection the bath seems t leave with them; all the different animals, hor ses, dogs, cattle, and pigs going of their ow accord to the door of the bath, and dogs partic larly indicating their anxiety by waiting at the door whining till it is opened, and then running

This finished our inspection, and we now be to submit to your council the conclusions to which we have arrived from the above face and the information we were able to obtain i the course of our inquiries.

First, the proportion of deaths to recover in the treatment of cattle distemper with t Turkish bath does not appear to exceed onei ten, while the proportion that has been hither usual under other forms of treatment hus van from one death in 3 to 1 in 4 of the cattle: tacked.

Secondly, That the constitution is not h paired by the treatment with the bath as it is any of the other systems with which we are. present acquainted ; and that this fact is partir larly illustrated by the rapidity with which, every case, the milk almost immediately return on the animal being relieved from the disease

Thirdly, That in the treatment of several the well known serious diseases of the infer. animals, its use has been attended with them favourable results, and particularly in all infly

time we were able to devote to it, we neverthe-less feel that we have seen and heard quite enough to warrant us in commending the subject to the calm and serious investigation of these most vitally interested in the subject; and as a favourable opportunity will occur in the course of the next month, when the annual show of our society is to be held in Cork, within a few miles only of the spot where we have been witness to the results above described, we would strongly urge all parties interested to go and see, and judge for themselves.

We would also suggest to your council that much public interest and curiosity would be gratified by their accepting the offer some time succe made by Dr. Barter, to put up a bath in the show yard at Cork and exhibit the working and construction of it, and that the council do offer a sum of £20 to Dr. Barter to defray a portion of the expense of so doing, and we would further suggest that Dr. Barter should be requested by your council to deliver on the morning of the first day of the show, before the public are admitted into the show-yard, a popular lecture on the use of the Turkish bath in the treatment of the diseases of the inferior animals.

Lois Weedon System of Wheat Culture.

We referred to the ...ev. Mr. Smith's system f cultivating wheat at Lois Weedon, Norhamptonshire, England, in our last. The folowing concise sketch of his operrations is from n article on the "Principles of Manuring," in late number of the London Farmers' Magaine :—

"As a means of illustrating both the princiles and practical bearings of this celebrated putroversy, it is impossible to select a more pposite, instructive, or important instance than at presented by the well-known agricultural umph in successive and un-manured wheatowing achieved by the Rev. Samuel Smith, at The manner of his yearly cultiois Weedon. tion is as follows: At the usual time in ntumu, the seed is drilled in strips, which (consting, as each set does, of three rows ten ches apart) occupy thirty inches in width, and tween strip and strip there is left an unseeded ace of similar dimensions. During the growth the plants in the ensuing season, the rows reive sedulous attention in hand hoeing; while, the same time, the interspace between strip d strip undergoes a constant succession of rse-hoeing and other fallow operations. Next

Is conclusion, while we are far from thinking point of view, there is a perfect analogy between that a subject of such vast importance could be this expedient and a practice not uncommon on satisfactorily investigated in the very limited the heavy land of Essex, in which is pursued field by field the simple alternation of corn one year and bare fallow the next, to be again succeeded by corn, and so on for ever; but in various circumstances of detail, into which we shall not her, inter, the Lois Weedon methodinossesses a superiority very favorable to both. healthy and prolific cereat productiveness. Mr. Smith's experience in this mode of management. dates back to the year 1846. The area of his operations is comparatively small, being only The soil is above average quality, five acres. and consists of a staple of good wheat land, icsting on wholesome clay, and naturally dry. The implement used for inverting the soil is the spade, or fork, in place of the plow. The average yearly produce for twelve years, ending with crop 1859, has been upwards of thirty-six bushels per acre of prime marketable wheat; and the expenses of tillage, rent, &c., are as follows:

	5.	ð.
1	14	-0
0	6	0
0	4	6
0	5	0
0	3	0
0	2	6
0	5	0
0	4	0
0	3	0
1	13	0
2	4	3
£7	3	9
	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 6 0 4 0 5 0 3 0 2 0 5 0 4 0 3

Value of thirty-six bushels of wheat at an average price of 6s. 6d. per bushel.....£11 14

Deduct expenses as above.....

Annual profit per acre besides the value of the straw.....£4 10

One other element of Mr. Smith's practice still remains to be stated, (and on account of its paramount importance it has been reserved for special notice,) namely this, that in each summer fallowing of the interspaces a method of deep cultivation is pursued, by which the upper and under stata of the staple are stirred, and inverted to the depth of ten or eleven inches; and if it be asked upon what grounds was this trenchant and very thorough illage resorted to, the reply is, because theory and practice alike assured the experimentalist-lst, that usually in the soil, and ever in the air, there is abundance of nutriment for cereal crops, in proportion as the mineral and atmospheric elear these fallowed spaces bear the strips, and ments are brought into mutual reaction within estubble of the preceding year's crop is plowed | the pores of the soil, by perfect cultivation ; and and summer-fallowed in like manner. In one hence, 2dly, that by means of perfect tillage, the aid of adventitious fertilizing substances is commands a splendid view of the city, the bay, not indispensable to the profitable growth of corn. part of Lake Ontario, and of the surrounding

trial circumstance belonging to the present cen- vince finer than that chosen for the Hamilton tury is more entitled to deep consideration, than Cijstal Palace. The building will be of wood this brilliant, yet sound instance of tentative and glass, upon a permanent stone foundation. husbandry; nevertheless, in order to appreciate The entire area of the building is about 36,000 its true practical value, it is necessary to bear in mind, that as respects the happy combination of operative details of which it is made up, it consists of no principle or expedient in cultivation which had not been known and practiced eaves, with an arched roof of light appearance. before. As an example of cereal productiveness, At the intersection of the cross, is an octagonal procured without the intervention of cattle crops, | space 76 feet in diameter, and 54 feet to the lim what other unalternate system than this pre- of the roof, this portion is also arched in a most vailed in England, when, prior to the introduce substantial manner; the roof will be surmounted tion of roots and clover in rotation, she not only fed her own population with corn, but exported ground floor to the top of the dome is 100 feet. it largely to foreign parts? other than this, is the still existing policy in the cereal countries of continental Europe, which now so largely provide England with breadstuffs. As for the interculture of the Lois Weedon method, admirable and efficient as the expedient is, it can be regarded simply as an adaptation to corn tillage of that method of drill husbandry hitherto confined in general practice to the fallow crops only; while finally, the deep working, if not so generally prevalent as it ought to be, has long existed in many of the best-farmed dis-tricts of the island.

Now, the moral we wish to point out, in the foregoing statement, is this-that, from the case where, under sunny skies, and on a rich soil, the lazy husbandman has only to scratch a little covering of earth over his corn seed to produce an abundant crop, up to the elaborate processes of Lois Weedon experience, there is every variety and degree of evidence to show that wheat or any other kind of grain can profitably be raised by the power of tillage alone, and that the use of manures, whether obtained from the cattle crops of modern rotation husbandry, or from external resources, is not indispensably necessary to profitable cereal husbandry. Nay, more-from the practice of all nations it is deducible, that in proportion (within certain bounds) to the greater depth to which a soil is stirred, and to the perfect annual tillage it receives, the produce of that soil will be more abundant.

#### The Provincial Exhibition.

We take the following detailed description of the "Crystal Palace," and of the other works, now in progress of completion for the exhibition, from the Hamilton Banner. The description accompanied an engraving of the Palace, which appeared in that paper :--

"The Palace is being erected on the site se lected by the City Council, which fronts on King Street West, and extends to York Street. It September next.

In point of agricultural importance, no indus- country. There is probably no site in the Profeet. The ground plan is octagonal in form, having four transepts. The building will be two stories in height; the first story 16 feet in the clear, and the second 15 feet to the line of the with a cupola. The extreme height from the Nay, more-what A flag staff 25 feet is raised above the dome. The length of the building is 171 feet, by 71 feet in width, and contains about 24,000 feet on There are four galleries, 54 the ground floor. feet wide by about 64 feet long, with a corridor running round the centre octagon, connecting all the galleries; these galleries contain about 12,000 square feet ; four spacious stairways lead from the ground floor to the galleries. The diagonals which form the octagon are only to be carried up one story, with flat tin roofs-ac cess to which can be obtained from the galleries. affording a fine place for a promenade, and a beautiful view of the city and bay. One of the galleries will be fitted up especially for the ex hibition of fine arts-three sides of which are to be close-boarded, and the light to be admitted through the centre of the roof by a lantern-ligh extending the whole length, the glass to be frosted, or obscured in order to diffuse a mellor light. The whole of the glass throughout the building is to be frosted. All the windows the building are to have semi-circular head with cut trusses under the same. The whole d the wood work, in the exterior as well as it terior, is to be planed or wrought, together with the cornices ; these cornices are to be support at intervals with fine cut brackets. The builds is to be painted outside with a warm light cold or stone tint, in oil, and it is intended to pair the interior in fresco. The dome is to be co ered with tin, which will render the builds picturesque, and be seen a distance of sever miles around. The gallery flooring is to dressed and laid open, and the under side of t galleries lined with dressed boarding, to preve the dust rising.

The building was designed by, and is be crected under the superintendence of Mr. A.I Hills, architect, of this city. The contract for the crection of the building are Mr. J. T lor, for mason work; Messrs. R. Gordons W. & R. Chisholm, for the wood work: M George Smith, for the tinner's work. and Mes Fitzpatrick & Brother, the painting and glazz The cost of the building will be about \$14, It is to be entirely completed by the first In addition to the range, the framework into a line of the second solution in the constant of the second solution in the second solution is the second solution of the second solution in the second solution is the second solution of the second solution is the second solution of the second solution is the second solution in the second solution in the second solution is the second solution in the second solution King and Locomotive streets ; and another on Locomotive, fronting Little Main street. The | becomotive, nothing interest and stream and a stream strea be located, and several small gates will give 27th February, 1860.) admission to the grounds. The King Street SAMLL. TUCK, of t front is entirely occupied with stabling, all being separate stalls but two, which are double. There | is sufficient room for 100 horses, with half-doors to admit of ventilation, and give visitors a chance of seeing the horses in their stalls. The stables are sufficiently roomy and airy, besides having a good shingled roof and flooring of three inch plank. The cattle sheds will hold about 250, each stall holding three, and being secured with bars. The sheep and pig pens are now in course of erection at the west side of the grounds; they will be covered over with a board roof. The building for the reception of manu-proved Churn, "-(Dated 13th March, 1860.) factures in metals, machinery, &c., has not been commenced yet, nor the enclosures for the poultry. When completed, the accomodation will be found sufficiently ample, and the arrange | March, 1860.) ments all that could be desired. It will cervourite resorts.

### Patents of Invention.

Fion a list of Patents granted for a period of fourteen years, in the Canada Gazette of uly 14, we select the following as relating to agricultural operations :---

SAMUEL TUCK, of the Town of Sherbrooke, n the District of St. Francis, Iron Founder, for A new and improved cast-iron Ploughshare ith Steel point,"—(Dated 12th January, 1860.) CHARLES HORATIO WATEROLS, of the Town-up of Brantford, in the County of Brant, achinist and Iron Founder, for "An improveent in the application of Steam Power and in e manner of making such application for the a ose of moving and working Steam Ploughs, cam Fire Engines, &c., &c.,"-(Dated 27th nuary, 1860.)

hven McLAREN, of Lowville, Township of elson, County of Halton, Founder, for "An proved Straw Cutter,"-(Dated 9th February, 160.)

GIDEAN HUNTINGTON, of the Township of orth Norwich, in the County of Oxford, Iron under, for "A certain Gaug Plough, Cultifor and Sowing Machine combined,"-(Dated th February, 1860.)

In addition to the Palace, the Exhibition larton, in the County of Perth, Carpenter, for rounds will be attractive of themselves. The "An improved washing Machine," -(Dated

ANDREW MULHOLLAND, of the City of Quebec, with large entrance gates, one at the corner of Brass Finisher, for "A vertically rotating and Stationary Break Chun,"-(Dated 24th February, 1860.)

