Technical and Bibliographic Notes/Notes techniques et bibliographiques

-	12X	<u></u>	16X		20X		24X	· · · · · · · · · · · · · · · · · · ·	28X	<u> </u>	3	12X
					4							
-	item is filmed : ocument est fil							26X		30X		
☑	Additional cor Commentaires		entaires:	Conti	nuous pag	ination.						
	Blank leaves a appear within have been om Il se peut que lors d'une rest mais, lorsque pas été filmée	added duri the text. I litted from certaines auration a cela était	ing restora Whenever in filming/ pages bla apparaisse	ation may possible inches ajo int dans l	, these outées e texte,		slips, ensure Les pa obscu etc., c	tissues, e e the best ges totale rcies par e ent été filr	r partially tc., have possible ement ou un feuille nées à no eure imag	been refil image/ partieller t d'errata, uveau de	med to nent une po façon	elure.
/	Tight binding along interior Lare liure serre distorsion le le	margin/ ée paut ca	user de l'	ombre ou			Seule	edition av	isponible	a.h.aa	l b., o.,	
	Bound with of Relié avec d'a								mentary natériel si		tuire	
	Coloured plate Planches et/or						_	y of print ė inėgale	varies/ de l'impr	ession		
	Coloured ink (Encre de coule					\checkmark		through/ parence				
	Coloured map Cartes géogra		n coul e ur				-	detached détachée				
	Cover title mis Le titre de cou		anque			V			red, stain es, tachei			
	Covers restore	ed and/or staurée et	laminated /ou peliici	/ ulée					and/or la es et/ou p			
	Covers damag		•					damaged				
	Coloured cove							red pages de coule				
origin copy which	The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the eproduction, or which may significantly change he usual method of filming, are checked below.				•	qu'il de c poin une mod	lui a é et exer t de vu image ificatio	té possibl nplaire qu e bibliogr reproduit	né le meil le de se p ui sont pe raphique, e, ou qui méthode sous.	rocurer. L ut-être ur qui peuve peuvant e	es déta liques ent mo exiger (du difier une

THE

Canadian Agricultunist

AND

JOJRNAL OF THE BOARD OF AGRICULTURE

OF UPPER CANADA.

VOL. XV.

TORONTO, JUNE, 1863.

No. 6.

THE PROVINCIAL EXHIBITION.

We publish in this month's issue the prize ist and regulations of the Eighteenth Exhibiion of the Agricultural Association of Upper Canada, to be held in the City of Kingston, eptember 22nd, 23rd, 24th and 25th, 1863. heattention of our readers and the public generlly is earnestly invited to an inspection of the ist, which will be found to embrace almost very article of importance connected with agcultural and manufacturing industry, including orticultural and artistical productions. It has ways been the practice of the Association to ward a money prize or a diploma to such arties of merit as may be shown, although not entioned in the catalogue; and the occasion of be Provincial Show consequently presents the lost favorable opportunity to producers of every scription of bringing their various productions fily before the public, and to have their merits termined by competent and responsible judges. he sum offered in premiums has been of late ars considerably increased, amounting now to e magnificent sum of about Twelve Thousand pllars! We think the Board has acted wisein thus keeping up the amount of the premium t; as large and numerous prizes will be sure draw together a great number of visitors and mpetitors, from whom are chiefly derived the ans of paying the premiums and expenses of ducting the Exhibition.

Aingston is most favourably situated for a sat gathering of this sort, it being of conve-

ment access both by rail and water, and occupying a sort of central position between the middle and eastern sections of Upper Canada; and is readily reached both from Montreal and the neighbouring States. If, therefore, the weather should prove favourable, another display of our great resources, and of the status of our art and industry, may confidently be anticipated that will reflect honcur and credit on this rapidly, advancing portion of the great British Empire.

As Kingston was the first of our cities to erect extensive buildings of a permanent character for the accommodation of our Provincial Exhibitions, nothing will now be wanting to render that accommodation still more complete, so as to meet fully the constantly increasing demand for space. With that view the Corporation have granted two thousand dollars, and the Council of the United Counties an additional two thousand, so that our farmers and mechanics, and other exhibitors, may safely reckon on having plenty of space, thoroughly protected, for exhibiting their various productions.

It will be seen from the List that numerous prizes are offered in the department of Arts and Manufactures, and it is much to be desired that our artisans should begin immediately to prepare for the occasion, if they have not done so already. Not a day should now be lost, and every effort should be made to sustain and improve this interesting and useful department of the Exhibition. We trust also that the leading farmers and stock breeders in every part of the Province will be represented on this occasion but it should not be forgotten by the inhabitants

of the central and eastern sections that we must mairly look to them for the bulk of the material. As Kingston is situated, we may fairly expect a considerable amount from Lower Canada, and some from the State of New York, particularly when it is remembered that in Live Stock and Agricultural Productions, the competition is not confined to this Province. In Horticulture it will be perceived that the arrangement of the premiums has been somewhat altered, and it is believed improved; and it is hoped that the amount of prizes in this very interesting department, will bring out extensive competition. In a word, we trust that nothing will be wanting, either among the directors or the public, to make our next Provincial gathering what most of its predecessors have proved, worthy of so great an occasion, stimulating industry, and confirming progress, as the normal condition of Canada.

CULTIVATION OF ROOTS AND INDIAN CORN.

EDITORS OF THE AGRICULTURIST.—Seeing an article in your valuable paper urging Farmers to write for their paper, and being a Farmer, of course it applied to me as well as others. Now I think if you had a page, or even a column, for inquiries and answers, it would be of great benefit to your readers. It would give them a chance both to ask and answer questions. The article you gave on root cultivation is certainly an excellent thing, it gives people a chance to know what kind of land roots grow best on. I consider that article worth the subscription of the Agriculturist. Now I have found, as I see in that article, that roots grow best after sod. I generally turn sod down one Spring, sow it with peas, and next Spring cross-plow, cultivate, and harrow it well, (not using any manure,) then drill 24 inches, and sow 20th June, then roll with a two-horse roller; and I generally get First prizes for Turnips, Mangel wurzel, Beets and Carrots, at the Fall Fairs,

Now, if you allow to make an inquiry through your Paper, I will do it. How is the best way to manure corn and what kind of manure is best; if lime, ashes and plaster mixed equal would not be good as a top dressing?

J. R. S.

Brampton.

[The Indian Corn Crop is a voracious feeder. Almost every kind of manure, farm-yard or artificial, may be used with advantage. Dung,

from the farm-yard, stable, or hog pen, may be spread liberally broadcust, and ploughed in.—
If the land has been previously ploughed, a may be covered in with a light furrow, and harrowed to mix well with the soil before marking out the rows. An application of limespread broadcust upon the surface is beneficial. Ashes also are an excellent manure for Indian Com, and may be used in the proportion of about half a pint dropped upon each hill. Plaster also, in smaller quantities, has a good effect Our correspondent may safely try the mixture he proposes. It is frequently used in the United States. We shall be glad to hear the result of his experiments.—Eps 1

CULTIVATION OF CORN.

EDITOR AGRICULTURIST,—Sir: Feeling as interest in the Agricultural pursuits of the Province, and thinking perhaps I was one of those you call upon so earnestly to contribute to the Agriculturist, I can perhaps give some hints in regard to the cultivation of corn that will be of interest to farmers generally.

There is no crop, in my estimation, pays well as Indian Corn. As a substitute for summer fallow it follows closely to the turnip and deserves in most parts of America to take the place of the turnip in England. Ground fitted properly for corn is almost sure to bring good wheat the following spring. The stalks as fodder I have tested for a few years, and find them preferred by cattle to hay, and w ccarse feed will produce such a flow of rich milk. I have noticed in my own observation that stalks properly saved would, when fel to milch cows, immediately increase the flow of milk, when hay had previously supplied their place. The grain cannot be surpassed for fattening purposes, either in beef or port for quality or firmness of flesh. Pork fatted on peas will be oily, while corn-fed will he firm, and bring a better price in market. The quantity produced far exceeds that of med grains; I have grown on an average sixty for bushels per acre, or I believe three times di quantity usually grown of peas. Why tarmen have such a dread in Canada against raisis, corn is more than I can tell; the seed pe acre is far less expensive than that of a other grain, while it does not have to planted until all other grains are in.

My plan for fitting the ground is as follow. I select a piece that will do for nothing a if I have it. In the fall I manure with good manure as I have, plow in deep, *

ten inches, and then harrow it down. The following spring, about the 15 h of May, I draw on all coarse horse manure made the previous winter, and commence to plow it in about the twentieth of May. After plowing, drag it thoroughly. I now take a marker, which is made by boring holes four feet apart in a four by four scantling, and placing therein large pegs made of hard wood, then bore holes and place some poles in for shafts, fasten on your whippletrees, put in your horse, and commence to mark your ground, both ways if you like. I generally try to plant straight one way by stakes, put from four to six grains in a hill, cover with fine fresh dirt, spat it down with the hoe, and keep your feet off. Just as soon as you can see it coming up sufficient to follow the rows, start the best cultivator you can find both ways through it. In the course of a week or two cultivate again and follow with the hoe. After you are done hoeing plaster it lightly, say one handful to four hills. the time the corn is a foot high run a small plow through, throwing the dirt towards the hill, then with the hoe dress it up, removing all weeds and suckers, if the grain is your object; if not, let the suckers grow, and my word for it you will have a crop you will be proud of, and willing to try again.

Duffin's Creek, May 10th, 1863. S.E.C.

ON LAYING DOWN MEADOWS.