SAMULL TUCK, of the Town of Sherbrooke, Iron Founder, for "A new and useful manufacture, styled, Tuck's Cast Iron Sugar Boiler,"-(Dated 2nd March, 1860.)

THOMAS A. JEBB, of the Township of West Gwillinbury, in the County of Simeoe, Lawyer, for "An improved Churn,"-(Dated 7th March, 1860.)

THOMAS SCOTT, of Newburgh, in the County of Addington, Blacksmith, for "A new Cultivator,"-(Dated 7th March, 1860.)

DAVID LUSK, of the Village of Newmarket, in the County of York, Carpenter, for "A Blower for cleaning Grain, -(Dated 13th

MATHEW HENRY, of the Township of Camptainly be an ornament to our city, and the ton, Cabinet-Maker, for "A useful manufacture grounds will soon become one of our most fa- styled Henry's Concave Sugar Boiler,"-(Dated 19th March, 1860.)

WILLIAM FRASER COCHRANE, of the Village of Port Bruce, in the County of Elgin, Engi-neer and Millwright, for "An Atmospheric Flour Bolting Chest,"-(Dated 27th March, 1860.)

CHARLES HOLMES, of the Town of St. Catharines, in the County of Lincoln, Miller, for "An improved Grain Separator,"-Dated 27th March, 1860.)

JOHN BROKENSHIRE, of Bowmanville, in the County of Durham, Pump Maker, for "A double action wooden Suction Pump,"-(Dated 27th March, 1860.)

MICHAEL WALSH, of the Town of Perth, in the County of Lanath, Laborer, for "An im-proved Churn,"-(Dated 27th March, 1860.)

SAMUEL V. PERRY, of the Township of Ernestown, in the County of Addington, Me-chanic, for "A new and improved Machine for Thrashing, Separating and Cleaning Grain,"-(Dated 29th March, 1860.)

WILLIAM HOLTON, of the Township of Har-wich, in the County of Kent, Laborer, for "An improved Mould-Board for Ploughs,"-(Dated 10th April, 1860.)

SAMUEL HULBERT, of the Town of Prescott, in the County of Grenville, Founder, for "An Air Pump dash Churn,"-(Dated 19th April, 1860.)

JOSEPH PATCHING, of the City of Hamilton, JOHN Y. LAMBERT, of the Township of Ful- in the County of Wentworth, Brakesman, for "A new article styled "Patching's Car Ventilator,"-(Dated 19th April, 1860.)

THOMAS THORPE, of the Town of Guelph, in the County of Wellington, Joiner, for "An Air tight out-lifting Spring Sash window,"— (Dated 19th April, 1860.)

HENRY FRYATT, Junior, of the Village of Aurora, in the County of York, Carpenter, for "An improved Method of Opening and Shutting Gates,"—(Dated 19th April, 1860.)

WILLIAM HENRY MAGEE, of the Village of Merrickville, in the County of Grenville, Iron Founder, for "A new Method of constructing Ploughs,"—(Dated 19th April, 1860.)

JOSEPH JESSUE MACINTOSH, of the Township of Yonge, in the County of Leeds, Miller, for "A Grain Separator, styled "Macintosh's Patent Flue Grain Separator,"—(Dated 29th April, 1860.)

RODERT WALKER GRANT, of the Town of Brockville, in the County of Leeds, Tin Smith, for "An improved Churn, styled "Grant's Excentric Double Dash Churn,"—(Dated 29th April, 1060)

PHILIP CADY VAN BROCKLIN, of the Town of Brantford, in the County of Brant, Iron Founder, for "A combined Seed Drill Cultivator and Horse Hoe,"-(Dated 29th April, 1860.)

JOSIAN JAMES, of the Township of Whitchurch, in the County of York, Machinist, for "A universal Joint Walking beam for churns, and other Machinery."—(Dated 29th April, 1860.)

JOSEPH MILLARD, of the Village of Newmarket, County of York. Cabinet Maker, for "A screw regulating Cheese Press,"—(Dated 11th May, 1860.)

11th May, 1860.) HUGH SYM CAMPBELL, of the City of Toronto, Couaty of York, Contractor, for "An improved Churn,"—(Dated 11th May, 1860.)

HORACE A. COMBS and ASHMAN P. COMBS, both of the Village of Ontario, County of Wentworth, Yeomen, for "An improved double acting Churn,"—(Dated 11th May, 1860.) Joux C. McDougat, of the City of Toronto,

JOHN C. McDougal, of the City of Toronto, County of York, Machinist, for "An Octagonal Churn,"-(Dated 11th May, 1860.)

JOIN I. SHOTWELL, of the Township of Yarmouth, County of Elgin, Carpenter and Joiner, for "The Excelsion Churn,"—(Dated 29th May 1860.)

JOHN BERNARD ROBINSON, of Druminondville, County of Welland, Miller, and Jonn JAGO, of Mulmur, County of Simeoce. Millwright, for "An article styled the Robinson and Jago improved method of Bolting Flour,"—(Dated 30th May, 1860.)

ALANSON HAURIS, of the Village of Beamsville, in the County of Lincoln, Founder and Machinist, for "A combined Corn Sheller and Root Cutter,"—(Dated 30th May, 1860.)

JOSEPH ST. GERMAIN, of the City of St. Hyacinthe, Maker of Agricultural Instruments, for "A Balance Wheeled Horse Rake,"---(Dated 1st June, 1860.)

### Adulteration of Guano.

The Irish Former's Gazette of July 7th publishes a lengthy report of a case just disposed of at the Police Court in Dublin, showing the extensive frauds practised in the manufacture and sale of Artificial Manures. There is but little sale yet for guano or other artificial manures, except gypsum, in this country, but this and similar exposures show the necessity of farmers making sure that they get the genuize article, when they do resort to manures of this character; which will doubtless soon be the case to a much greater extent than heretofore. The Gazette says :—

"This matter is one of the greatest importance to agriculturists, and we believe our readers will all rejoice when they learn that the Crown has stepped forward in this manner to protect the public against those who are engaged in the netarious trade of compounding materials, which they vend under the name of guano, and by means of which such enormous frauds have been perpetrated. Too much praise cannot be awaded to the crown officers for the steadiness with which they have prosecuted the inquiry during the last two years. A great blow has been struck against frauds, not only in the guantrade, but also in other branches of business; and the prosecution of this case will have caused dismay in the minds of more than the mere dealers "in yellow clay and oyster shells."

The particulars of the case give us the entine secrets of the trade. We have the parties engaged in it as agents stating the prices at which they sold "the stuff," namely, £14 10% per ton although it would appear from the evidence c one witness, that even this sum was not suf-cient at first to satisfy the rapacity of the conpounders. Then we have a graphic descriptic given by more than one witness of the differer marls used, with the seasoning of "gypsur salt, and burned shells;" again, we have it evidence of the parties employed in the actu work, and what they did "when they want to rise a smell;" next appear on the stage to very individuals who have been fortunate enoug to find the Chincha Islands on their own farm then, again, the active police officers descrit how they watched the progress of what onewi ness innocently terms "trying experiments! making manure;" and finally we have the crus-ing evidence of Dr. Apjohn, who proves the this very satisfactory "manure," sold as Pervian guano, and at the price of Pernvian guas which gave good crops, "magnificeut crop was worth only £4 16s., instead of the £14 ll which was so very modestly charged for it.

This prosecution has given us more than us pleasure. For years past we have been warn the furmers of Ireland that vast quantities adulterated guanos were being annually s under the pretence of being genuine, and have repeatedly urged the necessity of acsteps being taken to protect the poorer and

intelligent part of the community-those who f were not in the habit, perhaps, of seeing such warnings, although well able to pay for the medium through which they were conveyed, as well as those who could not be expected to proft by them. We have endeavored to impress upon all the propriety of having samples of the artificial manures which they purchase analysed, from whatsoever source such might be derived ; and we have told farming societies that it was a part of their duty to protect their members, and the districts which formed the scene of their operations, by having recourse to the aid afforded by the professional chemist. The case of the Crown v. Creaghs-forming only one out of the many which will be brought forward-shows that our warnings were not uncalled for, and we trust will be a lesson inculcating caution for the future. As yet the case has only reached its preliminary stage-an important stage, no doubt, but still not the most important ; and considering the interests which are at stake, and the injury which has undoubtedly been committed on the public at large, we trust we will not be considered as interfering with the course of justice if we express a hope that, should the parties be ultimately convicted, they will be as severely panished as the law of the land will allow.

### Correspondence.

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### Wine Culture in Canada.

LEITORS OF THE AGRICULTURIST-With great leasure I notice in your last issue some comnunications on the subject of wine growing in The subject is not altogether new to lanada. Three years ago four or five barh's locality. els of wine were grown from a single vine in ne season in the Township of Grimsby. The rape is a native, and the wine very much resemles port, so much so, that persons tasting it or the first time frequently speak of the simirity. It is perfectly hardy and stands our addest winters without in the least destroying s vitality. I obtained a vine six years ago last ring, it now covers some forty feet square of ellis and I think has at least twelve hundred usters of grapes. The clusters are about the ze of the Clintons. The wine sells in this cality for one dollar and three quarters per "on, and probably would bring more if we ked it, at all events it is worth four times as wh as the miserable stuff generally sold by mmerchants under the name of wine. We tend to show our wine at the Provincial Fair is fall, and hope the judges will publish their We have in this part of inion of the same. nada a number of the new native grapes, a od representation of which will no doubt find eir way to the Provincial Fair this fall; and advise all who feel an interest in this imporat branch of our agriculture to keep their eyes de open, as they will be likely to see many ogs in this department that will susprise them.

and flavor with the far farmed black Hamburgh, and I think there is not the least reason to doubt but that we can grow wine in any quantity and of excellent quality. I have grapes that will measure to-day over two inches in circumference to the single berry, and number over fifty berries to the cluster. I fear that I am trespassing too much on your time and patience, but if you think these few thoughts likely to benefit your readers you are at liberty to publish them. If these remarks meet your approbation, I may give you some more of my notes on horticultural matters. JOHN C. KILBORN.

Beamsville, C.W., July 23, 1860.

[We are much obliged to our correspondent for his interesting communication, and hope that others who are in possession of similar facts will let us have them.—ED.]

### Things Seen, Heard and Thought of.

EDITORS OF THE AGRICULTURIST,-I will record several things-first, what I have heard; secondly, what I have seen, and thirdly what I have thought. As to what I have heard. Mr. James Scrogie, of the Township of Binbrook, has made some 900 yards of underground drain, 250 yards of this passed through a low wet portion of his farm, where he had lost in part several crops of grain on account of the superfluity of surface water. He has reaped two crops since he made the drain; the first of these crops consisted of corn and potatoes and gave a splendid yield. He took the first prizes both on corn and potatoes at the agricultural show of the four townships, viz : Barton, Glanford, Salt-Last harvest he reaped fleet and Binbrook. from the same land a crop of barley which yielded 57 ushels to the acre. So much for Farmer Kemp, whose underground drainage. farm adjoins mine, informs me that he last year gathered 150 bushels of barley from two acres of land.

I have generally As to what I have seen. observed among all kinds of grain that few are pure. A mixture of kinds seems by some means to take place. I sowed a year ago last fall what is called the blue-stem wheat, and last harvest I found that there were five varieties. Among these was a wheat, with a stout straw of a rather yellow tinge, a fine medium sized head, thickly set with grain with white chaff, and yielding more abundantly than any of the other I gathered a handful of varieties in the field. it, and planted it in the garden, and had the midge let it alone it bid fair to have given an extra yield. May we not often discover new varieties of a superior kind by thus going through the field and making a selection of the earliest and finest varieties?

de open, as they will be likely to see many ogs in this department that will susprise them. e have open air grapes that will vie in size taste and skill and success in all the arts and sciences, and handy works of man, are set forth | in England and Scotland, for Mangels, Turnipe, in all their splendor, much to the satisfaction, pleasure, and profit of the community. Then we have our plowing matches; and I have thought it would be wise for our county agricultural associations to get up a draining match, and that four handsome prizes be awarded to the men who shall dig the drain one hundred feet long, lay the pipe and fill it in, and do it the best and the quickest; that is to say, each man shall dig and lay the pipe 100 feet. As I have taken the writing of this for a noon-spell I must now bring it to a close. STEPHEN KING.

Ryckman's Corners, July, 1860.

#### Trial of Mowing Machines.

EDITOR AGRICULTURIST .- As duly announced, the trial of Mowing Machines under the direction of the West Durham Agricultural Society, came off in this place last week. There were seven machines at work.

After a thorough test, both as to manner of cutting and lightness of draught, the Judges were unanimous in awarding the first prize to H. A. Massey, Esq., and the second to Messrs. Patterson & Brothers of Richmond Hill.

We can assure manufacturers, that if they want to dispose of their machines or bring them into notice, they should attend these matches. Farmers attend expressly to see them work, and make up their minds accordingly.

At the trial of Reapers which comes off some time next month, and of which due notice will be given, we expect to have a very large attendance. As has been before stated, it is not the amount of prize, for that is small, that has induced manufacturers and others to attend these trials and the society to hold them, but that, as many farmers in the county are yearly buying machines, it gives an opportunity for them to buy those which they may think, after a trial, will suit them best. E. A. M'NAUGHTON,

Newcastle, July 27, 1860.

Secretary.

### Increase of Root Culture.

EDITOR AGRICULTURIST .- In looking over the last number of the Agriculturist, in first article, "Hints for July," we observe you taking notice of Mr. Fleming selling over 100 bushels of Swede turnip seed, a great quantity certainly for him, and we thought probably it might be of some interest to you to know what quantity we have sold in this section. We enclose you our circular of our importations for this season; the quantities are copied from the invoices and are correct to a few pounds, and we are happy to say we are nearly sold out. We have every prospect here of a most abundant harvest, and short pasture; turn it repeatedly with a

aud Carrots. MURDOCH, BROS.

Bowmanville, July 25, 1860,

[We find from the circular above referred to that the Messrs. Murdoch had imported the large quantity of \$350 lbs. of the different sorts of Swede Turnip, 1250 lbs. of other kinds of turnip. 2100 lbs. of Carrot, 1700 lbs. of Mangel, and 200 lbs. of Rape seed. This statement showsthat the increase in root culture must be nach more general and extensive even than we had supposed, and affords a gratifying proof epecially, which we are glad to be able to chromcle, of the improvement taking place in the agriculture of that section of the country .- Edj

Agricultural Intelligence.

FIAN PULLING AND RETTING .- Flax, when sown early, will be fit for pulling by the middle or end of the month (July); it requires much nicety to determine the time when it should be pulled. The fibre is in the best state before the seed is quite ripe; if pulled too soon, though the fibre is fine, it will be rendered uprofitable by the great loss it suffers in scutching and hackling, and if pulled after the seeds get right the extra weight does not compensate for the coarseness of the fibre. The proper or mes profitable time is, therefore, when the seed cap sules are changing from a green to a brown hue and the stalk yellowish for about two-thirds a its height from the ground; the flax should be caught by the puller just beneath the seed bolk by which all short stems will be left behind the handfuls should be laid across each otherin a slanting direction, so that the person who m ples may take them up without confusion. The rippling should be performed at the same time or go on simultaneously with the pulling, as the flax carried to the water as soon as ripple River or soft water is the best for steeping; th flax, after being bound in sheaves, should b placed in one layer, in regular rows, a litt sloped, the head of each row lying on the row of that which preceded it, and covered close with thin, tough sods: as fermentation proceed the flax will begin to rise, when addition weights should be laid on to keep it down; requires 10 or 12 days steeping; it should examined from time to time, every six how after the fermentation subsides ; try some sta of an average size, by breaking it across in the places, about six or eight inches apart: cal the woody part, and if it pull freely out, leave the fibre behind, it is ready to take out of ste then place the bundles on their root ends, ch together, to let them drain for about 24 ho and spread it out evenly and thin, on a cle we think we might compete with the best counties about 3 feet long and 14 inch thick, and in ab

trom six to twelve days it will be fit for lifting, when it may be tied up in bundles, and if not soon to be seutched it may be put in small, loose stacks. Drying by fire is now exploded as being permicious and destructive to the fibre, and a properly steeped and grassed exposure to the san will make it ready for breaking and sentching.-Irish Farmer's Gazette.

WLEDS .- Weeds, no matter whether found in the fields or by the ditch or road sides, give the idea of neglect and slovenly habits, and are a disgrace to the name of farmer : they impoverish the land, and rob the crops of that food which, in the shape of manure, often costs the farmer large sums; thereby reducing the quantity of produce, and rendering the corn crops difficult to harvest; for how often do we see the corn in the sheaf perfectly sound, and fit to carry, but cannot from the quantity of undried, succulent veeds bound up with it he brought to the haggard: and every day after the corn is fit for toring is a day of loss from exposure to the vind and wet and the ravages of birds and vernin, and at every handling it gets, the finest grain falls to the ground, and is for ever lost. Therefore, let the weeds be destroyed by handwe, horse-hoe, scythe, and reaping-hook, using ach implement where it is most appropriate be-By a little constant atore the weeds flower. ention to these matters, the weeds, and the abour expended in their extirpation, will annuly become less and less. The old adage of one year's seeding saves seven years' weeding' hould never be lost sight of. Weeds make a reat addition to the manure and compost heaps, shen cut at the time of flowering, and before hey perfect their seeds; should the seeds be early ripe they should be burned; but the ooner they are handpicked or cut, the better, s they should be allowed to draw as little nourment from the ground as possible.—Ib.

## horticultural.

### Memoranda for August.

This is comparatively an easy month with the ardener. The planning and laying out grounds, wing and planting, of spring and early sumer being concluded, his attention is mainly dicted to securing the proper growth, ripening d gathering of the vegetables, fruits, &c., ich he has succeeded in establishing, till the ore active operations of autumn commence.

THE KITCHEN GARDEN.-As the ground is ared of early crops, some things may still be wn to advantage, such as winter radish, early mips, and salads for fall use. Celery planted t month will require to be hoed occasionally,

them along the rows, to support the leaves while you are putting in the earth from the alleys, and removing them as you progress in the business. The earthing should never be done when the plants are wet, as this is apt to make the celery rusty, but should be performed gradually in fine weather as the plants progress in growth, repeating the earthing every two weeks; at which time care should be taken to gather up all the leaves neatly, and not to bury the hearts of the plants. Celery for winter use may be planted in the trenches as late as the middle of August, and if well watered and attended to will produce good roots.

Early planted cauliflowers will now be coming into flower. As soon as they show the flower, they should have a few of the leaves turned down over it, to prevent it turning brown, which would injure the quality materially, and in order that the heads or pulps may be compact. As the value of cauliflower depends greatly upon the manner in which it is cooked, the following directions from Bridgeman will not be out of place :---

" Cauliflower, and also Brocoli, should be gathered while the pulp is close and perfect. After having trimmed off some of the outside leaves, let them be boiled in plenty of water seasoned with salt, taking care to skim it, and also to ease the cover of the pot so as not to confine the steam. Take them up as soon as the fork will enter the stems easily, which will be in from ten to twenty minutes, according to their size and age; drain them so as to make them susceptible of absorbing a due proportion of gravy, melted butter, &c. This renders them a palatable and dainty dish."

THE FLOWER GARDEN .- The work to be done this month will be very much the same as for the last, in regard to keeping the ground clean, tying up plants, &c. The following directions from Buist's "American Flower Garden Directory" on the budding of roses, are just in season :---

According to what we have previously hinted in regard to having roses as standards, where such are desired, the month of July or August is a proper time for the operation of budding. The kinds to be taken for stocks should be of a strong, free growth; such as Manitta, Maid-en's Blush, R. Canina, and frequently the French Eglantine are taken. Be provided with a proper budding-knife, which has a sharp, thin blade, adapted to prepare the bud, with a il grown of sufficient size for earthing, which tapering ivory haft, made thin at the end, for done with the assistance of boards, by laying raising the bark off the stock. For tyings, use

soaked in water to make them more pliable. of the stock. Some do not head the stock a The height of the stock or stem at which the bud is to be inserted, is to be determined by the intended destination of the tree (as it may be properly called.) Choose a smooth part of the stem, from one to three years old. Having marked the place, prune away all the lateral shoots about and underneath it. With the knife directed horizontally, make an incision about half an inch long in the bark of the stock, cutting to the wood, but not deeper; then applying the point of the knife to the middle of this line, make a perpendicular incision under the first, extending from it between one and two inches. Having a healthy shoot of the growth of this year provided of the kind that is desired, begin at the lower end of this shoot, cut away all the leaves, leaving the footstalk of each. Being fixed on a promising bud, insert the knife about half an inch above the eye, slanting it downward, and about half through the shoot. Draw it out about half an inch below the eye, so as to bring away the bud unimpaired with the bark, and part of the wood adhering to it; the wood now must be carefully detached from the bark. To do this, insert the point of the knife between the bark and wood at one end, and, holding the bark tenderly, strip off the woody part, which will readily part from the bark, if the shoot from which the piece is taken has been properly imbued with sap. Look at the inner rind of the separated bark, to see if that be entire; if there be a hole in it the eye of the bud has been pulled away with the wood, rendering the bud useless, which throw away; if there be no hole, return to the stock, and with the haft of the knife gently raise the bark on each side of the perpendicular incision, opening the lips wide enough to admit the prepared slip with the eye. If the slip is longer than the upright incision in the stock, reduce the largest end. Stock and bud being ready, keep the latter in its natural position; introduce it between the bark and the wood of the stock, pushing it gently downwards until it reaches the bottom of the perpendicular incision. Let the eye of the bud project through the centro of the lips; lay the slip with the bud as smooth as possible, and press down the raised The bud being deposited, bark of the stock. bind that part of the stock moderately tight with bass, beginning a little below the incision, proceeding upward so as to keep the eye uncovered, finishing above the incision. In a month after the operation, examine whether the bud has united with the stock. If it has succeeded the bud will be full and fresh; if not, it will be brown and contracted. When it has taken, untie the bandage, that the bud may swell, and in a few days afterwards cut the head of the stock off about six inches above the inoculation, and prevent all shoots from growing by pinching them off. This will forward the bud, which will

bass strings from Russian mats, which should be | carefully tied, as it grows, to the remaining her til the following spring, thereby not encours: ing the bud to grow, which, if winter sets a early, is the safest method.

> COLD VINERIES .- Attend to thinning the free in houses intended to furnish a late supply, ad see that the bunches are severely thinned, ad also that the crop left is not too heavy in preportion to the strength of the vines. When the fruit is swelling be careful to maintain; moist state of the atmosphere, and give even possible attention to the roots, keeping the border in a healthy state as to moisture, and watering is found necessary, use good strog manure water. Give abundance of air when the fruit is coloring, and do not allow plants; pots to remain in the house to cause dam which despite every care in ventilation, is aptt settle on the berries and spoil the bloom. Whe the fruit is ripe and expected to hang for sor time, the atmosphere of the house should be kept as cool as possible. J. F.

### A New Mode of Propagating.

A correspondent of the London Gardenei Chronicle of May 12th states that he has & covered a means by which he is enabled: strike and grow an almost incalculable numb of plants in a very small space, without a atom of soil of any kind.

He says :--- "I am not aware that this mo of propagation has ever been made known! any other person, so that, if you think it work of notice, you will do me a favor if you will g it publication. I also further beg to state, it my striking apparatus is simple, portable, c my own invention; and I need not explain you that it is on strictly scientific princip. founded on the organic structure of plan After the cuttings are probably struck, a lin moss is tied round them; they will keep for month in that state."