Editors of the Agriculturist.—Gentlemen, -We hear of and see a great deal of misery amongst the cattle of Canada, caused by the poor system of our farmers of sowing so much wheat and neglecting what ought to be sowed—hay, and plenty of it. I know by experience, and they would find out if they would only try it for a few seasons, that they would be gainers by it. It is absurd to think that the farmers of Canada cannot keep their fattle alive when they have the means in their lower to do so; but they are too blind to see hat they are standing in their own way to fortune. They think that they are doing great hings when they have got all their fields turnd over ready for sowing with wheat; but they re greatly mistaken, for they have done the ery worst thing they could do. Where is heir hay and oats to keep their teams in work-Where is ng order? They have neither. When spring omes they must go and hunt up enough of ay and oats to put their team through the ork, and it mostly turns out that their neighors are in the same fix as themselves, and bey cannot get what they want; so they have o do as they can, and that is not very we'l ou may suppose, but still it has to be done, nd no help for it, unless they change their

Now is it not infinitely better to have enough to keep their cattle, and have the pleasure of seeing them in good order than to have them like two boards stuck together? But it will always be the same way unless they make some alteration in their domestic economy. They may ask what alteration they can make? Well, I will tell them what they can do; but it will take some time to realize anything, on They must account of the state of their land. first take one or two of their fields, and get them into good heart by manuring them well, and then get them well ploughed-they know how to do that by this time, for they have done it often enough—then sow it with wheat or oats; the first is the best, but the latter would not take so much strength from the ground, but if they are sown too thick they are bad for smothering the grass, so wheat is preferable, as it is not so close at the bottom, and it will give the grass a chance to grow. Then, when they have got them in working order, they can proceed as before. The fields that were sowed first can lie in grass for three years, not more, for then they begin to get worse, and they will not pay to keep them any longer, but turn them up and sow peas on them, and then they will come in to sow fall wheat on, if convenient, if not they will come in very well in the spring, and then you will have a crop that will pay itself, which you could never have by sowing grain every year on the same field. tion is the thing, and that you will find out to your gain, if you will keep at it, and you will have no trouble to decide what you will put on this field and what on that—it is as plain as a black spot on a sheet of white paper.

Messrs. Editors,—hoping that the farmers will consider this well before they condemn it,

I remain,

Yours, &c.,

JOHN DOBIE.

Mosa, C. W., April 30, 1863.

HEMP.

We are of opinion that the cultivation of Hemp is deserving of much more attention than it has heretofore received in this Province. In view of the importance of directing the attention of our farmers to the production of some textile fibre as an additional item in their operations, considerable prominence has been given in the pages of the Agriculturist, for some time past, as well as in many other public journals, to the culture of Flax. But the cultivation of Hemp equally deserves the

consideration of the farmer, and probably would prove quite as profitable a crop as Flax. On these considerations we have pleasure in giving insertion to the following very coneise and practical Essay, written, as we infer, at the instance of the Iowa State Agricultural Society, but which will be found equally valuable, for the information it gives, in Upper Cauada.

Essay on Hemp Culture.

BY J. L. BRADFORD, PRESIDENT OF THE KENTUCKY STATE AGRICULTURAL SOCIETY.

Sin,-The culture of Hemp is an interest of great and growing importance in the great West. Its production heretofore has been mainly confined to Kentucky and Missouri, but there can be no reasonable doubt in the minds of those who have given the subject the least attention, that Illinois, Iowa, Minnesota and Wisconsin, have vast advantages over the two named States in its production. Many writers have advanced the idea that Hemp, like Cotton, could not be grown by free white labour; and that its production would, for some time at least, be confined to the slave States. Nothing can be farther from the truth. The climate the very best adapted to Hemp growth, is found far north of the home of the negro, and where he would absolutely perish from the effects of climate. Hot, short, quick, forcing seasons of growth, just such as the region referred to actually possesses, are, of all, best adapted to the plantgrowth of this great staple, and the day is not distant when the named States will be as noted Hemp producing States as Kentucky and Missouri ever were.

It is to be regretted that in our Census returns, Hemp and Flax have been confounded, but it may, however, be safely assumed that the growth and preparation of Hemp is so far below the actual consumption of the country as to assure the Iowa agriculturist of a continued good demand and paying prices for many years to come; and the experience of Kentucky and Missouri has fully proven that the production of even an inferior staple has been and is yet remunerative. The reader must bear in mind the fact that American Hemp is almost exclusively what is technically called dew rotted, that is, spread upon the surface of the earth and there rotted by the slow process of the elements. grows more Hemp than Flax for the linen manufacture, and the finer grades of cordage The fibre is greatly superior and twines. to American, from the fact that her climate is of a lower temperature than that of the portion of this country that grows Hemp, and the further fact that she has abundant supplies of pure soft water for steeping in the rotting process; and the same is true of the

Russian production. The soil of Kentucky is as well adapted to the growth of this plant as any in Europe or America, but there her adaptedness ends; her general temperature is too high and she is entirely destitute of water of the proper quality for the steeping process hence all attempts to furnish our Navy from this State have been failures, notwithstanding that department has offered great inducements to her growers to water-rot. Iowa has certainly a climate much colder than Kentucky, and pure soft water in her small lake and streams without limit, and most certainly a soil equal in fertility to any on the globe .-Why may not then her enterprising people reach forth their hands and lay hold of this prize, so well adapted to her soil, climate and situation. In the process of dew-rotting, the fibre, especially in warm climates, is material ly deteriorated, and in some cases so far in jured as to produce a very low grade of lint unfit for anything but the very coarsest and lowest grades of bagging. This is especially the case when exposed to the dew process in open wet winters in Kentucky, thus proving that the true Hemp latitude is north of this Cold, snowy winters, on the contrary, State. universally produce an improved quantity of lint, always brighter and stronger.

CULTURE OF SEED.

The first step in Hemp culture is the production of good sound plump seed. Landin tended for seed must be in good tilth and well prepared for planting by corn planting. It should be laid of in straight rows four fet apart each way and planted in hills, seven a eight seeds to the hill. The same rules ob served for cultivating corn will apply in the after culture of Hemp seed. When the plant reach six or eight inches high, they should be thinned to from three to four plants. Hem plants are divided into what the farmers cal male and female, the former producing the pollen or impregnating powder, the latter bearing the seed. A very little observation will enable the growers to distinguish between As soon as they can be distinguished the male should be drawn up by the root, or cept here and there a solitary plant left, the the female plants may be properly imprega The female is to be retained until is seeds are perfected, when it is to be harvest. by cutting at the ground and removal to come When cured detach the seed with a stor stick of convenient length, winnow and p up in barrels or sacks, perfectly dry, out of the way of rats and mice.

PREPARATION OF LAND.

The soil for Hemp must be a strong calcanous, deep, warm, loamy, perfectly dry a deeply and thoroughly prepared by plowintil a fine state of tilth is produced, more less according to its previous condition.

PUTTING IN THE CROP.

The ground having been faithfully prepared, the grower must hasten the operation of seeding with the utmost dispatch, as the earlier the seeding, as a rule, the heavier the lint of the plant. Mark off the land with a small plough and very shallow furrow, or it may be marked off by a drag made of a small log of wood; anything to make a line to guide the sower accurately; then proceed by hand to broadcast your seed evenly at the rate of fifty pounds of seed per acre as the minimum or even up to seventy pounds as the maximum quantity, varying with the strength of the and; the object being to produce as thick a growth of plants as the land will sustain. the plants set too thin on rich soil the stalks grow too coarse, producing a coarse and inferior lint; on the contrary, if seeded too thick the growth proves so short as to materially affect the value of the crop. In the latitude of the hemp growing section of Kentucky the seeding is mostly done from the 1st to the 15th of April, and the land generally plowed the fall before.

In Iowa the seeding should be done as soon as the ground proves to be in good dry working order; although the seed itself seems very tender and its vitality easily affected, and its germination after sowing often seriously disfurbed by unfavourable circumstances, yet, when once above ground and fairly set, no ordinary frosts that destroy other vegetation, seem to affectit; hence, but little danger need e apprehended from late frosts, that prove destructive to corn. The seed being sown, proceed to cover them up with a light harrow by running both ways to secure uniform results. The shallower the seed is covered in a noist soil, the more certain the vegetation.-If the season and soil be dry, a somewhat keper covering may be necessary. Under avourable circumstances, the crop makes its appearance in a few days, and with proper un and moisture it rapidly covers the ground. From seed time until harvest, the laborer has only to watch its almost magic growth from lay to day. After having once covered the ground the crop is generally considered safe by the grower, yet he is sometimes doomed odisappointment. Hail storms prove very lestructive to the very tender watery growth If the young hemp plant; high winds damage he yield, but never entirely destroy the crop rom seed time until harvest.

RIPENING AND HARVESTING.

The maturity of the crop is indicated by a hange of color in the leaf, it gradually fading rom a deep green to a paler hue, also a sheding of the leaves, beginning at the bottom of he leaves and gradually extending up the talk.

The male plants ripen fully ten days in ad-

vance of the female, and in some countries where labour is next to nothing, the male is first harvested by being drawn up by the roots, the female being left standing; in our country such a mode of harvesting is impracticable; hence the American grower must divide the time as near as may be, between the earlier and later ripening, and thus secure the best results possible under the cir-cumstances. The male plant is covered with minute pods, bearing pollen, which at maturity burst and fill the whole atmosphere. It may be seen when the crop is stirred by a brisk breeze rising in immense clouds and floating away from the field. When this is seen in addition to the indications previously named, the crop is ready for the knife.

This instrument is of a peculiar shape, perfected by long experience and need not here be described, as they can be purchased in the hemp region of Kentucky of almost any smith. The ancient manner of harvesting was by pulling as with flax, but this has long since been abandoned in favour of the hemp-hook, as the knife is called. Of late years, J. B. Mc-Cormick of St. Louis, Mo., and Versailles, Ky., has patented hemp-cutting machinery as an attachment to the McCormick Reaper. The writer has used the attachment and considers it a perfect success; it will supersede the hook in all level lands, and must prove well adapt-In Kentucky some of her ed to Iowa use. best hemp lands lie so rolling and so rough as to perhaps preclude its use. If the crop is to be cut with the hook, the operator is required to cut at one through a width corresponding to the length of the hemp and as close to the ground as possible, spreading his hemp in his rear in an even, smooth swath, where it remains exposed to the sun's rays until it is properly cured and the leaves sufficiently dried to detach easily. The last operation is sometimes omitted by careless growers, and some contend without injury. The hemp can be shocked or stooked (as the Yankee would say) with more compactness without the leaves than with them, and any operation having an influence upon the future security of the staple from dampness or atmospheric influence is certainly important; the perfect detachment of all the leaves should then in no wise be admitted. No time should be lost after the stalk is cured in getting the crop up Every additional day's and in neat shocks. exposure to sun, wind, rain or dew, is deteriorating its quality and subtracting from its quantity; the brighter the stalks can be secured the better. The same rules will apply to hemp that obtain in securing good hay.-The operator, in taking up the hemp, uses a rude stick cut from the branches of the nearest tree, about the length and weight of a. heavy hickory walking cane, taking care to use a fork of the branch (

delineated. With this primitive but very effective tool he can rapidly draw the stalks into bunches of the proper size for sheaves.-In operating he throws his rude hook forward its full length, and suddenly draws it toward him, each motion making a bunch; this he raises quickly from the ground, and, with his hook by a few well directed strokes, divests the plant of its leaves; he then binds his sheaf with its own stalks and passes on to repeat the operation. Other laborers follow and place the hemp in neat close shocks of convenient size, securing the top by a neat band made of hemp stalks themselves after the manner of shocking corn. Here it is suffered to remain until the whole crop is thus secured; as soon thereafter as possible, selecting clear dry weather for the operation, the whole crop is to be secured by ricking or stacking.