The Editors of the Philadelphia Gardena Monthly, referring to this and other comm cations on the subject, says :---

" In one of our first numbers, the secret ca out that there was no more difficulty in strik eyes of Native than of Foreign Grapes, p vided, after they were cut ready for planu they were suffered to lie mixed with damp m for two weeks in a place secure from dry Here they form a slight callosity, and we planted all grow. This hint we have reason know has been extensively acted on, and u push and ripen wood this season; but it must be | sands of dollars have been made through the

er of our correspondents, about leaving cut- per annum. s of such things as Cotoneasters, Prunuses, , in dark cellars in dry moss, when they ald push roots freely,—the accounts of strikin Sphagnum moss, and many other details practice and observation, have all pointed clusively to one great principle, namely, that llus can be formed in any cutting before as put into the soil,' and where that is cied, it can readily be made to root.

t is, in fact, now become well known to e-we may say many-of our most skilled pagators, that all cuttings can be made to ous, and then be made to grow. Apples, ches, cherries and plums, are now freely ek by several in our immediate vicinity from ings, and many kinds of trees once thought ossible to propagate in that way, are now ed so very freely.

our own experiments, we have found a compreserving bottle excellent for callousing A sponge is pushed tightly into cuttings. bottom of the bottle, and water poured on. all the water is drained out that will go by inverting the bottle, and the cuttings ed loosely in. No cork is placed in the e, and evaporation takes place slowly and cutting soon forms the desired callus.

he whole secret, in fact, is in allowing free ss of air to all parts of the cutting, at the time taking care that evaporation shall e so excessive as to dry up the cutting."

B PEAR BLIGHT.--- A correspondent of the al New Yorker, writing from Hamilton, , offers the following suggestion as a prere of the Pear blight, which has effected oung trees in that section badly. He is ble to give any remedy for those already ed :-

bout the middle of Septemeer, or as soon as the leaves at the ends of the twigs begin ume a brown, withered appearance, let all bung wood of that season's growth be cut one half, let the sap bleed for a day or two, en paint each cut end with a solution made m shellac dissolved in ether. This will dry, forming a hard coat over the wound, will stop the further flow of sap, and reeingress of air or moisture. The sap will flowing, the tree will assume its dormant and when hard frost comes the sap vessels ot be able to become ruptured, or the sap

FITS OF FRUIT.-In the N. E. Farmer, n is made of the Messrs. Clapp, of Dorr, Mass., who, Col. Stone says, by systeculture, raised each year, on five acres of planted with apple trees, \$600 worth of is as an under crop; while at the same they had a large crop of the best apples. Country Gentleman.

mation thus given. The hint, also, given by | Their profits have been from \$2,500 to \$3,500

THE SYRIAN GRAPE.-J. R. Gardner, writing to the Albany Country Gentleman from Mont. Co. Virginia, says :--- " It will perhaps be news to some of your readers, to hear that the Palestine or Syrian grape ripened in the open air at Lynchburg, in this State, last year, bearing bunches three feet in length and twelve or fifteen inches broad. i procured a vine one year old last fall, which has stood the winter without any protectior, and is now making a tolerable good growth."

THE ONION MAGGOT .- "An Experimenter" in a communication to the Boston Cultivator, says that he has succeeded in saving his onions from the depradations of the insect by sprinkling the ground plentifully with unleached ashes, and in case of dry weather, watering copiously, after the maggot had commenced its attacks.

WATERING PLANTS .- During the summer it becomes necessary to resort to artificial watering for garden plants, trees, &c., and it is a matter of considerable importance to perform this operation in the best way and at the right time; the chief object being to supply just as much water as the plants need and no more. To do this, notice their condition at the time of application. If trees, which have been transplanted in the spring seem to be inactive, and thus throwing off but a small amount of moisture, very little water is required; young trees especially are apt to remain three or four weeks after being set out, without making any growth, and to give them an abundance of water would cause them to remain dormant rather than to help their growth. In such cases it is best to use water but very little. Again, if a tree grows fast and draws most of the moisture from the soil, water should be given, but not upon the surface. Break the top soil. and let the water soak well into the ground and not run off or form a hard crust upon the surface.

In watering garden plants the operation often does more hurt than good. By applying it on the top a crust is formed, and if water is again poured upon this crust it immediately runs off or helps to make a thicker crust upon the surface. This keeps the ground dry and the plant makes A better way is to make but a poor progress. several holes in the plant beds, or small ones by the side of the plant and pour the water into them. In this way it gradually soaks into the earth and the moisture is easily obtained by the rootlets of the plant. It is indeed the only proper way of artificial watering.

Evening is the best time to water plants. The sun is not shining and the state of the a.mosphere is usually moist, which prevents a ready evaporation. L.—

## Veterinary.

CATTLE DISEASE .- The Genessee Farmer, in

reply to a correspondent who asks if there is no other remedy for the cattle disease than to kill all the cattle which have been exposed to it, says.—"We can give no opinion on this sub-ject. If the disease can be arrested by the slanghter of all the affected cattle, it will be a great blessing—although it may appear a great waste of property. We were in England when the disease raged there some years ago. We have known several head of cattle to be badly affected in a herd; some of which recovered, and many others in the same herd were not attacked at all. We were on the farm of a large dairyman of Moreton Corbet, Shropshire, when the disease appeared the neighborhood. He immediately drenched all his cows with half a pound of Epsom salts, and a quarter of a pound of sulphur, and two ounces of spermaceti, dissolved in a quart or three pints (we are not sure which,) of warm water. His entire herd escaped, although the cattle on an adjoining farm were attacked and two or three died. We cannot say that the medicine he used was the cause of his escape, or that experience has shown it to be generally useful."

THE CATTLE DISEASE OF EASTERN NEW YORK. The New York News states that the pleuropneumonia has made its appearance in several of the counties on the Hudson River. It says no less than twelve head of cattle have died of the fatal disease within the last few days at Vail's Gate, Orange County, and that Mr. Jacob Storms, of Southeast, Putnam County, has lost seven cows within the last two weeks. Other persons, in Carmel, in that county, have also lost several. If this is correct, it behaves the farmers of this State to be on their guard, but we suspect the truth is exaggerated. However, as "caution is the parent of safety," it may be we'l to be prepared for the epidemic.—*Rural* New Yorker, (7th July).

## The Dairy.

MACHINE FOR MILKING .- The Scientific American contains an engraving and description of a machine for milking cows, patented by L. O. Colvin, of Ciucinnati, N. Y. The invention consists of an apparatus attached to the side of the pail, in which are two small pumps worked by levers, and which act upon the cow's udder through teat cups so arranged as to suit the size of any teat.

"The whole forms a compact, neat and durable milking machine, and, with pail, only weighs six and one half pounds. It has been ful of soda. The whites of the eggs besused daily for eight weeks, and the inventor a froth, and thour added to make of the states it does not injure the cow in the least, consistency.

and they stand quiet during the process of ing as if pleased with the operation. The time ever made with the machine was 17 quarts of milk in one and three-fourth min three minutes being sufficient time and much less labor than by hand."

We have considerable doubt of the neg for or applicability of such a machine," notice it, as one of the instances of the tive genius of our neighbors.

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## Poultry.

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### The Dorking Fowl.

This justly celebrated breed of fowk's very ancient origin, having been records some ancient poultry books more that thousand years ago. They are remarkally having five toes on their feet.

This breed is liable to degenerate if be and in too closely, and the male bird shot? changed every year, if it is desired to keep the stock to perfection. They have been ported to this country, and much used to e with and improve our common barn-yardf but it is yet rare to meet with a Dorking a farms in this country, of pure and uncor nated blood.

For general purposes, we think this bree best of the whole poultry tribe; and the also hardy, and able to stand our cold wit -Genesee Farmer.

### Domestic.

CURE FOR ERVSIPELAS.-Beat raw on ries to a paste, and bind on the parts affec

PARK CAKE. Two cups molasses; a sugar; one of chopped pork; three of ! one spoon soda.

WHITE WEDDING CAKE.-One pound t one of pulverized loaf sugar; three-fourth pound of butter; whites of ten eggs; tw. megs; oil of lemon.

TO MAKE OPEDILDOC .- Take the best ( soap, two ounces; gum camphor, ove a alcohol, one pint-mix the soap with thes and let them stand in a moderate heat un soap is dissolved, occasionally shaking the -then add the camphor, and continue to the vessel frequently until the soap is dis occasionally shaking the vial-then at camphor, and continue to shake the vest quently until the whole is dissolved. Us sprains, bruises, and in rheumatic pains.

CLAY CUPS .- Three cups of sugar; @ of butter; one cup of sweet milk; six two teaspoonfuls of cream tartar; one ter DAF CAKE .-- Mrs. S., of Chautauque Co., "inquires if some one will give her a recipe king plain loaf cake with hop yeast. give my plan :--Five pounds of flour; two gar; three-fourths of lard; three-fourths of i; one pint of yeast ; six or eight eggs ; quart milk : raisins and spice to your taste. e your dough as for bread, and after raising iently, work in the other ingredients. Put tins and raise again.

also give a receipe for molasses gingerd:-One cup of molasses ; one of cream ; poon of ginger; one teaspoon of saleratus: grs. Make as thick as common soft cake .-, Kalamazoo, Mich., May, 1860.

WON CAKE .- Take one teacup of butter, three of sugar : rub them to a cream ; stir them the yokes of five eggs, well beaten ; lve a teaspoon of saleratus in a cup of milk, add the milk ; add the juice and grated peel .e lemon, and the whites of five eggs; and n as light as possible four cups of flour.

MARS -One pint of molasses; one of ginger; one teaspoon of saleratus, boil ac ingredients thoroughly. When nearly add as much flour as can be rolled into the re. and cut very thin-M. C., Benning-N. Y., 1860.

CHELOR'S CORN CAKE .- A pint of sifted meal, and a teaspoonful of salt; two teafuls of butter, and a cup of cream; two well beaten. Add milk till it is a thin batter, and bake in a quick heat, and it like pound cake.

NON OR ORANGE ICE CREAM .- Squeeze a lemons, and make the juice thick with : then stir in slowly three quarts of cream, freeze it. Oranges require less sugar .--Wear.

KLING SWEET APPLES .- To one half peck apples make a syrup of two pounds sugar, ne pint of vinegar. Boil the apples in sup until tender; then remove them, and a syrup of 21 lbs. of sugar and one pint gar. Add one teaspoonful of cloves, and cinnamon tied in a bag. Let the syrup 5 or 20 minutes; then pour it, while hot he fruit. The first syrup is good for other

PREPARE CITRON FOR FRUIT CAKE.and steep the citron until soft, then add al quantity of sugar; dry them in a dish he juice is nearly dried out, then spread in plates and set them in a lukewarm oven 17. Add a few drops of extract lemon, ey are ready for use .- Mrs. N., Gouver-Ň. Y., 1860.

SED MUFFINS .- One pint of milk and two one tablespoonful of yeast and a spoonful Mix these ingredients with sufficient t. o make a thick batter. Let it rise four or Jurs, and bake in muffin rings.

## Miscellancons.

A MOTHER'S LOVE. - Children, look into those eyes; listen to that dear voice; notice the feeling of even a single touch that is Make much of it while yet you have that most precious of all good gifts—a loving mo-ther. Read the unfathonable love of those eyes : the kind anxiety of that tone and look, however slight the pain. In after-life you may have friends-fond, dear, kind friends-but never will you have again the inexpressible love and geutleness lavished upon you, which none but a mother bestows. Often do I sigh, in my struggles with the hard, uncaring world, for the sweet, deep security I felt when of an evening. nestling to her bosom, I listened to some quiet tale, suitable to my age, read in her tender and untiring voice. Never can I forget her sweet glancea, cast upon me when I appeared to sleep, never her kiss of peace at night ! Years have assed away since since we laid her beside my father in the old churchyard; yet, still her voice whispers from the grave, and her eye watches over me, as I visit spots so long since hallowed to the memory of my mother .- Macaulay.

AMERICAN ELOQUENCE. - As a specimen of the style of criticism in which some Ameri-can writers indulge, we extract from an American paper the following, premising that the writer is a lady, and is criticising a magazine story. She says :--- "I am so dazzled by a reading of the first number that I hardly dare express an opinion of it. So much splendour gives rise to distrust in my mind. Is there no redundance in all this blaze of glowing rhetoric-in this passionate outpouring of wildering words-in this sensuous eloquence of poetic fervour? I hope not; I hope all the glory of light in this unmetred poem irradiates from the illimitable sunstar. But the author must not blind us with unshadowed radiancemasses of lustrous blue, heaped upon the passionate eagerness of crimson, and that again upon the majesty of proud purple. floating tremulously upon the tradiate pulses of pure light, through whose fiery gaps and golden chasms sound in the heavenly distance stops of planetary music. But the eye and the heart grow sick and languid with ravishment, and turn toward the distant grey, through whose solemn monotony shines the faint tremor of stars."

HOW TO GET WATER ON DRY FARMS .- In travelling through the country, how many farms-do we find destitue of water. Now, step up and ask why they do not dig a well—some will say "we are too poor;" others, "we are afraid to dig! Mr. So-and-so dug and found no water! others in this neighbourhood have dug and drilled, but their wells are very deep, and I would <sup>urz</sup>, and bake in muffin rings. This you as lief haul water a mile above ground as from <sup>id</sup> most excellent. TILDA.—Rural New a mile below; besides, some of their wells cost as much as my farm is worth !" You can do

better than either. Dig a cistern at your house, I tions on the subject of practical farming barn or at the nearest ravine, or place where water will run in the spring, when the snow is melting. It is to this kind of a cistern I wish to call special attention, not a little egg of a thing, but a good large one, that will hold ten or uf of long experience and observation. teen cords of water.

Below I will give you my way of making a Ravine Cistern : First, determine upon the place; next, get all ready; then dig the size you want-(8 x 16 and 10 feet deep is the size of mine)-after digging the depth you want, you will see what your foundation is to rest on, and unless it is gravel, or rock, I would recommend digging the bottom out to a circle, and commence the wall in the center of the bottom, and build an arch upside down, to rest your walls on, then build the height you want your walls and arch over, if you have plenty of the right kind of stone, if not, plank it, cover over and let it settle and dry out before you plaster it, buil I a dam across the water run with the earth you dug out, so as to let the water settle some before you let it into the cistern: what little mud runs in will not injure the plaster any, and you can clean it out every time you get a chance.-Correspondent of Wisconsin Farmer.

NIGHT AIR .- An extraordinary fallacy is the dread of night air. What air can we breathe at night but night air? The choice is between pure night air from without and foul night air from Most people prefer the latter. An un-able choice. What will they say if it within. accountable choice. .is proved to be true that fully one-half of all the disease we suffer from is occasioned by people sleeping with their windows shut? An open window most nights in the year can never hurt This is not to say that light is not any one. necessary for recovery. In great cities night air is often the best and purest air to be had in the twenty-four hours. I could better understand shutting the windows in towns, during the day, than during the night, for the sake of the sick. The absence of smoke, the quiet, all tend to make night the best time for airing the patient. One of our highes, medical authorities on consumption and climate, has told me that the air in London is never so good as after ten o'clock at night. Always air your room, then, from the outside air, if possible. Windows are made to open, doors are made to shut,-a truth which seems extremely difficult of apprehension. Every room must be aired from without,-every passage from within. But the fewer passages there are in a hospital the better .- Florence Nightingale.

LORD PALMERSTON ON RURAL AFFAIRS .- A foreign paper says that Lord Palmerston, in his 76th year, as lively and versatile as Rover, in the old comedy, recently delivered a lecture at Romney, very valuable for its practical truths, on the mode of building cottages, and how to reform untidy people by making their homes comfortable.

showed that the stingy husbandman was political economist who gave unremove wages to his laborers. In short, his L was overflowing with practical wisdom, the

#### The Old Farm House.

In a little grove of shade trees, Stands a farm-house, brown and old With a wealth of vines around it, Gemmed with flowers of red and go

By the path that makes a circle Of white sand around the lawn,

Grow sweet timothy and clover. Rosy as a June-day dawn.

- Around its door pale morning-glories, Jump-up-johnies, dahlias, pinks,
- Cluster-concentrated beauties. Married by a thousand links ;
- Links of love, the works of nature's Mystery of handieraft;
- Links of glory, through which fairy Argosies of perfume waft.
- And the gate that swings before it, And the fence as white as snow.

Stand on variegated cushions, Which the sun-fire sets a glow;

- Crowning them with many colours-Yellow, purple, green and blue-
- As if rainbows there had fallen, Melted into rarest dew.
- On its roof the greenest mosses Catch the shadows from the trees;
- On its sides red honeysuckles Make their curtseys to the breeze:
- And the ever-nervous willows, Standing near the garden's bound,

Throw a web of shade fantastic On the clover-mantled ground.

- O'er the well an arch of grape vines. Formed with heaven's directed can
- Chains the shadows to the water, Making cool the summer air :
- And a tiny church, its steeple

Piercing through a bower of leave Is a sure and sacred refuge

Where the wren her carol weaves.

FECUNDITY IN DOMESTIC ANIMALS.-Farmer says that the English are much attention to this, particularly as sheep, endeavoring to have ewes lamb year and bring twins every time, and i ludes to the famous Chinese sheep wh some stir here some four years ago, ( reason is we now hear nothing of the not know). In their live stock, the have especially studied fecundity, early Their sheep are very and aptitude. He threw out valuable sugges | three of them were imported into Lor

bs was so great that they became a nuis-One ewe had five lambs, another four, other three. In the United States, Capheodore Smith began with the Chinese in 1554, and in eighteen months he had rease of seventy-four, one of the ewes had twelve lambs in fifteen months. He that the sheep are large and handsome, emutton of superior delicacy.

woman !" was the exclamation of Lord -flor Eldon, upon passing a beauty, when up and down Westminster Hall, with his the Master of the Rolls, previous to the g of their respective courts. "What an at judge !" said the lady when her sensicaught the flattering decree of the Lord hancellor of England.

HIMOUR.-An Irish post-boy having a gentleman a long stage during torrents , the gentleman civilly said to him. , are you not very wet?" "Arrah! I are about being very wet; but, plase nour, I'm very dry.'

otal length of railroads in Germany, at e of 1859, was 7,949 miles.

erries may be profitably cultivated on ground that would otherwise be useless. obinson states that, at Cape Cod, where berry culture is carried to its fullest exampy lands, that were worthless a few o, have now "a saleable value of \$800 '00 per acre."

### Transactions.

### ty and Township Agricultural Societies.

act of reports received by the Board sulture in 1860; from County and ip Agricultural Societies, embodying seedings of those Societies for the 9, with the names of the officers of nty Societies for 1860.

#### ADDINGTON.

TY SOCIETY.-Eighty-six members. of subscriptions, \$87; balance on om 1858, \$121.98; deposited by Societies \$220; Government 479.98; Total receipts, \$908.96. wuship branches, \$484; paid to mittee of the Provincial Agriculociation, \$262; incidental expenbalance remaining in Treasurer's 22.96.

s, 1860.

in the London Gardens, and the increase | erville; Secretary and Treasurer, J. B. Aylsworth, Newburgh.

#### TOWNSHIP BRANCHES.

CAMPEN-Eighty-seven members; amount of subscriptions, \$102; balance from 1858, \$100; share of public grant, \$120; grant from township council, \$40; total receipts, \$263. Paid in premiums, \$226.50; incidental expenses, \$33.08; balance in Treasurer's hands, \$3.42.

#### L.stract from Report.

"Camden is proverbially a stockraising township. The only imported breeds, however, were Durhams and Ayrshires, until Mr. Nimmo, in the fall of 1858, introduced a number of Galloways from Scotland. These cattle have improved very much in appearance since they were brought to this country. The cows are said to be superior to any other breed, for furnishing milk of a rich quality. The majority of the farmers of this township prefer the Leicesters, to any other breed of sheep. Others think the Southdowns are more profitable, and more hardy. A cross between the two breeds, that is, a Leicester ram with Southdown ewes, produces an excellent description of store or common farm sheep, large, broad-backed, hardy and well formed, with fine long wool; they seem to retain the good qualities of both breeds.

On account of the depredations perpetrated by the midge, the growing of Fall Wheat has become almost obsolete; some half-dozen farmers in the Township, however, continue to cultivate it. By sowing, not later than the last week in August, on well prepared ground, it will ripen early enough to escape the fly.

The average yield, last year, was twenty bushels to the acre of Soule's wheat. But we think the Fife spring wheat safer. If sown about the nineteenth of May, the kernel does not form until after the midge has disappeared. We would recommend a more extensive cultivation of "Indian Corn," as this crop leaves the soil in a good condition for Spring wheat, barley, or oats the next year. The eight-rowed yellow is the best sort, for this part of the country; it ripens early, bears a large kernel, and may be cribbed with perfect safety. It should be planted in rows forty-two inches apart, four 1860. President, Geo. Howard, grains in the hill, between the fifteenth and Island; Vice-Presidents, Thomas twentieth of May. There is more danger wburgh, and C. W. Miller, Switz- of corn being injured by frosts in the fall,

than in the spring. Peas are the most suita- \$479.98; total receipts, (exclusive ble grain to sow upon land that has lain three posit of Township society.) \$832.50 or four years to clover.

To show what may be done in root culture in this quarter, we give a statement do at Union Show with West Riding from a man who has had much experience ty, \$266.66; expenses, \$145.09; b. in this branch of farming: J. Lucas, Esq., Theasurer's hands, \$330.84. employed a skilled hand, who commenced report that they held a seed fair working on the twentieth of last April. in August at Paris, which was well a a field containing four acres of sandy loam, and of much service in enabling the which had been sufficiently manured from to obtain their seed wheat. the barn-yard. field was sown with carrot seed, and produced fifteen hundred bushels of the "large orange" carrots. One-fourth of an acre produced two hundred bushels of onions.

One acre and one-fourth under Swedish turnips, produced ten hundred and forty Treasurer, Wm. Patton, Paris bushels; some of the largest bulbs weighing twenty-five pounds each.

One-half acre of turnip beets produced two hundred and sixty bushels.

The remaining half acre was planted with early potatoes, and produced one hundred and thirty bushels, which sold on Kingston market during the first week of July for \$1 80 per bushel.

After the potatoes were taken off, the same ground was sown with "White Stone" turnip seed, and produced one hundred and seventy bushels; worth 25 cents per bushel.

This Township is, comparatively speak-The soil is so various in ing, a new one. quality, and in the state of its cultivation, that we cannot recommend any particular system of farming as the most advantageous. Every man ought to possess a knowledge of the properties of the soil he cultivates, and know how he should treat it to make it produce the desired crop?"

ERNESTOWN.—Seventy-eight members; amount subscribed, \$80; balance from 1858, \$26.34; Government grant, \$96; total receipts, \$202.34. Paid premiums, \$140.36; paid for copies of Agriculturist, \$36.50; incidental expenses, \$25.48.

SHEFFIELD .- Forty members; amount subscribed, \$40; balance from 1858, \$5; share of public grant, \$44; total receipts, \$89. Paid in premiums, \$65.75; expenses, \$15.25; balance in Treasurer's hands, \$8.

#### EAST BRANT.

COUNTY SOCIETY .-- One hundred and eight members; amount of subscriptions, \$102; unclaimed premiums, \$12; balance ing, stationery, services, and sundr from 1858, \$238.61; Government grant, 25; balance in Treasurer's hands,

Township society, exclusive of deposit paid premiums at seed wheat fair, Sly The D They One acre and a half of this show in conjunction with the West Society at Brantford on 20th Ser which was also well attended and sug

> Officers, 1860 .- President, Data Naughton ; Vice-Presidents, Charle law and George Stanton; Secret

#### TOWNSHIP BRANCHES.

ONONDAGA .--- Sixty-six members:: subscribed, \$171.12; balance free \$13.6; share of public grant, \$72 from Township Council, \$20; rec ploughing match, \$6.84; total r \$283.02. Paid in premiums, \$244; ses and sundries, \$33.15; balance \$5.87. The Directors report that show of horses and cattle, in autur good, both as to variety and quality the sheep department, the entries we numerous than in former years, and any shown at any previous exhibition show of grain, roots &c., was excelle fall wheat this year was about an crop, although injured in some locthe frost. Spring crops, with the e of hay, were excellent. With regar dairy productions and domestic t tures, the show was a decided suce

#### WEST BRANT.

CCUNTY SOCIETY .--- Two hund fifty-seven members; amount su \$259; balance from 1858, \$607; d by Township branch, S04; receiv East Brant Society, contribution Exhibition, \$266.66; grants from pal Councils of Town and Tow Brantford, S100 ; Government grat 98; sundries, \$9.25; total receipts 89. Paid'for buildings for exhibit expenses connected with do, \$307 for clover seed, \$9.10; paid for Agriculturist, \$6.00; paid to branch, \$120; paid premiums, \$68

Dakland; Vice Presidents, James il, Paris; Isaac B. Merritt, Scotland; my and Treasurer, Duncan McKay, ord.