The same rules are to be observed in stacking as with grain—the object being to keep the crop secure and dry until the proper time for rotting arrives; in the latitude of Kentucky about the middle of October is the proper The crop must be in the rick or stack, until the summer heats and rains have passed and frost appears instead of dew, the whole crop is then removed from the rick, and rehauled back on the same ground on which it grew, there to be spread in thin swaths for rotting, where it remains without turning until properly rotted. This is indicated by the fibre freely parting from the stalk, and the dissolution by the action of the elements of the peculiar substance that causes it to adhere thereto. This stage is only to be learned to perfection by practical experience, yet the novice must have some information to enable him to begin to learn, and it is easily acquired by any one the least observant. When the operator finds his hemp sufficiently rotted, the wooden hook is again brought into requisition for drawing once more the The hemp swaths in convenient bunches. will have lost much of its weight, and can be bunched and shocked with less labor than at first, besides, at this last shocking, the binding is to be ommitted entirely; the hemp is to be carefully and neatly handled, all tangling to be avoided, and placed again in neat shocks and firmly bound at the top. Then comes the last and crowning operation—the breaking and dressing the fibre or lint for the market. The peculiar brake to be used, like the knife or hook for cutting, needs no description; they are manufactured in the old hemp regions at a cost of about \$5 each, and from long experience have been perfectly adapted to the uses required. The new beginner would save time and money by ordering a sample brake, from which any carpenter can manufacture as The crop is broken in this climate desired. directly from the shock in the open field by the removal of the brake from shock to shock

as fast as broken. In Iowa, owing to the severity of the climate, it would probably be necessary to remove the rotted hemp to the barn, where the labour of breaking could be more certainly performed. The coldest and clearest weather is the best for this operation -in fact, excess of dampness in the atmosphere suspends this latter altogether. The breaking process is laborious, yet more depends on the skill than the strength of the laborer.

I have endeavoured to describe the whole progress as practised by the best growers in Kentucky. The same mode will certainly apply to Iowa up to the rotting process. With her advantages, steeping in soft water is entirely practicable, by which she will produce an article of water-rotted hemp perhaps in no respect interior to the highest-priced Russian, which is fully double the value of the American dew-rotted, the only sort produced in this State. The writer is apprehensive that seasons are too short in Minnesots, Wisconsin and Iowa, for the successful growth of seed, a defect easily remedied by the purchase of seeds grown in more Southern latitudes, but not a shadow of doubt exists in his mind that they can, at the very first effort. produce better hemp than any territory South. Time, he thinks, will demonstrate that Illinois. Iowa, Minnesotta and Winconsin compose the TRUE HEMP REGION of the American continent.

FLAX CULTURE.

[An estermed correspondent sends us the accompanying article addressed to the St. Mary's Argus, by Mr. Black, an intelligent and enterprising farmer, formerly of Northumberland in this Province, but now a resident in the county of Perth. The article is somewhat long for our columns, but the importance of the subject, and its able handling by a practical man, justiff its reproduction in an unabridged form. Ens.]

DEAR SIR:-I have for some time been urging upon the Agricultural Societies with which I am connected, to consider the importance of endeavouring to induce the Farmen in this locality to try the cultivation of Flax From what I have observed of its culture Ireland, and having cultivated Flax for twenty in this Property of the contract years in this Province, I am convinced that Flax growing can be profitably introduced as an article of exportation into the rotation of cropping in this country.

The Blanshard Branch Agricultural Society at their late annual meeting, invited me to read an essay on the cultivation and management of Flax at our annual fair in April, which I re luctantly agreed to do, in connection with the cultivation of wheat; but since then, Mr. For rester and myself having concluded to erects

scutching machinery in St. Mary's, that period is deemed too late in the season for parties to benefit by any information which I might be able to give them. Therefore, with your permission, I will endeavor-although very incapable-to give the public all the information I can on the subject through your valuable journal.

Although it will extend this to a rather long article, yet I consider it necessary that I should state, in connection with Flax growing, my views on the injurious effects of having so much land under wheat in this country, lest it be magined that I am advocating the culture of Flax at the expense of a diminished quantity of wheat. My object is to show my brother farmers that the growing of Flax in the rotation, will increase the quantity of wheat, and at the ame time enable us to diminish the breadth of

and sown to wheat.

For 17 years I have experienced the ravages of the numerous insects, and I have invariably beeved that they did most damage to crops here land was poor and foul from a succession wheat crops; and also that where land was ich and clean, neither drouth nor insects ffected the crops nearly so much. There can e no doubt but that a series of cereal croppings s most ruinous to the soil, especially in this ountry where a sufficient quantity of manure is to applied, without which, and sufficient rest fom white crops, the land will get hard and terile. Crops on such lands may look tolerale healthy during a favourable spell of growing eatner, but a crouth of 8 or 10 days will cause his luxuriance to vanish into a poor stinted ellow appearance, with blades like horse's hair. low can it be otherwise, with a soil perhaps to he depth of 5 or 6 inches; like as much broken one, which cannot defend itself against drouth, either can it retain moisture, and a subsoil so and that the roots of plants cannot penetrate in arch of nourishment. With such poverty and ard usage, it is no wonder that the crops are eak and unable to stand a dry time and the sets of vermin. To enable us to produce tter crops, we will require to have a less ex-it under wheat and that in a better condition thorough cultivation, liberal manuring, and st from white crops.

There is no doubt but that the want of sufient capital among us is one cause for so much hd having been put under wheat. Wheat has en the main article that the farmer could de-nd upon to enable him to meet his engageents.—Therefore many have been obliged to wheat year after year in succession, although ty knew at the time that if they could spare t field from wheat, and clean, manure, and d it to grass for 2 or 3 years, that when put wheat again it would pay them double; but y required immediate returns, even if they

buld be small.

consider that the cleared lands in Canada th to support double the quantity of stock, they better fed than what is on it at present,

to give the land the least chance to continue to produce a quantity of wheat equal to what it is producing at the present time For years past the greater portion of the lands have been put under wheat and other cereal crops, leaving only a small extent for cleaning crops-hay and pasture-and nothing for cattle in winter but sapless straw, and that commodity they often get their own way of managing, frequently tramping their winter supply under their feet in a few months, and in April they have to roam the fields, if able, in search of food, poaching the land, and nipping the first buds of grass into the ground. The pasture is kept so bare that when a drouth comes, it is burned up and unable to sustain the stock during the whole summer after, and then when plowed under there is no rich sward to decompose and enrich the soil for future crops. It has been impoverished as well as the stock. Animals of all kinds require shelter from the winter blast and summer heat; so also does grass lands.

The solid and liquid manure obtained by having a full stock of well fed animals is a treasure to So also is a close, rich grass the farmer. sward turned under to rot, which makes firstclass manure for all kinds of crops.

We require to have more acres under hay. pasture, and cleaning crops, such as roots, flax, corn, &c., if we expect to grow wheat with

prof.

I believe that nearly one half the land which is now put under wheat, if put under regular rotation and sufficiently manured, would yield more wheat than the whole acreage now produces, and of a superier quality, and not so liable to injury by its many enemies.

The culture of Flax is becoming the subject of increasing interest to the people of this country, but more so at present on account of the war in the States; but there is little doubt, if machinery had been introduced years ago for preparing the fibre, that large quantities would have been grown over a large extent of Upper-

And when we reflect that the prosperity of the Province is mainly dependent upon the success of the wheat crop, we may wonder that our Bureau of Agriculture has not given their attention more toward encouraging this source of industry, which might not only have saved to the Province large sums of money, but have given us a surplus to export. I see that in 1844. £80,000 worth of cordage, bagging and canvass. was imported into this country, and of course this is but a trifle in comparison to what is now imported.

Before the war with Russia, Great Britain was yearly importing from that country alone, \$26,000,000 worth of flax, and in 1831, Britain imported 2,759,100 bushels of flax seed for

crushing and sowing.

Why might not Canada have a few millions of this money; with a soil and climate so peculiarly adapted to the growth of flax and hemp as ours is, we ought to export more value of this article than all our surplus of wheat now brings us. The oil also can be made a profitable item to us, as soon as there is enough grown to afford a surplus after the seed required for sowing. Flax seed yields about 5 gailons of oil per 3 bushels, or 22 per cent.—the remainder being oil cake.

Let it also be remembred, that a first rate man-of-war requires the produce of 320 acres of an average crop of hemp, for an outfit of cord-

age alone

From these figures and our own increasing wants, there is every prospect of finding a ready market for all that we can produce, and at full With a view of introducing machinery for scutching flax, into this locality, Mr. A. Forrester and myself went down to Waterloo, where we visited three mills, two of which were in operation, belong to Messrs. Perine & Co. These gentlemen own four mills in that section, and also have machinery for manufacturing They have been in the business ten years, therefore their experience, so freely imparted, is more applicable to us to be guided by at present, than to follow systems pursued in countries where the price and supply of labour, and climate are so widely different from ours. They scutch at their mills from 1,500, to 2,000 acres yearly, part of which they grew themselves, by leasing land from the farmers for the season.

The soil best adapted for the cultivation of flax, is a deep, rich, clay loam, with a considerable portion of decomposed vegetable matter in it; but it will grow on any soil provided it is rich and mellow. Except on sandy or gravelly soils, land should not be manured for the flax crop, but the preceding crops should be heavily manured; the yield will be increased and the fibre improved, with the increased quantity of manure applied to to the previous crop. Flax may be sown after any crop, if the land is rich and clean; such as potatoes, turnips, corn, and after peas or oats, if they have been grown on fresh sod land, if well plowed in the fall, and thoroughly cultivated with the harrow. But whatever crops precede it, the land, to ensure success, must be made fine by thorough cultivation. Then a heavy rolling, and the land will be ready for the good which were he can form be ready for the seed, which may be sown from the 20th of April to the 12th of May, at the rate of from 5 to 6 pecks to the acre; if later than this the fibre will not be so good, and will waste in scutching. Cover with a light grass seed harrow, or a brush clear of leaves will answer, but a uniform depth is necessary, and it thereby causes uniform growth and fibre of equal quality. Then a light roller run over it, and it will be finished. Some advocate 2 and 21 bushels per acre, but Messrs. Perine's experience does not justify so thick sowing. state that at the present time we must endeavor to get a heavy medium quality of fibre and a good yield of seed, until the people become better acquainted with the management; also,

they say, that when sown so thick the fibre is apt to be short, and I know this to be the case. And again, we must bear in mind that the Irish acre is a quarter larger than the imperial acre, and if we were to sow as much grain per acre as they do in Britain, our crops would be like windle straws.