#### Extracts from Report.

directors believe that the efforts w the various agricultural societies Province have given of late years a pulse to the more skilful breeding of to a more careful selection of seeds ming implements, and to a more lical and productive system of crop-They are roughout the Province. nt too, that in no part of Canada ese efforts been productive of a better han in the west riding of the County

eat part of West Brant was originally w thinly wooded, and therefore prepeculiar attractions to agriculturists e mother country, disliking, as many 1 do, the dense forests of the new This part of the riding forms a porh vast tract of land, extending from ks of the Grand River in a southdirection, to the shores of Lake tract of land which originally conwhat are termed "oak plains," and ontrary to the anticipations of many s of wild lands, has been found to a soil fertile and specially produc-he cereal crops. This soil is very he cereal crops. ly a rich loam, easily draining itself fluous moisture, and also remarka-Lying chiefly on the of tillage. al formation which contains what nically called "gypseous shales" it with plaster mines in various parts long the banks of the Grand River. duct of these mines has been unand very beneficially applied to r crops of the district. This same This same l formation (running nearly east t) is the one, if we mistake not, hich are found those large salt which have in the neighbouring loved to be a source of wealth and prosperity, and which scientific reay hereafter discover to be more diffused throughout this part of han has yet been supposed. ppearance of the "oak plains"

ntioned formed, in their uncultie, a singularly pleasing landscape, of a park-like character, and I in many places with heavy belts older varieties cultivated in the district.

res, 1860 .- President, Wm. Thomp- of woodland, particularly along the margins of the rivers and rivulets. The beauty of the country has perhaps not been impaired by the spread of cultivation, as many fine trees have every where been carefully preserved, and numerous flocks and herds give animation to the scenery.

The capabilities of the soil in West Brant have by no means been entirely neglected. This district has never been subjected to that scourging rotation of wheat after wheat, one year after another, by which so many of the fine lands of the Eastern States have been rendered vastly more productive of weeds than of profitable grain. From the first settlement of these plains, on the contrary, a system of thorough fallowing has prevailed, and when the soil has been sufficiently prepared a clover crop has almost invariably formed a part of the succeeding So successful has been the sysrotation. tem pursued that the land is now gradually becoming, not more and more exhausted, but more and more productive of every species of crop. We have no hesitation in saying that 25 bushels of wheat per acre is now quite as common a yield as were 18 bushels per acre some 15 years ago. There are some fine tracts of what was formerly woodland, which lie chiefly on the south side of the county, of which the tillage has not perhaps been so systematic, but with an increase of cultivated land there has generally, we believe, taken place an improved system of culture.

Wheat is the staple crop of the district, and the one towards which the attention of our farmers has hitherto been most perseveringly directed. It has generally been found to be more profitable and certain when sown upon well cultivated fallows than when after any preparatory crop, such as corn, peas, or potatos. The decomposition of the clover sod and complete pulverisation of the soil have as yet been more depended upon than any direct application of manure. A fear of rust has hitherto deterred our agriculturists from manuring their wheat crops to any great extent. To guard against this evil has always been one of their greatest cares.

Several new kinds of wheat have lately been introduced, one of which, the Fife variety of spring wheat, is remarkably free from the attacks of this fungus, and almost all of them are more productive than the

Spring crops, such as barley, oats, and from one or two acres to eight or ten a peas, are generally cultivated more or less by every farmer, but they do not any where, at present, constitute a crop sown in regular rotation, and are perhaps in Western Brant, generally more or less uncertain, and are frequently less remunerative than fall wheat

The hay crop of the riding is composed wholly of clover and timothy, with an admix-Timothy is the ture of the wild grasses. only artificial grass cultivated in the district, and there is great room for doubt whether it is precisely the most suitable one that could be found for the use of the Canadian Experiment has proved that it is farmer. very deficient in aftermath, and that its nutritive qualities are no higher than those of other grasses which yield quite as largely at the first cutting, and spring up much more vigorously afterwards. We may give the alopecurus pratensis, or meadow foxtail It is a grass very similar as an example. in appearance and nutritive qualities to timothy, but far superior to it as an after crop. We would suggest that encouragement should be given in future years, to the cultivation of new species of grasses. The rye grass (lollium perenne), the cock's foot grass (dactylis glomerata), red-top (agrostis vulgaris), sweet seented varnal grasses (anthoxan thum odoratum), meadow foxtail (alopecurus pratensis), different species of poa, and fescue grasses (pou pratensis, poa nemoralis, &c., festuca pratensis, festuca durinscula, dc.,) and others have been cultivated in the mother country. We observe that enterprising seedsmen have already imported the seeds of many of these grasses into this Province, though perhaps not of the very best in the list. But very little trouble is therefore necessary on the part of our agriculturists to give those grasses a fair trial. It has been found that a sod composed of different species of grasses gives a succession of nutritive pasture in the different seasons—one grass coming to maturity as another withers away. Different soils and different situations do also require different sorts of herbage. The red top (agrostis vulgaris) is specially adapted for wet soils, and the wood meadow grass ( poul nemoralis) delights in shady woods.

We observe with much pleasure that the cultivation of green crops is gradually getting more and more into fashion in this district; though the breadth sown is yet com- manure to be annually wasted-a paratively insignificant, generally varying | capable of producing some 4 or 5 t

ally upon a single farm of from one to: hundred acres. A larger breadth of te has perhaps been sown during the past than in any preceding one. The more: market, and more remunerative price obtained for fat cattle and other liver no doubt render the turnip crop of me portance than formerly; and the none convenient means of transport, and: increase of American and Canadian and towns, will still further stimula: cultivation of green crops. The chi crease of the population of the E States and of a large part of Canada, doubt in future years be in the large cantile and manufactoring cities and rather than in the rural districts; and increase of consumers will, day by da der our home markets more imp especially for the sale of beef, mutipork. Green crops will therefore is every day more remunerative, and wa increase of their cultivation will fok increased supply of manure, with still further to increase the fertility The cultivation of green crep soil. then too, at no distant day, supply as ble course in an improved rotation of

It is in vain, however, to attempt large quantities of green crops with taining a large quantity of manureto Guano, bones, and other ext. with. manures are therefore valuable to the culturist, and facilities for obtaining are very necessary to him. Agric societies would therefore do well the these manures within the reach of tin their various localities, and to eno them to prove the efficacy of these a by experiment. A merchant in thet Paris, a year or two ago, ground: hundred bushels of bones, but failed lieve, in disposing of them to such: tage as he had reasonably anticipated to the want of a due appreciation value of this manure by the farming munity. He proved, however, th quantity of bones that might be a for small expense within this distrivery considerable.

Liquid manure is another fertilisity of great power. Many a farmer who accounted skilful in his profession. one or two thousand gallons of this

Mr. ulture is yet short of perfection. i, the very skilful and successful Engn extensive use of liquid manurehe attributes very much his success in dural pursuits.

and is a manure that can be obtained muct illimitable quantities, and when al quality, is most powerful in its efwhether it be applied to turnips or

a corn. s latter crop, it may be observed, is means so largely cultivated in Westanada as its merits would seem to There is hardly any one of the pouring States in which the number Lds of Indian corn annually produced, tot nearly equal those of the wheat This fact grown in the same state. seem to show that our American en have become fully sensible by exce of the profits that attend the cula of this plant. Indeed when we or the excellent fudder contained in ks, the sure return that it always afor good tillage, the case with which arvested, thrashed, and ground, we ly wonder why its culture should een so much neglected in Canada as been. As food for man Indian corn commands a ready sale-as food for rior animals, it has never been sur-

ite years, as we before remarked, a uprovement has taken place in the f Live Stock. The superiority in of the sheep now bred in Western ver those bred some 10 or 12 years "t once recognisable. Some persons though we think without sufficient that so much attention is not now d on the breed of swine, as was some is ago. Be this as it may, there can oubt that the general excellence of ed of pigs is now certainly much There may posthan it was then. fewer fine individuals than there J 5 years ago; but yet the general we think, is quite equal to what it hat time. Great attention continues aid to the breed of horses, and fare very ready to avail themselves of

els of Swedish turnips ; this fact makes | number of good carriage and agricultural I how far, how very far, Canadian horses now in the County of Brant is very large. A considerable improvement is visible in the quality of horned cattle, tho' acticulturist, is a strong advocate for we regret to have to say that less activity is directed towards improving their breed than exists with regard to either horses, sheep, or pigs.

> A good breed of milch cows is much wanted in this Province; our importations of dairy produce from the United States are very large. A great saving to the country might yearly be effected by the establishment of more dairies amongst us There are already a few in this part of Canada, but their number might be very largely and very profitably increased. It is much to be desired that Western Canada should not be so wholly dependent, as This hitherto, upon its wheat crop alone. crop is somewhat precarious in its nature, and it is therefore to be wished that at least a part of the great expense now devoted to its culture, should be directed towards the raising of some other agricultural produce in its stead, of a kind less fluctuating in its returns and more equable in its prices. We may remark too, that a variety of produce acts somewhat as an insurance against risk. A blight upon wheat may be greatly compensated by a good yield of corn, a failure in hay by an extra productive crop of turnips, a light harvest of grain by an abundant return of cheese. On this principle, the rearing of live stock, the production of dairy produce and wool, the establishment of flouring mills and manufactories, should each contribute towards the national wealth. The human family, besides, is made up of members differing vastly in age, in strength, in mental talents, and we therefore require different employments suited to the different characters of each, so that the labours of all may be employed to the best advantage. We "want all sorts of employment for all sorts of men."

The profits of dairy husbandry cannot justly be estimated by the insignificant gains acquired under the petty system of dairy management that now commonly prevails in these parts. Very usually the weekly produce of some three or four cows is taken to a neighboring storekeeper, and is by him salted down along with other lots antages which the importation of of greater or less excellence. When the nor horses from the mother country whole quantity is sent to the large cities utime to time offer to them. The and inspected, it is of course found to be in layers of every celour and of every quali-ty; and the sale of three-fourths of a keg of good butter may be spoiled by reason of the of work accomplished, by some ple admixture therewith of a small portion of an yond what is effected by others, and inferior quality. Were the produce of a would do well to make it their bush greater number of cows packed up by the roughly to understand this. farmer himself in due season, kegs of similar making this truth evident, as wells quality throughout might be obtained, and ating a higher standard for good pla these would command a higher and much the annual ploughing-matches now more ready cash market. Dealers, in the crally prevalent in this district, have event of a mercantile butter being packed great use. In the matter of faming up in large quantities in this district, would we speak with some diffidence, but find it to their interest to purchase and col- that a considerable lessening of the leet this butter after the manner done in now required in their use, and at the neighbouring States; and then, for a ficient way by which they might time, contrary to the usual course of things, their work, is possible. We could the greater the supply the greater would be see boilers and steam apparatus for the demand.

Cheese is a commodity which finds (as we are at present. There is a greate before remarked of dairy produce in general) [effected by cooking the food for var a large and ready sale in this province. make good cheese requires perhaps more cud. skill than is needed to make good butter; but again, the former article is commonly, we think, more remunerative than is the latter. Good cellarage, and convenient utensils, are necessary for success in dairy management. Of late years considerable attention has been directed towards the manfacture of efficient and economical churns, which have been constructed of various forms, and on various principles, and have at different times been more or less popular.