If two bushels of salt are sown two days before the flax seed, to allow it to mix with the soil, it will kill a great quantity of the seeds of weeds, such as wild mustard, &c, and will keep the land moist, and save labour in weeding. ter and ashes sown over, after it is up, will enhance the value of the crop; use all means to push forward the crop to early maturity, a early maturity will not only produce the mon valuable crop, but will enable the farmer to put it before wheat harvest comes on, which is a great consideration. Flax is ready for pulling when the lower leaves appear to be decaying a getting yellow, and the seeds have changed from the white, milky substance to a greensh color, and firm. This is a very important point to be attended to, for if allowed to get too in the fibre will be injured, and if too green thesed will be injured.

And in pulling great care must be taken is keeping it even, as raveling or breaking the fibre before rotting causes it to rot unevenly, thereby causing a great waste in the scutching. The binding should not be done with straps of fibrecause as the sheaves should be small, so from 6 to 7 inches in diameter, it would waste large quantity of the fibre. A patch of early sown oats, cut rather green, when thrashed will answer to bind it with. When bound shock up with 10 or 12 sheaves to the shock, and there are signs of rain cap the same as in grain then in a few days (if dry enough for the set to be separated) the seed may be taken offit rippling, which is a kind of comb constructs of iron teeth, made fast into a plank, and che enough to prevent the balls from passis through. Then the flax is tirmly grasped

handfuls and pulled through this comb. In balls or seed then may be thrashed with a

flail or the thrashing machine. Thrashingt fibre with the flail bruses it.

Then, if time will permit, it should be spre out thin and regular on grass land, which bare, to rot, the rotting of which will be accu plished in from six to ten days, according to. humidity of the atmosphere; and when it. been from five to seven days on the give great attention must be paid to it by trying several times a day; if by breaking the sa separates freely from the fibre it is rotted; a the fibre will strip from the shove, the length the straw it should be lifted at once. this process it will require several turniwhich can be done with a small pole or t handle, then (if dry) it may be bound w larger bundles than before, and either taken the scutching mill or the barn.

But if there is not sufficient time to at

plish the rotting before the harvest commences, I should prefer putting it into hand stacks in the field, with a little thatch on the top to keep it dry, and shade it from the sun, there to stand until the hurry of harvest is a little over. And as it does not clip like grain, the seed will dry and mature considerably in these small stacks. This will be an advantage to the fibre by admitting the pulling to be done rather on the green side. It would be unsafe to be caught with flax on the ground when harvest commences, as it would likely be lost by neglect.

The grass-rotting system is pursued in Waterloo and considered the most profitable, under our present supply of labour. But I shall give you a few directions with regard to water-roting, &c.. &c. Ponds must be made along the sides of streams where the water can be conducted from them into the pond, and if it can be done a water course made to drain the pond, so as the flax may be washed by running a stream over it before it is taken out. Ponds should be five or six feet deep, and large according to the crop. The water should be soft, and pure from mineral substances, such as iron ore, &c., which abounds in this section. The water should not stagnate in the pond before the flax is put into it. The flax is put into the pond in layers, each somewhat sloped, with the root ends down, much in the manner that the wheat is moved away in barns, being kept straight; then, when partly filled, a portion of water let on, and the filling continued until full; then fill up with water, and cover with plank, or straight rails will answer; then stones, or weight of some kind to sink the flux, but not to the bottom. It will rot in from six to ten days, according to the warmth of the weather; and the same instructions will apply to therotting which were given before. When taken out of the water, it has to be teamed to a grass field, and there carefully spread out, not allowing clotted bunches to stick together; it will be turned more or less, and when thoroughly dry. bound up, and either taken to mill or stacked. Kiln drying is unnecessary in this country. In a letter to the Ohio Observer the writer says, That we have frequently grown as high as 25 bushels of flax, and 50015s. of fibre per acre. over an area of 15 to 40 acres, and the land after lax is better for wheat than a summer fullow, is the wheat is not so apt to rust, and the heaviest crops of clover have been grown when eeded with flax." A letter in the Observer, rom an agent of the American Linen Company, lates that from 2 to 21 tons of straw can be frown per acre, and every ton yields 300lbs. of bre, so that those who take pains to grow large rops will have, after scutching, 600 to 650lbs. flibre. For this he says, in a letter to the lovernor of Indiana, "We would gladly conact for two years to come. at the rate of 124 15 cents per pound, \$250 to \$300 per ton. ecording to quality. It costs us this to import and we would much prefer paying it to our wn industry."

Sir J. McNeil, who cultivated 600 acres of flex in Ireland, states that it is a mistake to suppose that flax is injurious to land. It may be sown every four or five years without injury. letter to the Observer, from Ohio, states "that on rich lands from 15 to 20 bushels seed and from 300 to 700 lbs. of libre may confidently be auticipated per acre." A neighbour of mine has grown 26 bushels of seed per acre, and the straw was over 31 feet long. If this fibre had been scutched it would have weighed 600 or 700lbs. of flax. The Agriculturist of 1844 states t at a person near Toronto ploughed over a clover sod, one rood, and sowed it with flax; the produce was 8½ bushels of seed, or 34 per acre, and the straw was over three feet long. An excellent article in your paper last week, by Mr. Donaldson, puts the average at 16 bushels of seed, and 500 lbs. fibre per acre The Messrs. Perine put the average scutched at their mills at 16 bushels, and 300 lbs of fibre, but have got as high as 700bs.; but say that a large yield cannot be got without great care, and good manag ment. Any other crop will abide more negligence. There will also be an advantage in the transportation of flax over wheat and other articles from this to the seaboard, as I suppose ten tons of flax would cost no more than ten tons of wheat (I think a car would contain that of fibre) the one worth \$2400, while the other is worth about \$297. From the foregoing figures, farm. ers can judge for themselves whether a portion of their land in flax will pay them better than so much wheat sowing. It will be readily seen that those who will prepare their land well, and take pains in the after management, will have more profit on one acre of flax than from 3 to 4 acres of wheat, at the average yield in former years, which was only 15 bushels per acre. and is far less this year, even if we allow from 8 to 10 dollars per acre, for handling the flax crop, which is a large allowance, as four hands can pull over an acre per day, and I have some hopes that before long machinery will be applied for that purpose, which will greatly enhance the profits.

A few acres of flax will bring a considerable amount of money, which will enable the farmer to allow a large portion of his farm to rest from wheat growing, thereby enriching his land, which will altimately enrich him.

This is what I have in view in treating the culture of wheat in connection with flax growing. Mr. Editor, if this very long article, setting forth these imperfect ideas of mine, should be the means of causing abler pens to give us more information which may induce farmers to try it, my object will be accomplished. I did intend to mention hemp, and explain what can be done with these extra quantities of stock which I spoke of in this paper, but I cannot trespass further at this time, but may at a future.

I am, dear sir, yours truly,
George Black.

We hereby guarantee to have scutching machinery erected in >t. Mary's, ready for operation this fall; and also, a machine for separating the seed from the straw, which we will hire out to the farmers for that purpose. Likewise, we will lend seed to parties in this vicinity, who may want it, until the fall. The only charge will be the discount on the money advanced, and all parties who require seed in this way will please enter their names and the quantity with Mr. Long as soon as possible, to enable us to ascertain what amount to order.

George Black Andrew Forrester. St. Mary's, April 1, 1863.

THE ENGLISH SEED TRADE.

[The following article from a recent number of the Mark Lane Express, will give our readers some idea of the magnitude of the business which England carries on in imported seeds. The home growth probably exceeds the amount received from foreign countries, while England exports very extensively agricultural and horticultural seeds to every portion of the civilized world.—ED.]

The Seed trade of the United Kingdom, agricultural and horticultural must be immense, judging by the extent of land under cultivation and the amount of seeds imported Leaving out of the question the grain and the seeds raised, saved, and sold at home, of which we have no return or data whatever, we fine by the official trade reports that the value of the seeds annually imported, now amounts to about five millions sterling, a sum that must give a considerable profit to many a cultivator and dealer. Thousands of acres must be under tillage yearly to furnish the harvest of seeds thus drawn from different quarters of the world, from India, from North America, Africa, and the Continent of Europe, for the use of our farmers and garden-The kinds of seed enumerated in the Board of Trade list of imports comprise about twentyfive, and the principal of these are the oil seeds, which are year by year becoming a more important article of commerce for oil crushing. Taking them in the groups in which they naturally arrange themselves, rather than in the alphabetical order in which they are placed, they are as follows: Pungent and aromatic seeds, carraway, coriander, cumin, and aniseed to the extent of 13,000 cwts., and of the value of £22,•00. Dari, millet, and canary seeds, in all, 95,-000 cwt., worth about £26,000. Trefoil, lucern, clover, grass, and other pasture seeds. 262,452 cwts., valued at £601,712. Unenumerated gar den and field seeds, 26,847 cwts., valued at £31.817, besides carrot and onion seeds worth £12,000 more. Tares, lentils, and kidneybeans, 61,159 quarters, value £130,643. This is exclu-

sive of one million quarters of beans and p imported and classed under "corn" from ing to pay the 1s. per qr duty, while all to ther seeds come in free.

Lastly, we have the oil seeds, the most imtant as regards quantity and value, and wiwe may specifically enumerate from the offreturns of 1861, as we have done the otherse

We may here advert incidentally to the w of uniformity in the unit of entries, of whe have often complained, for we have all confusion of lbs., cwts., tons, bushels, quarters, instead of that simplicity and unife ity so essential for calculations and in draconclusions and summaries. The oil seeds ported in 1861, were:

			Valu
Mustard	.cwts.	23, 299	£25,%
Rape	. grs.	249,365	711,1
Poppy	٠ ۥ ٢٠	5,451	15,7
Flax	. "	24,160	65,2°
Lint	. "	1,136,110	3,042.8
Hemp	. "	10,571	25,0
Sesame	. "	2,122	6,8
Croton	. "	93	1,3
Cotton	. tons.	20,034	152,1
Unenumerated	d qrs.	32,305	92.3

Qrs. 1,460,447 £4,138,1

The sseds already enumerated, as co within the same range, we may perhaps flower roots, of which about £20,000 were imported, and plants, shrubs and to the value of £24,000.

But a very small portion of the imported are intended for sowing. The pasture gr some of the flax seed, a little of the m and canary seed may possibly be so emp. The garden seeds are all for cultivation much of the cotton seed imported is int for distribution abroad, in different new qu where cultivation has recently been enter

About 17,000 cwt. of clover and 23,000 ters of flax and rape seed went direct to Sc ports, 26,000 quarters of flax seed and cwt. of clover to the Irish ports. Hul Grimsby are the great ports of entry f continential seeds, more than half a million ters being received there—nearly equal amount which comes into London—while erpool stands third, the imports there about 250,000 quarters annually. New Bristol, Gloucester, and a few others a smaller amounts.

Now, whence do we derive our suppletese seeds? The aromatic seeds com Europe and Africa: the grass seeds from any and France, except a little Timoth North America; the garden seeds chien Holland, Belgium, France, and Hambur the oil seeds mostly from Russia and In though Egypt, Italy, and Prussia now increasing quantities. The pulse, lentiare principally from Egypt and Portugal Aromatic seeds and others are used for c

r confectionery, and medicinal purposes. The reat bulk of the oil seeds furnish besides sinters', burning, and other oils—oilcake for the food and manure, of which our imports e not so large as they formerly were, probably cause it is found that we can make a better ticle at home. The wretchedly foul condition wever, in which much of the seed is received nders it extremely difficult to make a palatable ke for cattle, much of it being refused by asts, owing to the quantity of earth and sand th which it is mixed.

Professor Voelcker, in his paper on the adulation of linseed cake, read before the Royal ricultural Society on Wednesday, drew atnion very prominently to this subject. owed that the admixture of foreign seeds with seed sometimes amounts to 70 per cent. of the lk; and some of these seeds are not only inious to the quality of the cake, but actually He had taken the trouble of separg from some samples the foreign seeds, and one he counted no less than twenty-nine difnt kinds of weed seeds, including the comn darnel and the corncockle, which often duce very injurious effects upon the animal em. In others the pungent wild-radish seed urred, and wild rape and charlock, or comı wild mustard. These are positively known e mjurious to cattle, but there are many ars in the ordinary linseed cake sold in the ket which impair the quality of the meat, gh not so injurious to the health of the rals, such as the seed of the gold of pleasure. th imparts a disagreeable taste to the meat. deep yellow color to the fat, the purging Indian rape-seed cake invariand others. contains a large amount of wild mustardwhich, from its pungency, is highly injuri-The Curcas purgans and other ionious seeds are materially detrimental to realth of cattle.

e prices of seeds imported range extremely according to the demand and supplies. laints are frequently made, and not witheason, of the quality of the field and garseeds imported—and this is a matter of importance in an individual and national of view.

asidering that we have 19,000 000 acres in ingdom under arable and garden culture. 7,000,000 acres in mendows and nastures. ed required annually is considerable. it should be good and to be depended upon imported from foreign sources is highly ary, and there should be some kind of stee that it is not old and valueless, or Much of this rests with the dealers and ien, who, by obtaining supplies only from table foreign houses, would attain for lves a reputation which could not be At least three-quarters of a million nt in foreign seeds required for sowing, failure in the vitality of any of these is a injury as well as a dishonourable fraud purchaser.

RICH LEAN JUICY MEAT—ITS PRO-DUCTION AND ADVANTAGES.

As practical farmers it must be confessed we have yet to learn how to carry out advantage-ously, in the daily pursuit of our profession, under the artificial systems of husbandry now practised, the natural system of fattening cattle, so as to be able at pleasure to increase the proportional quantity and quality or the lean part of our beef, mutton, aud pork-the portion that fetches the most money in the market. We can increase the proportion of fat to almost a fabulous amount; but that which procured for the "roast meat of Old England," with its rich "black gravy," a world-wide fame, in the days of our forefathers, we cannot pro-For such we must go to the wilds of Lochaber, Connemara, or Wales! There Nature can grow juicy lean meau, with its fine black gravy. True enough, we read many very nice plausible theories in the columns of agricultural journals relative to flesh forming substances: but when we enter the feeding stall at the homestead, and begin to examine tangibly our cattle preparing for the shambles, the beautiful theories thus taught us with so much analytical erudition are, unfortunately, nowhere to be found. For want of certain articulating membranes, or some contrivance to bind them together, the bubbles on the surface of the fair-flowing stream immediately burst. their elementary contents vanishing instanter into thin air. Disappointment is the common lot of fallen humanity; and, if we mistake not, the oracles of more than one Obese Experimental school are about to join those of the Delphic of old, the public palate having lost its But be this as it may, relish for oily fat. practical farmers have one consolation in plenty of customers for rich, juicy, lean meat, with the corresponding encouragement to grow it. Such being the position of the practical man, let us briefly examine from an economical point of view his professional duties in the manufacture of rich juicy chops and steaks for the million.

In the first place we have to turn our reader's attention to the fact that it requires a much less consumption of food (provided such food is of a proper quality) to make flesh on the lean portion of the meat, than it does to make the rough fat of the obese system that goes to the This arises from the large tallow chandler. per-centage of water which the former contains. especially when compared with the peculiar composition of the latter. Thus, according to the analyses of Brande and others, the lean of rich mutton may contain about 70 to 73 per cent. of water, and the lean of rich beef 74 to 78, so that 100 lbs. of the lean of rich mutton is composed of 70 lbs. to 73 lbs. of water, and from 27 to 30 lbs. of the solid materials of flesh; while the lean of rich beef contains 74 lbs. to 78 lbs. of water, and from 22 lbs. to 26 lbs. of solid matter. Now from these data it consequently follows, that if we can add 100 lbs. of rich lean mutton to the carcase weight of our fattening sheep, we only require from 27 lbs. to 30 lbs. of the solid flesh-forming matter to do so, or rather perhaps we should say, only 30 lbs. of the dry solid food is used up in the manufacture of 100 lbs. of rich, juicy, lean mutton; and 26 lbs. in the production of a like increase of a rich, juicy, lean beef. On the other hand, fat contains but a small per-centage of water; so that nearly the whole weight of the superfluous amount of fat now produced under the obese system of fattening is from the solid part of the food. Such is the contrast; and when we come to strike a pecuniary balance between the two systems, the difference in favour of the production of rich lean meat on the natural system will be found to exceed what some may at first sight imagine.

The above data, we have in the next place to observe, has chiefly reference to the flesh of young growing animals; the proportion of elementary substances, or of the proximate principles of the flesh, remaining nearly the same when the animal is slaughtered, as when it was put up to fatten for the shambles. practice, however, such data are often exceptionary; for after the ox or the sheep has attained maturity of growth, the weight of bone, muscular tissue, and other parts remain nearly stationary; so that when a full grown, but lean animal, is put up to fatten, the increase that takes place in the weight of the lean meat added during the process of fattening contains a larger proportion of water. In the case of fattening sheep, previously quoted, some thirty per cent. of solid matter of the food was used up in the formation of the albumen, fibrine, gelatine, osmazome, and the other solid substances composing the flesh. But in the case of the full grown sheep, the solid materials of the food used up, in forming the increase in the weight of the flesh, do not amount to so much-say, for the sake of illustration, from ten per cent. of this increase is water, including the blood, lymph, and juice of the flesh. In the case of the full grown lean ox, a corresponding difference is experienced in favour of the consumption and conversion of water, along with condiment, into rich juice, for the sham-In other words, increase of weight is comprised of the rich juice of the flesh-beef or mutton, as the case may be—with the corresponding increase that takes place in the blood and lymph, to preserve the normal equilibrium of the fluids.

The practical question, when comparatively viewed, lies between the manufacture of the rich juice of lean meat, and the manufacture of the tubfuls of superfluous rough fat, unfit for human food, that go from the butchers to the tallow chandler, with the advantages and disadvantages experienced under the two practices or systems now in operation of fattening.

In other words, we have in the about cattle. an illustration of the old question of "bly gravy versus white gravy," which engross so much of the attention of the agriculty mind towards the close of the last century, a during the early part of the present. fathers and grandfathers, for example, ku the difference between the two systems off tening in question, viz., the natural syste handed down to them by previous generation and the obese system of fattening on oilcate and other feeding materials of an abnorcharacter, that began to be practised and g erally adopted in their own times. period, a very erroneous notion prevailed n' tive to the dietic value of the fat of beefr mutton, for it was considered the most nut tive and valuable portion of the meat; inde this fallacious opinion was common fifty we Thus says a writer of the period (L rence): "In regard to the flesh of animals, its proper state for human food, I apprely we have long been in error, and the current fashion still runs strong for its continuan it is the presumption that fat is the most " able part of the carcass, and that a propen to the laying on of fat, is the most, or rat the only valuable property in cattle." supported, the obese system (" white grav "carried the bell" against its older rival (b) gravy); but now that public opinion is che ed as to the dietic value of fat, and that lean meat fetches twice the price of rough in the market, and requires less feeding terial to produce it, the old natural system fattening is again coming into favour, bec under it we can produce not only an increas the flesh or lean portion of our beef and mu for the shambles, but also at the same tin sufficiency of finely flavoured fat, mixed engrained with the lean: whereas the o system is diametrically opposed to the gro of flesh, or of an increase in the weight of meat, its tendency being calculated to proatrophy of muscle, with a predominant coarse, patchy fat, the consumption of fee materials required to produce a given am of carcass weight being often more than t that under the other or natural system,: ference of result which is easily explaine chemical grounds.

The difference between the natural sy of fattening cattle and the obese system is so great, as hardly to leave any chance t modern farmer but to adopt the former, practice of his ancestors, under such important age may suggest. No doubt the is not without its advantages also, in the of the rich manure it makes for the land, is certainly no little consolation to its cates, and we should regret to under-estits value one iota. But rich as the drop, of oilcake obese-fed animals may be, yet, placed in the scales with the rich, juicy

the natural system, they are found greatly anting in yielding ready-money profits to the mer. On the contrary, nothing could illuste more forcibly the penny-wise and-poundalish economy of the whole obese system, an the inestimable value its supporters put on its rich manure—its valuable flesh-form-relements being converted not into flesh (?), t into dung, to fertilise the land, in order to ow feeding material to produce enough fat the tallow chandler!