There is indeed no department in our agriculture in which the evidence of progress is more visible than it is in the me- Hence, too, the advantage of modd chanical. application of machinery to new objects, and ties to stimulate and sustain infa an improvement in the manner in which it prise, manufactories, &c. has already been directed towards others. need not healtogether unproductive Reaping machines are now in universal use, thing save wood : there can be not abridging the labour of the harvest by almost | that they would afford a luxuriants one half, and threatening to displace the excellent pasture if they were some American grain-cradie, which was it-oif a wood-meadow grass, (juna nemon vast improvement upon the European sickle. [it is reasonable to suppose that the Mowing machines, too, are very prevalent. of shady woods would be very g Threshing-machines are year after year be- cattle during the summer heat. The coming more speedy and more efficient in down of forest lands for pasture! their operations. Grabbers and cultivators novelty in the British Isles. have long been in use, though the anticipa- years ago, the late Duke of Ath tions of many of our agriculturists, that these that very fine cattle might ber implements would greatly supersede the use his Highland forests that had boot the plough, have not been realised. For down with the poa nemoralis for promoting a vigorous fermentation in the pose. soil-for overcoming the inertia of our mother earth, no implement has yet been ent woods, and increase in many s found superior to a well-constructed plough. number; we should also judicia

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Asat food for cattle more generally used? To mals, especially of such as do note

It is very desirable that Canadia be impressed with the necessity of: trees for timber, and of preserving! trees of their forests, so that in: young timber may supply the plat old. The present generation of la pants have no experience of the war ber, and experience is the most. teacher of the majority of mankind. is a reality in its teaching which a instruction can never supply. As: this, apprenticeships are judged a necessary for every trade and p We everywhere meet with the hence the necessity for premiumsa Our f@

But we must not merely nurture

It is impossible nemise their use. present system of fencing, so provaluable timber, can be much longer d, at least in the more advanced parts province. Hedges, stone-walls, or will shortly become an absolute ne-

The attention of our farmers canrefore to soon be directed towards ding of a suitable substitute for The Ossge Orange may be fences. on tender a plant for hedging purthis climate, the hawthorn of the country has been found in some of America to longuish under the heat; but there can hardly be a ist some of the Canadian species of the cock-spur, or cratagus crus-galli, uple, would make an excellent fence. s, we believe, can be readily bought ir seedsmen, and therefore experio determine its value could not be ome.

anting out of fruit trees has already deep held of the minds of our Caarmers, and it is certainly well worll the attention that it has received. .ny bushels of fine grapes, what vast es of plums and apples, might al-· Canadian farmer obtain at small n this we might take lesson from sians, who inhabit a country in many ilar to our own, and who prepare for int of winter by storing up a very lection of prunes, raisins, apples, &c. serve that the more wealthy yeowe beginning to expend no small the crection of permanent dwellings selves and their families. It is to d that the taste and convenience l in the crection of these buildings imensurate with their cost; but in ral or even urban architecture in is at a very low ebb. Congruity s commonly ignored, and too often I meretricious ornament is substituwhful elegance of construction, and of character. We mean not to ad lavish expenditure, for elegance use are by no means synonimous The useful and the ornamental are ly united in the works of nature, are also commonly so in the best ns of art.

unual Exhibitions exhaust a large -r income, but they are also a great engaging public interest in favour ciety. It is important therefore they should. The riches of the teening soil

that those exhibitions should be made as attractive as possible. Novelty is an element very necessary for their success, and therefore the Horticultural Department is generally one of their most interesting parts. In this department the beautiful wild flowers of Canada, cultivated and justly admired as they are in Europe, might fill a small corner. In our native woods may be found hardy perennials, which for elegance, variety, and brilliant colours, may well compete with many of those sickly exotics which are now so much in favour. The Asclepias, Tubeso much in favour. rosa, the Lithospernum Officinale, the Wild Lupine, and Flowering Raspberry, are very showy plants; the Uvularia, Cypripedium, (mocassin flower), and Arbutus, are of peculiar form and singular elegance; the Hepatica, Sanguinaria, Gentiana, Liatris, Gualtheria Chimaphila, and Erythronium, are beautiful in themselves, and beautiful by con-Many of them are rapidly becoming trast rate in this County, and may even become extinct within our borders. We no longer bruise the luxuriant foliage and drooping flowers of the "Ladies' Slipper" under our feet; our eyes are now selcom gratified by a sight of the tall blue flowering stalks of the Wild Lupipe, the former ornament of our These plants, and many others, plains. have almost disappeared; their places are

taken up by the clover and gramineous plants, but still no lover of the beautiful would wish those elegant mementos of former years to be altogether forgotten and unseen.

We would impress upon the farmers of West Braut the importance of cultivating well, rather than of cultivating much. Modern civilisation seems to shoot out, as it were, into two branches or distinct systems, the one dividing the whole country into numerous small farms, which comfortably sustain a very dense population,-the other congregating the people into vast masses in the meicantile and manufacturing towns. The one system prevails in Belgium, which has a population of some 400 persons to the square mile, and under which system, crops are growing incomparably greater (if we may believe late travellers) than those produced under the Scotch system of husband-The other system prevails in England, ry. whose large hereditary estates, and busy hives of manufacturing industry, cannot, for very many years, have their counterpart in this colony. Nor is it perhaps desirable that have never yet been fully developed. Better | perhaps, is it that the public domain, the sustenance of the nation, should be the patrimony of the many, than the inheritance of Better perhaps is it to win from the few. the fruitful earth the abundant fruits that spring from her bosom, than to work out a precarious and unhealthy existence amid the vices and temptations of a town. Upon a farm, there is continual and remunerative employment for every one, great or little. No stagnation of trade, no fickle change of fashion can render wheaten bread unacceptable, or put beef and mutton out of use. With ordinary prudence, almost every Canadian may literally "sit under his own vine and fig tree, having no one to make him afraid "

#### TOWNSHIP BRANCHES OF WEST BRANT SOCIETY.

BURFORD.—One hundred and thirty-two members; amount subscribed, \$131; share of public grant, \$56; receipts at show, \$24.-85; total received; \$214.85. Paid in premiums, \$146.50; expenses, \$34.02; balance in hand, \$34.33.

#### BRUCE.

COUNTY SOCIETY.—One hundred and two members; amount of subscriptions, \$102; received from Township societies, \$385; received from sale of seeds, &c., \$155.55; Government grant, \$479.08; total receipts, \$1122.53. Paid Treasurer, balance from 1858, \$11.50; copies of Agriculturist, \$6.50; paid for seeds, freight, &c., \$152.-42; paid townships branches, \$660; preminums, \$131.25; expenses and sundries, \$149.24; balance in hand \$11.62.

Officers 1860. President, Wm. Withers, Kincardine; Vice-Presidents, Wm. Millar, Kincardine; William Blair, Pine River; Treasurer, Malcolm McPherson, Kincardine; Secretary, John Mosely, Kincardine.

### Extracts from Reports.

This society held its seventh annual exhibition, at Kincardine. on October 4th, 1859. In consequence of the late depression in agricultural affairs, it was not quite so extensively supported as upon former occasions. The horses were of a useful and respectable sort, though rather low in conditi n. The cattle were good, particularly the young stock. The sheep, in point of quality were very superior to those shown in previous years. Hogs shewed a decided improvement. The show of grain was rather limited, but

some excellent specimens were estiboth in fall and spring wheat. In the and vegetable department, the spec were not only numerous, but very s in quality, considering the untare weather they had to contend with. Iz cabbages, both white and red, beets, c and onions, being enormously large. were some beautiful grapes. Sever. of cauliflowers, greens, &c. Mess Innes, showed a most excellent specie pearl ash, manufactured at their me Kiucardine. In the mechanical depr a great variety of articles were shown elicited very strong recommendation the judges. The dairy department daced some most excellent specia The display of ladies' fang butter. was also very superior.

The prevailing character of the solic county is, except a narrow spaced sand along the lake shore, a rich loss average value is from \$25 to \$30 p and it is capable of producing very wheat, oats, and peas; and when older in cultivation, better barley v be grown in the Province, than county.

We cannot admire the generally: manner of cultivating and croppingt as it is a certain way to bring a poor to the occupier, and a most seriousi: the owner. It is this :--- after clearing of land, the first crop is generally (some times roots and then wheat), first crop be an abundant one, it is again, and in some instances three wheat in succession have been tat the same piece of land-after which of oats, such as it is, sowing a small of grass seeds upon it. It is then to remain in that state to graze @ fodder, for four or five years, in or nature may revive it, and give tim stumps to decay. The usual quar duced is from 10 to 20 bushels d rate wheat, and about the same of acre. This method of procedure is: but respectable, or yet profitable,: goes to show the ignorance of the Farming, it made beneficial to the must be acted upon in a systematic manner, and only under peculia stances should that system be varsome parts of England the three-field is used, in others the five-field, and

instance, after which, the five-field. think from experience the following a of crops would give greater returns any other which might or could be ed. If the clearance is made sufficiently in the season, say: 1st turnips; 2nd wheat; 3rd jess or outs; 4th wheat elover or timothy ; 5th clover or timoo jut for fodder; tith graze it with or young cattle ; 7th summer fallow, a good dressing of manute, and then But if not sufficiently early for hent. s. &e., say 1st fall wheat; 2nd oats; as; 4th spring wheat, with clover or v; 5th for fodder; 6th for pasturage; th summer fallow. Sowing yeas for d crop will smother all sorts of weeds, ave the soil in a good pulverized state After this we would e wheat erop. tive field system, which is, 1st fall reserving a portion for borly in the ; 2nd peas; 3rd spring wheat, with tessing of bainyard or artificial ma-4th oats; 5th summer fallow. ]f is sown sooner than the 6th or 7th cenerally makes too much strow, with slender grain, but after that time will good stem with a plump grain. should not be sown in the same field than once in six or seven years; but once in ten years it will give a better

By observing the above routine of r soil will be kept in a fresh luxu ate, and with favourable seasons will to yield an abundant increase. Early owing should be attended to, which ever fails in giving beneficial results famer, both with regard to the is well as the quantity of his grain. many of the farmers in this county a pleasure bear ample testimony to abundant harvest. At our late sa several of them spoke of having splendid return of from 32 to 36 of wheat per acte, the whole of mibuted their success to early sown the 26th of April, 1858, was sown d of mud wheat per acre on land tre had been turnips the season beof a very good quality. Aiso on ] whent, 1] bushel per acre, the rehich was 36 bushels per acre. On

it us to say, that in this county the spring ploughed, was sown 2 bushels of oats field system should be used in the per acre, the return was 404 bushels per acre; the quality almost superior to any I Lave seen in Canada. In these instances we do not attribute our good returns to the extra quality of the soil, so much as to the early sowing and to the favorable season.

The wages of working men are rather higher than they ought to be; 3s, 9d, per day for the agricultural labourer, and 6s. 3d. for the mechanic, are more than can be given by the generality of settlers, and these high rates prevent the work of improvement trom making that progress it would if wages were at a more reasonable stundard. From the newness of the county (the oldest township not having been settled more than about ten years) great improvements have not yetbeen obtained in the breed of cattle. The clearances not being sufficiently large to afford good summer grazing, nor that comfortable in due: a commodation which there ought to be, to protect them from the inclemency of the weather in winter. We think the Ayrshire breed, for dairy purposes, Durham for beef, and Devonshire for agricultural labour, the most suitable at the present time. A five year old ox, Durham half-breed, brought into Kincardine this season, weighed nearly 1000 lbs., and for quality of meat, would have been a very respectable acquisition to any butcher's stall in Canada. Sheep are only partially kept at present We think the Southdown the most suitable; fine wool, and good mutton, being taken into consideration. In logs there is a very great improvement. A few years ago the hogs of this county were miserably bad; almost a disgrace to their owners; at the present time they are good. Several have been butchered weighing from 450 to 600lbs, each,

Ilerticulture is in rather a feeble state; the general attention being given to the clearing of the land for the production of grain. However, there are a great number of gardens well stocked with small fruit trees, currants, gocseberries, &c., and a great variety of useful vegetables. The planting of apple and other fuit trees, has been pretty well attended to, as we believe there are upwards of 300 acres of orchard ground a which was harvested 32 bushels at the present time in this county, and with favourable seasons, we may safely calof April, 1859, was sown some culate upon having a good annual supply of this highly esteemed and useful fruit. The climate of this county quite agrees with the May, after a slight manuring and growth of all sorts of fruit trees; therefore in the course of a few years the planter will receive an abundant return for the care and attention he has devoted to the training and protection of his orchard and fruit garden.