We have next to examine the feeding maters that supply the aliment which has been imilated or used up in the process of increasthe carcass weight of the animal when fated on the natural system, in order to ascern what they are, and how to supply them in food. In other words we have to solve the blem as to what the substances are that me the rich lean and fat of our fine beef or too, the rich juice-forming and fat-forming stances under the natural system of feeding

'he protein elements of flesh, as they have n called, including fibrine, albumen, and atine, that are used up in the above process ncreasing the carcase weight of the rich, y, lean meat in question, form but a very Il per-centage of the whole proximate prines thus utilized from the food. It is therehighly unscientific and illogical to designthe former (the protein elements) the fleshing materials of our cattle. As it is only natural practice of fattening, and its genprinciples, that we are discussing, it will nnecessary to quote the detailed analyses ich, juicy flesh, in order to show the actual centage of protein matter in juxtaposition Indeed we have no trustthe others. thy analyses to quote. It has already been yn that in meat of an ordinary description t three-fourths of the whole is water, and n we add to this that only about the half wo thirds of the solid materials of the flesh otein, the reader will perceive that they ine, albumen, and gelatine) only form about eighta to one-tifth of the whole weight; we may observe, the greater the quantity worse the argument. Indeed it would be h more correct to designate the osmazomic, tine and kreatinine, the lactic acid, phosic acid, inosinic acid, the lactate and phose of potasn, the chloride of potassium, and r salts, the flesh-forming materials, as the ation of flesh is entirely dependent upon, ainly due to, their presence. Thus (quotthe authority of Pereira and Majendie), scular flesh, in which gelatine, albumen, ibrine are combined, according to the laws ganic Nature, and where they are associwith other matters, such as fats, salts, suffices, even in a very small quantity, for lete and prolonged nutrition." "Dogs olely for 120 days on raw meat from is heads, preserved their health and weight during this period, the daily consumption never exceeding 300 grammes (= 4,630} grains troy), and often being less than this But 1,000 grammes (= 15,434 quantity. grains troy) of isolated fibrine, with the addition of some hundreds of grammes of gelatine and albumen, were insufficient to support life." "What then," exclaums Majendie, "is the peculiar principle which renders meat so perfect an aliment? Is it the odorous and sapid matter that has this function, as seems probable? Do the saits, the trace of iron, the fatty matters, and the lactic acid contribute to the nutritive effect, notwithstanding they constitute so minute a portion of meat ?" (Pereira's Treatise on Food and Diet). The opinion of this able chemist is thus plainly stated, that the peculiar function of the odorous and sapid properties of the meat is that which renders the whole alimentary. They (the odorous and sapid properties) are the flesh-forming materials, and this conclusion he deduces from the experiments made at the instance of the French Government, under the "Gelatine Commission." When dogs were fed exclusively on mutton, lard, and fatty matters, large quantities of fat were secreted, so that the animals increased the quantity of fat in their bodies, but rapidly experienced atrophy of muscle, &c., &c., so The dogs, in the above that they soon died. experiment, that were fed on isolated fibrine, albumen, and gelatine, lost both their lean and fat before they ceased to exist, thus leaving the practical conclusion manifest to the high alimentary and flesh-forming value of the condimental properties of food; while it is equally conclusive that the protein elements alone are not flesh-forming.

As it is with carniverous animals so it is with herbivorous animals. If the flesh-forming elements of the food of the for ner are the odorous and sapid properties of the animal food they consume, so the flesh forming elements of the food of the latter are the odorous and sapid properties of the vegetable food they consume. If we wish to produce heavy weights of coarse fat meat, comparatively unfit for human food, we have only to turn our sheep and neat cattle into the coarse, washy, insipid herbage of a water-meadow in summer, or to put them upon cake, hay, and turnips in winter, to obtain the solution of our problem; but if we, on the other hand, wish heavy weights of rich, juicy meat, with a sufficiency of finely flavoured fat, so as to render the whole carcass in the highest degree nourishing and economical, we must then give our fattening cattle food rich in those odorous and sapid properties of which such meat is formed. And more than this; for we must not only give feeding materials supplying those odorous and sapid properties natural to the chemical senses (smell and taste) of our cattle, according to their respective requirements, but such feeding materials must be free from noxious matter, or even an excess of albuminous or oleaginous principles. In short, the food for our cattle should be not only normal in quality, but also in quantity; for it is now an authenticated fact that the normal flow of the gastric and other secretions of the alimentary canal will only digest the normal quantity of food required; consequently, that when animals are induced to eat larger quantities than natural, as under the obese system of feeding, gastro digestion is imperfect, and so are all other processes, digestive, alimentary, and excretory, in the animal economy. All the organs require a regular supply of their natural stimuli, including heat, light, &c., in order to enable them to perform their respective functions, and this is what they should have with the greatest impartiality to every function.

It is an easy matter thus to commit to paper a rough outline of the general dietic principles exemplified in the natural dietary of our cattle, when they are left to select their own food in rich pastures, but not such an easy affair to carry out those principles under the artificial system of husbandry which farmers must now The work, however, must everywhere pursue. be done, as it is the only one that will justify or remunerate the investment of capital, for the feeding of cattle is in reality a natural process, beyond our control as practical farmers, and therefore in its performance the Laws of Nature must be duly respected by all who propose supplying our butchers with beef and mutton rich in those odorous and sapid properties that give to beef, mutton, and pork a high money value in the estimation of the public. Thus, if the rich, juicy, lean meat fetch from eightpence to a shilling per pound, and the rough fat that is pared off and sent to the tallow chandler only fourpence per pound, and if, in the production of the latter, twice the quantity of solid food has been consumed by the cattle in the process of fattening, then the pecuniary difference in favour of the former is something considerable, for the coarse fat of the obese system costs the farmer twice as much as the rich juicy meat produced by the natural practice of feeding, while he only gets something like half the price for it (obese fat.)

In the olden time, when in door winter fattening was the exception, and out-door summer fattening the rule, certain grounds were set apart for preparing cattle for the shambles. because experience had taught our ancestors that the herbage of such grounds was better adapted for fattening than the herbage of other grounds; and to this day such grounds are well known to practical men. Th ey are not confined to our low lying rich grazing meadows, but are to be found rather on elevated pastures, amongst the highland glens, south downs, and on some very rich corn bearing lands, when subject to the plough. Now it is a well-known fact that those grounds that produce the greatest quantity of the finest quality of beef and mutton are not those that produce the largest

quantity of grass per acre. The natural and practical rule, on the contrary, is that the finer the quality of the herbage, and the richer it is of the odorous and sapid qualities required by the fattening animals, the less the quantity they consume to produce a given amount of carcase weight.

All who have paid attention to the practical data at issue, must therefore be satisfied with the soundness of the general principles advo-No doubt the olden time was not with. out its examples of the twofold kind of obese fattening, of which sheep-rotting meadows, irrigated pastures, and all rapidly-grown etiolated herbage may be quoted as illustrations; but in all such cases the quantity of herbage consumed was, as it now is, immensely large, while the quality of the beef and mutton produced was and is coarse in the extreme, being devoid of the requisite supply of those odorous and sapid properties upon which their natural value de pends. Thus, when the meat was deprived of its natural condiment, Majendi's dogs consumed four times the quantity which those did that were otherwise fed; so that the objection thus raised against the principles advocated tun out to be important practical data in their favour the moment they are examined and see in their true practical light.

Individually considered, the odorous and sapid properties or condimental principles required by cattle in their daily food must, from the peculiar function they appear to serve in the animal economy, be estimated at a very high figure—a fact which of itself ought to en courage the investigation of the subject, as a what those condimental substances chemically and medically are, which different kinds (animals and qualities of feeding material re That they are of a very diversified character, and that animals require change when fed under artificial systems as they a when fed under the natural system, or whe they are allowed to select for themselves, a pears reasonable to conclude. When Natu. furnishes so many practical lessons in even province of the kingdom, is it not the bound. duty of farmers to profit by her successful er ample ?—W. B. Farmer's Magazine.

MEANS BY WHICH THE ACTION O. AUXILIARY MANURES CAN BE KED DERED MORE IMMEDIATE.

The speedy action of auxiliary matures a question of very considerable important all times to the cultivators of the soil, it is one of more special interest in such seasons the present, when the means to procumanures have been much curtailed by a smallness of returns derived from the sale the preceding crop. Wherever it is possible therefore, to restrict the outlay in the approach of manures this spring, it is most to

sirable to do so; but at the same time it is especially necessary to so regulate the quantines as to secure an abundant produce. It should be borne in mind, however, that whatever tends to render manures more immediately available to the crop to which they are applied reduces in a corresponding ratio their fertilising action on succeeding crops; and consequently it becomes necessary to apply them more frequently during the rotation. This specially holds good where the soil readily gives up the constituent elements of plants, and when the manures used are more or less adapted for the particular crop to which they were applied.

With the view of guiding those who purpose to reduce the outlay in procuring manures by purchasing cheaper fertilisers, and by rendering these and the other manures formerly largely used more immediately available to the crops to which they are to be applied, the following remarks are submitted. As a rule, it is generally advisable to use a mixture of fertilisers in preference to one substance singly, and to mix these some time previous to their application to the soil. The action of the mixture is usually to produce a more uniform and healthy growth of the crop, which, as a consequence, renders it more productive than when only one auxiliary manure s applied.

For general purposes, Peruvian guano is the most efficient fertiliser, and formerly was buch employed for the manuring of grass, oot, and bulbous crops; but owing to its elatively higher price, compared with the price of other fertilisers, it has been replaced n many farms in whole or in part by cheaper panures, such as phosphatic guanos, phosphoferuvian, and superphosphates. The crops poduced from these cheaper fertilisers have een equally, and in some instances even pore productive than when Peruvian guano The demand for these lone was used. anures has rapidly increased. The majority If those farmers who still give a preference to eruvian guano could with advantage substitte in part at least other fertilizers, such as mixture of two or more of those most geneally used. To obtain the nitrogenous eleent, which is the most valuable constituent Peruvian guano, nitrate of soda and sulhate of ammonia can be substituted with Ivantage; to furnish phosphoric acid, phoshatic guanos, superphosphates, and ground ones are all available, and contain a larger er centage of phosphoric acid than Peruvian lano. The kinds of manures and the proprtions to mix should be mainly determined the condition of the soil, the character of e crop to be grown, and the relative prices which the fertilisers can be purchased. he constituents of the various fertilizers in neral use, with the prices at which they are

sold, may afterwards be given; but at present attention is directed to the best means of rendering the constituents of manures more immediately available to the crops to which they are applied, by the use of sulphuric acid and by fermentation. By these means the action of the manures will be rendered more immediate, which will admit of smaller quantities being applied to the soil than were formerly used, and with the same results as regards the produce of the crops to which they are applied—whether to grass lands, corn, root, or bulbous crops.

The action of all auxiliary manuresguanos, ground bones, &c .- can be increased by a judicious treatment of them previous to their application to the land. The fertilizing action of Peruvian guano, and of all kinds of guano, can be rendered more immediate by the addition of sulphuric acid to one ton of The acid should be regulally added, and the heap turned over, so that the wnole of the guano may come in contact with the acid. Any free ammonia in the guano will be changed into sulphate of ammonia, and a portion of the phosphates present rendered soluble, preparatory to the application of guano to the soil. Ground bones and bonedust may also be treated with a quantity of sulphuric acid. As sulphuric acid rapidly corrodes iron, wooden shovels and other implements formed of wood should be used in mixing the acid with the manurial substances. Fermentation will also reduce the bones to a soft mass. By the adding of water or liquid manure, fermentation will be induced, which, by still further reducing the bones, will greatly facilitate their immediate manurial action. As the water or liquid manure or stale urine, is added, the heap should be turned over several times, and the surface of the heap afterwards compressed by a shovel -a covering of sawdust, gypsum, or mould being afterwards applied to retain any ammonia which may be expelled during the process of fermentation. The same means may be adopted with guano heaps treated with acid. Where a mixture of fertilizers is to be prepared, each manure may be treated separately, or the whole may be mixed previous to the adding of the acid and water. Those who use guano and ground bones mixed for the potato and turnip crops can with advantage mix them several weeks previous to the period of application.

Nitrate of soda being relatively cheaper than Peruvian guano, a manure can be prepared—by mixing nitrate, ground bones, and phosphatic guano—which will be manurially equal to Peruvian guano, and the price per ton considerably less.

Common salt may be used in those cases where the mixtures are intended for particular crops, but especially where the situation is inland. Salt is very essential for the growth of mangel, and its presence generally proves beneficial to all cereals and the leguminus crops. The quantity should in ro case, however, exceed four or five cwts. per acre; and half this quantity will generally prove sufficient for all crops, with the exception of mangel, for which the maximum quantity of five cwts. may be allowed, if the land is not on the sea coast.

Sulphate of soda is also a very powerful fertiliser for several of the cultivated plants, more particularly the potato. It is, however, very seldom employed as a fertiliser, and those who experiment with it would confer a favour on agriculturists generally were they to report the result of their experiments. Sulphate of magnesia also acts powerfully on the growth of the potato as well as on several of the other cultivated plants. When it is used along with sulphate of soda, equal weights of which may be added to the other manures in forming a compost. Two to two and a half cwts. per acre of each sulphate is sufficient.

By examining the constituents of plants, particularly the ashes, a knowledge can be obtained of the manures which will act most beneficially on the growth of the various cultivated crops.—North British Agriculturist.

TRANSPIANTING TOBACCO PLANTS.

Many of those to whom we have distributed tobacco seed, have expressed doubts that the seed in one paper should be sufficient to plant an acre of ground; but when they learned that each paper contained ten thousand seeds which were to be first planted in a seed bed, and then transplanted to the distance of two feet apart, their doubts were at an end. Although no one of our readers will be likely to raise tobacco to that extent, yet the process is the same for a larger or smaller quantity, and accordingly the following hints on transplanting are given:—

Presuming that the seed distributed to our readers has been planted in a het-bed, or in boxes of earth placed in-doors, and that it is progressing towards the state at which it should be transplanted, these rules are to be observed. Prepare the plat where you are to transplant it, by manuring the ground well, and working it fine and deep, and as soon as the seedlings are the size of cabbage plants, that is, as soon as they have four leaves and are four to six inches high, they are ready for transplanting. This is done in precisely the same way as with cabbages, and requires no more skill. They should be placed two feet apart, and the operation should be done in damp weather or immediately after a rain. If hot weather occurs after they are planted out, the plants must be protected by a light

covering of paper, dry leaves, or straw; and they should not be allowed to suffer from moisture. Dead or weak plants must be no moved, and replaced by healthy ones, hence a supply should be kept in the hot-bed und this difficulty is past.—Maine Farmer.

SEED, SOIL, AND CULTURE OF SOE GHUM

The committee appointed by the Ohio Sorgham Convention, to report on the above topic made their report as follows:

"Your Committee on seed, soil, and Cultivation, report that in their view the best variety of seed for all purposes, is the Sorghum, of Chinese canc, especially for strup. For grate lation, they recommend the Imphee called the see-a-na, which they think identical with the which is now mis-called Otaheitan. As a very carly variety they propose the kind of Imphealled Nee-a-za-na, though this last variety is not generally desirable.

"Soil—Good wheat land is considered the best oil for this cane. The particular committee of this soil should be sandy, inclined limestone, with a sufficiency of clay to hold to soil tolerably compact.

"Cultivation—The soil should be work deep, to oroughly pulverised and rolled for Plant in check-rows, the same distance apart corn. Cultivate flat and thoroughly, till the plants are three feet high, not afterward Plant as early as practicable."

THE LAWS OF CULTURE OF THE LAND ACCORDING TO LIEBIG.

(Concluded from page 138.)

If an average crop of corn takes from the per hectare 32 kilos. of potash and 20 kilos. phosphoric acid, a crop half as large agwould require potash and phosphoric acid proportion: that is to say, 48 kilos of their and 30 kilos. of the second; and it is the sa with other nutritive principles. Some nutril principles are found in the soil in such qua ties, that there is no fear of their being. Such are iron, lime and magne hansted. These elements nearly all belong to the mine substances which compose the arable bed of. earth, and they only need to be disolved to: der them available to the plants. The melk ing of the soil with stable dung, and man rich in carbon and azote, contributes powers to dissolve these principles. Other aliment plants, namely potash and phosphate, are for only in very limited quantities in the earth, they will soon be exhausted in the soil wh they are restored to it, by the use of other a ures from those above named.

All plants draw from the air a part of a nourishment, and strictly speaking, there are crops which sustain the soil, still less enrice Clover is reckoned amongst those crops that improve the soil, yet it is difficult safely to repeat it every sixth year in the same land. cannot obtain two good crops of vetches successively on the same held. Plants are sometimes sown for the purpose of burying them green when they are in full vegetation; but the soil does not become the richer for it; at most, the nutritive principles contained in the soil become by this means more soluble. The soil is only enriched by the substances which plants draw from the nir, and these substances do not con tribute in any respect to the fertility: they only help to hasten the dissolution of the solid substances which are found in the earth, and which serve for the nourishment of plants.

The fodder plants do not leave the soil richer than before. Even if they return to the earth as dang, they do but restore to that earth under another form its constituent principles. The trefoils offer to agriculture an immense advantage: their roots run down to such a depth that they seek their nourishment in the subsoil, and the manure they produce serves afterwards to earch the upper bed of the soil; they are a means of putting at the disposal of the cereals the fertilizing principles contained in the

tubsoil.

The fertility of a farm cannot be increased by the culture of fodder plants alone. The culture of these fodder plants has also its natural limits; the moment that the trefoils have exhausted the

Subsoil they no longer succeed.

Every cultivator sells with his produce, under he form of grain and cattle, a part of the priniples necessary for the nourishment of his and; and if he does not in another way restore to the earth these principles sold by him, wheher by the use of hones or ashes, or by purchaslar oilcake, or disposes of hay produce! by attend meadows, then necessarily the land must become gradually poorer, until it will be wholly approductive.

This restoring to the land what has been aken from it, does not in general take place ith us in Germany. We not only sell to the oreigner corn and cattle, but England has aleady carried off from the soil of Germany, to mport them at home, millions of quintals (cwts.) f bones. The excrements of men, which run hto, the rivers and go from thence into the sea, casion another loss at least as great. Taking or granted that the excrements of a million hen living in the towns are lost; admitting other that excrements of one man suffice to roduce 31 kil. of grain, it follows that this illion of men anuually cause the toss of the eans of producing 3,500,000 kilos. of grain, nd in twenty-five years we find the enormous um of 87,000,000 quinials of grain lost to the ountry.

In the middle ages, before the thirty years' ciples ser ar, Germany fed almost as numerous a popution with the triennial system as it does at the exent time. The result was, the production Fresh

was no longer in proportion to the population. They introduced the system of alternate culture, of roots, fodder plants, and trefoil. The production increased in an astonishing manner. But now they already speak of exhausted fields, worn out by the growth of clover; and intelligent farmers assert that the return of the crops is gradually diminishing. Would it be possible for us to supply the wants of the population now with the triennual system?

The action of manures is often very capricious, but only in appearance. If a manure is not officacious, the cause is in the ground. If we give to a piece of ground phosphorous, when it requires potash, no effects will be produced; and, on the other hand, if I give potash to land which requires phosphate, I shall do no good. There must exist a certain analogy between the different elements necessary to the plant, and it is when this analogy exists that the elements of the nutition of plants exert their whole action. Stable dung, the normal manure, does not produce everywhere the same results. In one soil it raises the productions one-tenth, whilst in another it increases it one-third—a proof that it is not the dung alone which produces the crops, but that it acts in concert with the earth and the nutritive substances of the plants it contains. Different opinions have been given upon the manner of treating dung. Some advise taking it directly from the stable to the fields; others advise that it should be left to rot in a pit. Eve-ything depends upon the manner in which we employ the dung, and the nature of the soil with which we have to do: there is not in agriculture one good absolute rule; everything depends upon circumstances.

Manure acts in two ways—by the principles that it contains, which serve for the nourishment of plants, and by its chemical and physical action; that is to say, by its influence, by means of the carbon and ammonia which it contains, upon the decomposition of the nutritive substances that are found in the soil, and by the raising of temperature which it causes during its putrefaction.

The insoluble substances in dungs, which serve for the nourishment of plants, do not escape by fermentation; they are found as well in decomposed dung as in fresh. In decomposed dung they are rendered more free, because in a more soluble state, and this is why decomposed dung operates more actively than fresh. By fermentation there escapes from dung a certain quantity of carbonic acid and ammonia. Whoever then wishes to obtain from dung all the physical and chemical action that it can produce, ought to carry it to the fields before it has fermented.