Buildings.—The old Log Shanties are disappearing, and giving place to neat and commodious Frame Hou-es. Large frame barns, with other suitable buildings are now adorning a great number of famsteads in this county; thus enabling the farmer to preserve his grain from spoliation, and bring it to market in a fit and proper state for consumption.

With legard to Draining, we may say, it is in its very infancy, as until the stumps are gone it would be impossible to perform it as it ought to be, or with any certainty of repaying the farmer for his outlay Lands that are sufficiently elevated for a clean draining of the surface water, should be formed into ridges of from 15 to 18 feet in If nearly a level surface, make width. ridges from 9 to 12 feet in width; give them three ploughings inwards; cut a drain up each furrow, from 18 inches in depth at the top end, to 30 inches in depth at the lower end of the field: each of the furrow drains opening into a heading drain, from which there should be out-falls at every 20 rods distance, otherwise the silt or loose soil might recumulate and fill the opening. Pipes of two inch bore, 12 inches in length for the furrow, and four inch hore for the heading drains, are now generally used in England. They are sold at \$5.50 for the small, and \$8 for the large size, per thousand. But where there is a firm bottom, we profer the open horse-shoe shaped tile of 4 inches in width, by 6 inches in height, and 12 inches in length. They are sold at from \$4.50 to \$7 per thousand, according to size. Where the ground is generally wet, it will require deep draining, say from four to six feet in depth, if you can obtain a sufficient fall for the water; no other method will have the desired effect.

Excepting the frosts in June, we are happy to say, the crops did not suffer during the past year in any way whatever. We have not heard of the least symptom of the wheat fly shewing itself in this county, and hope that with proper care and caution, it may be prevented."

#### TOWNSHIP BRANCHES.

BRANT.—Nincty-seven members; amount about 70 pages. New Plants of 183 of subscriptions paid, \$80; balance from such new plants as have come parts

1259, 86.75; share of public grant, total receipts, \$176.75. Paid in prez \$85; expenses, \$49.54; balance in surer's hands, \$42 21.

#### Extract from Report.

Our grain crops are evidently imples especially wheat, both fail and spring (Hasgow seems to auswer our sola mate best, and we hope ere long tos iron train passing our doors and h away some of our farm products to su gize of an admiring multitude and th scrutiny of the judges at the Provins hibition, when we feel confident th township shall receive a full share: laurels distributed on those occasions.

Oats, peas, barley, all excellent, l the want of roads to get to market or ers only raise sufficient for home co tion. Roots of every useful descript improving and cultivated upon the extensive scale throughout the towns not generally as cattle food, with the tion of turnips, of which there is a p supply. Mangels, beets, parsnips, &c., grow to an enormous (almost inc size, as does also every variety of vegetables. A cauliflower, cut on the September, weighed on the 1st of ber (after being divested of all sup leaves, &c.,) 911bs.; the florer's a was 17 inches.

The dairy department at our and was very creditable and the manys samples of delicious butter, choose a sugar betwhened the right sort of wives.

#### (To be continued.)

# Éditorial Notices.

THE HANDBOOK OR ANNUAL RECOM-TICULTURAL AND AGRICULTURAL STO By Wm. P. Sheppard, Proprietor of the cultural Agency, New York. This, we suppose its principal object is to Mr. Sheppard's establishment, contain amount of interesting and useful in Annongst the contents are a chapter ing, giving some valuable hints on the tant art. A descriptive catalogue of vegetables and other garden plants, tions for the culture of each; this of about 70 pages. New Plants of 18% such new plants as have come participants.

Flowers of the Year-15 pages. New List of Agricultural and Horticultural 15, issued from the United States Patent , during the year 1859. List of Horticuland Agricultural Journals. Horticultural tory, heing a list of the establishments of userymen, Seedsmen, Florists, &c., in the 1 States and Canada, with the principal - establishments doing business in this , occupying some 30 pages.

ACKWOOD'S MAGAZINE FOR JULY-New Leonard Scott & Co. Toronto: H. 1. This is an excellent number of Black-

The articles are: The Secret History Russian Campaign of 1812-Sir Robert n: Captain Speke's adventures in Somali Part III.; Poetry; Judicial Puzzlesampden Wonder; The Royal Academy her Exhibitions; Norman Sinclair-An ography-Part VI.; An Election in : Erinnys: The Reform Bill and the arty.

TRANSACTIONS .- A pressure of occupaprevented the requisite attention being the usual abstract of the Societies' Re-It is commenced however in the present , and will be continued as rapidly as circes will permit.

IALF VOLUME .--- We beg leave to repeat Agriculturist will be supplied for the 5 commencing July 1st, at 25c per copy, vies for \$2.00. The half volume will f 12 numbers of 32 pages each, and not printed as a distinct volume, will a good sized book of 384 pages. The abers can be supplied from the 15th We. per copy to the end of the year.

5.0TIA .- We regret to notice that "The f Education and Agriculture for Nova is insufficiently supported to pay ex-"! that the editor and publishers have d to caspend the periodical for a few order to ascertain whether the Teachimers are really desirous to have an epresent their cause. We hope that the Blue Noses will bestir themselves

during the year; extending over 25 pages. | a little, and not allow so well conducted and useful a journal to die out for want of adequate support.

To Correspondents .- Communications for the Agriculturist should come to hand a week before the date of the number in which they are to appear, as the paper must go to press several days before the nominal date of publication.

### Alarkets.

#### TORONTO MARKETS.

July 28, 1860.

There has been but little grain offered in the market during the past week. . In other articles of farm produce there has been a more liberal supply and ready sale. The latest quotationsare as follows:

FALL WHEAT-\$1 25 a \$1 38 per bushel. SPRING WHEAT-\$1 121 a \$1 17 per bushel.

BARLEY-50c a 55c per bushel.

OATS-32c a 34c per bushel.

PEAS-50c a 55c per bushel.

FLOUR-Extra Superior, \$6 50 a \$6 70; extra. \$6 a \$6 20; fancy, \$5 25 a \$5 60; superfine No. 1, \$5 15 a \$5 20; superfine No. 2, \$4 90 a \$5: fine, \$4 20 a \$4 25.

HAX-new, \$9 a \$14 per ton. STRAW-\$5 a \$6 per ton. Wool-29c a 30c per lb.

BEEF-first-class cattle, \$5 50 per 100; second class, \$4 50 a \$5; inferior, \$3 50 a \$4.

SHEEP-\$3 50 a \$4 cach. LAMBS-\$2 cach.

Ponk-\$6 per 100.

HIDES-\$5 50 per 100; Tallow, \$7 50 a \$10. SHEEP & LAMB SKINS, 40c each.

POTATOES-new, plenty at 30c a 50c per bushel.

BUTTER-fresh, 13c a 15c; tub, for shipment, 10c a 11 2c per lb.

Eccs-13c a 15c by retail per dozen.

CHICKENS-25e a 30c per pair.

Drcks-30e a 35e.

### NEW YORK MARKETS.

New York, July 27.

FLOUR—receipts 3,691 brls; market heavy, but prices without important change; sales 10,400 brls at \$5 to \$5 10 for Superfine State; \$5 10 to \$5 30 for Extra State; \$4 90 to \$5 05 for Superfine Western; \$5 05 to \$5 25 for com-mon to medium extra Western; \$5 25 to \$5 45 for inferior to good shipping brands round hoop Ohio.

CANADIAN FLOUR-dull and drooping; sales 480 brls at \$4 95 to \$5 for Superfine; \$5 05 to. \$7 50 for extra.

Rve Flore-steady at \$3 50 to \$4 20.

WHEAT-receipts 11,042 bshls ; market with-The scarcity of freight out striking change. still restricts the export demand ; sales 35,000 bshls at \$1 21 for Racine spring; \$1 20 to \$1 21 for Milwaukee club; \$1 20 to \$1 25 for win-ter red Western; \$1 46 for prime white Indiana; \$1 30 for new amber Southern.

RYE-quiet at 80 to S1c.

BARLEY-nominal.

Conx-receipts 31,815 bshls; market little firmer with small supplies; sales 22,000 bshls. at 61 to 62c for common to prime mixed Western.

OATS-steady at 37c to 40c for Western, Canadian and State.

PORK-heavy and lower: sales of 700 brls at \$18 87 for old Mess; \$18 to \$19 12 for new Mess ; \$12 50 for Prime ; \$14 to \$14 25 for new Prime.

BEEF-steady and unchanged; sales 325 brls. HAMS-\$11.

#### MARKETS AND CROPS IN ENGLAND.

#### (From the Mark Lane Express of July 9th.)

"To be able to report a brilliant week after such protracted wet and cold weather, is really a relief and a subject for gratitude. Haymaking has gone on extensively, a portion is already assured, and some carried with a better result than at one time was expected; the raised temperature previously to the dryness having much improved the crop, which may now turn out an average. But those few, who in despondency commenced cutting in the wet, have been obliged to force off their new gatherings at damaging prices. With respect to corn and roots, there has not been so decided an improvement, the soil, especially heavy lands in low places, being apparently water-logged, though bound on the sur-Potatoes have no strength; neither wur-Yace. Wheat very slowly advances on the best zel. soils, and looks hopeless on the worst, as is the case with Barley; and there is no time now for a tillering or increase. But this makes it the more important that the fine weather should last till harvest is over, as an abundant yield under the most favourable circumstances is impossible. Yet the markets have shown the usual sen-sitiveness under a clear sky, and have universally given way fully 1s. per quarter. The rates at present are beyond speculative demand, and the quantity with better though not heavy foreign supplies being beyond millers' present wants, whose policy at such periods is always reserved. Foreign markets, too, have rather fallen back, upon the dull advices hence, excepting Odessa, which had been sent up by English orders; and perhaps there is no country but France that will be less than an average. There the rates have given way 1s. 6d. to 2s. per qr.; but the general lateness certainly places the aniversal yield in greater jeopardy. As respects

the devastation of locusts in Russia it tur to be but trivial, and there is every pr that the South will prove to be the richs in corn known for a long period. In Sp places are well reported excepting Barn and rates at Seville have been falling fast America Wheat has been buoyant, and quantity exported; but Flour was rather) No arrivals off the coast reported since 29th to July 6th. The business reported. follows: the late seasonable weather b effect of reducing the sales of only 8 cc Maize arrived-a cargo of Port Lagos at 2 American at 32s. and 31s. 9d. per 48 and 2 Odessa at 33s. per 492lbs. Barley sage-Danubian at 25s. 6d. per 400lbs, (due in London) at 24s. 6d. per imp, qr.; bian per steamer at 25s. 6d. per 400lbs.

The sales of Wheat noted last week 87,951 qrs. at 58s. 5d., against 59,350 q The London averages were 56s. rs. The imports into the principal 1859. 1.532 qrs. of Great Britain for the week ending 29d in Wheat and Flour were equal to 96,989

IMPROVEMENT IN TANNING. - The im ment in tanning hides and skins of all d tions, just patented by Charles L. Rol of Wankesha, Wis., consists in the cmpk of terrajaponica-purified by a very simple cess-in combination with certain salts c nesia and potassa, whereby both uppe sole leather of superior quality are prod. By this process tanning operations n conducted altogether independently oft. and hemlock barks of our forests, in an tion where plenty of water can be obtain

AYRSHIBE CATTLE -Patrick R. Wright Cobourg, C. W., breeder of Ayrshire. Sheep, &c., has several young Bulls and for sale. His herd is well known as on best in Canada West, and his terms of liberal.

Full Pedigree of all animals-U. C. Register.

The Agriculturist,

OR JOURNAL AND TRANSACTIONS OF THE OF AGRICULTURE OF UPPER CANAD.

IS published in Toronto on the 1st and 102 month.

Subscription—Ualf a dollar per annum for discleven copies for Five Dollars; Twenty-two rops EF Dollars. &c.

Editors-Professor Buckland, of University 6 routo, and Hugh C. Thomson, Secretary of the Res. culture, Toron's, to whom all orders and remato be addressed.

. r.ated by Thompson & Co., 77 King, Street. Toronto.

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