In clay the temperature is raised by the fermentation of dung; clay is rich in soluble principles serving for the nourishment of plants; for these reasons the use of un ermented dung is advisable.

Fresh dung is not so suitable to sand, which

contains but very small quantities of the substances to be decomposed, and in which the raising of the temperature is not necessary. In sand, therefore decomposed dung suits better, and it lasts a longer time in it.

The best manner of using dung would be to

make a compost of it.

If we leave the dung spread upon a clay soil, the only inconvenience which results is that it does not warm the land. Upon a flinty soil there is some risk that a part of the fertilizing principles may be carried down by the waters into the subsoil.

The whole art of the farmer is reduced to setting in action the principles serving for the nourishment of plants which are found in the soil; in manufacturing from them grain, meal, &c., and in taking care that there should be restored to the earth, by a sufficient manuring, the solid principles that have been taken from it.

It is not with dung only that the farmer makes his produce. Dung only restores to the earth-the fixed elementary principles which have been taken from it. There is a kind of circulation of the elementary principles which have been taken from it. There is a kind of circulation of the elementary principles of the plants that are found in the soil: they are changed into plants and cattle: the farmer sells especially the atmosperic principles; the solid principles that he sells at the same time must be replaced by the purchase of bones, ashes, &c., if he does not wish to impoverish his fields.

The new truths contained in the theory of Liebig are:

- 1. The principle that crops are in accordance with the eight morganic and solid elementary substances of plants, which are found in the earth in a state of dissolution.
- 2. That the atmospheric principles, ammonia and carbonic acid, are not really less necessary to plants than the others, but that they are furnished in sufficient quantity by the air, when the inorganic principles exist in sufficient quantity.
- 3. The combination of carbonic acid and azote with the dung has for its principal results the dissolution of the nutritive substances of the plants which are in the soil, and the raising of the temperature.
- 4. The faculty which arable soil possesses of absorbing the nutritive principles of plants.
- 5. The manner in which plants draw their nourishment from the earth, by the cells, which are found at the extremity of the radicles.

One of the greatest merits of Liebig was that of having scientifically proved the injury that is done to agriculture by the loss of the excrements of the inhabitants of towns, and the damage sustained by a country in the exportation of grain and bones.

ADAM MULLER.

Agricultural Intelligence,

EIGHTEENTH EXHIBITION.

OF THE PROVINCIAL AGRICULTURAL ASSOCIATION, TO BE KELD AT KINGSTON ON MONDAY, TURE-DAY, WEDNESDAY, THUR DAY, AND FRIDAT, SEPTEMBER 21, 22, 23, 24, & 25, 1863,

RULES AND REGULATIONS.

MEMBERSHIP.

1. The members of the Agricultural Societies of the several Townships within the county or Electoral Division, or United Counties, wherein the Annual Exhibition may be held and the members of the County or Electoral Division Society, shall be also members of the Association for that year, and have members of the Association for that year, and have members of the said Townships, or the Society of the said County or Electoral Division a United Counties, shall devote their whole fund for the year, including the Government Grant in aid of the Association, and shall pay overthe same, accompanied with a list of the members each such Society, to the Treasurer of the Associa ion two weeks previous to the Exhibition

2 The members of the Board of Agriculture and of the Board of Arts and Manufactures, the Presi ents and Vice-Presidents of all lawfull organized County Agricultural Societies, and all Horti-ultural Societies, are members of the Association for Upper Canada, ex-officio. The payment of -1 and upwards constitutes a personal member of the Association for one year; as \$10 for life, when given for that specific object and not as a contribution to the local funds.

3 Members can enter articles for competition every department of the Exhibition, at at time previous to the dates below mentione and all who become members previous to one the Saturday preceding the show week will a furnished with tickets admitting them to the grounds during the whole time of the showithout additional charge.

ENTRIES.

4 No one but a member shall be allowed compete for prizes except in class 44 section 11 to 16 or class 47, and class 54

5. All entries must be made on printed for which may be obtained of the Secretaries Agricu tural Societies, or of Mechanics' latutes, free of charge. These forms are to filled up and signed by the exhibitor, enclosis a dollar for membership, and sent to the Sectory of the Association, Board of Agriculta Toronto, previous to, or on the following natidates:—

6. Morses, Cattle, Sheep, Swine, Poultry Entries in these classes must be made by warding the entry form, as above mention filled up, and member's subscription enclosing or before Saturday, August 15th, five we preceiving the show.

7. In the classes of Blood Horses and p bred cattle, full pedigrees, properly certimust accompany the entry. No animals will be allowed to compete as pure bred, unless they possess regular Stud or Herd Book pedigrees, or satisfactory evidence be produced that they are directly descended from such stock. In the class of Durham cattle particularly, no animal will be entered for competition, unless the pedigree of the same be first inserted in the English or American Herd Book, or in the Upper Canada Stock Register, kept at the office of the Board of Agricul ure.

8. Grain, Field Roots, and other Farm Products, Agricultural Implements, Machinery, and Manufactures generally, must be en ered previous to or on Saturday, August 29th, three

weeks preceding the show.

9. Horticultural Products, Ladies' Work, the Fine Arts, &c., may be entered up to Saturday. September 12th, one clear week preceding the show.

- 10. Exhibitors are particularly requested to take notice that it is absolutely requisite that the entries be made at the dates above mentioned, in order to afford sufficient time to examine the entry papers, and to correspond with parties, where necessary, for the correction of errors and omissions.
- 11. In the live stock classes, the entry must in every instance be made in the name of the pona fide owner; and unless his rule be observed, no premium will be awarded, or if hwarded will be with-held.

12. In all the other classes, entries must be made in the names of the producers or manu-

acturers only.

13. In the Agricultural and Horticultural depertment the competition is open to exhibitors from any part of the world, with the exception of some classes of fruit.

14. In the Arts and Manufacturers department, no article can be entered for competition inless it be the growth, product, or manufacture of Canada; and no money premium will be awarded except in accordance with this rule; titices of foreign manufacture, however, may be entered for exhibition only, and will be eported upon by the judges, according to their terits, or certificates awarded them, if deserving. Manufacturers are requested to furnish with their articles exhibited, the quantity they an produce, or supply, and the price, for the aformation of he Judges; whose decisi in will be based on the combination of quality, style, and price, and the adaptation of the article to be purpose or purposes for which it is attenued.

15. No person shall be allowed to enter for shibition more than one specimen in may etion of a cass, unless the additional article of a distinct named variety, or pattern, from the first. This rule not to apply to animals, it to apply to all kinds of grain, vegetable oducts, fruit, manufactured articles, &c., in hich each a ditional specimen would necestily be precisely similar to the first.

16. Un the entry of each animal or article, a

card will be furnished the exhibitor specifying the class, the section, and the number of the entry, which card must remain attached to such animal or article during the exhibition.

TRANSPORT OF ARTICLES, PLACING THEM OM EXHIBITION, AND CHARGE OF THEM WHILE THE-R.

17. All articles for exhibition, must be on the grounds on Monday, September 21st, except live stock, which must be there not later than Tuesday 22nd, at noon. Exhibitors of machinery and other heavy articles, are requested to have them on the grounds as far as possible during the week preceding the show.

18. Exhibitors must provide for the delivery of their articles upon the show ground. The Association cannot, in any case, make provision for their transportation, or be subjected to any expense therefor, either in their delivery at, or return from the grounds; all the expenses connected therewith must be provided for by

the Exhibitors themselves.

- 19. Articles not accompanied by their owners may be addressed to the care of the Superintendent of the exhibition, who will receive them on their being delivered at the grounds, but in no case will such articles be brought on the grounds and placed on exhibition, except by and at the expense of the owners or their authorised agents.
- 20. Exhibitors, on arriving with their articles will apply to the superin endent of the grounds, who will be stationed within the entry gate, and will inform them where the articles are to be placed.

2: Exhibitors will, at all times, give the necessary personal attention to whatever they may have on exhibition, and at the close of the show take entire charge of the same.

22. No articles or stock exhibited will be allowed to be removed rom the grounds, till the close of the exhibition, upon the delivery of the President's address, on Friday afternoon, under the penalty of losing the premiums

23. While the Directors will take every possible precaution, under the circumstances, to ensure the safety of articles sent to the exhibition, yet they wish it to be dis inctly understood that the owners themselves mus take the risk of exhibiting them; and that should any article be accidentally injured, lost or stolen, the Directors will give all the assistance in their power towards the recovery of the same, but will not make any payment for the value thereof.

STEAMBOATS, RAILROADS, CUSTOMS.

- 24. The Association will make arrangements with Steamboat and Railroad proprietors for carrying articles and passengers at reduced rates.
- 25. Arrangements will be made with the Customs department for the free entry of articles for competition.

ADMISSION TO THE GROUNDS.

26. Tickets from the Secretary's Office will be furnished each person becoming a member previous to or on Saturday, September 19th, which will admit himself only, free to every department of the exhibition, during the Show. Life members admitted free throughout the Exhibition.

27. No member's tickets will be issued after the above last mentioned Saturday evening, but those issued up to that time will be good till the close of the show.

28. Necessary attendants upon stock and articles belonging to exhibitors, will be furnished with admission tickets with their names; written upon them, which ticket will be good at the Exubitor's Gate only, during the show.

26 The admission fees to non-members, on Tuesday and wednesday, will be half a-ollar, and on Thursday and Friday, a quarter dollar, each time of entering through the gates.

3: Tickets of admission to those who are not members, will be issued on and after Tuesday morning, at 25 cents each,—two such tickets to be given up at the ga es each time of admission, on Tuesday and Wednesday, and one such ticket on Thursday and Friday, in accordance with the above rates. Children under fourteen years of age, half price Carziages to pay one dollar each admission; each occupant, except the driver, to be also provided with the usual admission ticket. Horsemen half-a-dol.ar.

JUDGES AND THAIR DUTIES.

31 The judges will be appointed by the council of the Association previous to the Exhibition, and will receive a circular informing them of the fact and inviting them to act

32. The judges are invited to report themselves at the Secretary's office, presenting their circu ar of appointment, immediately on their

arrival at the grounds.

33. The judges will meet, at the committee room on the grounds, on Tuesday, September 22nd at 1 · o clock, A M., to make arrangements for entering upon their duties, and will then be furnished with the committee books containing the numbers of the entries in each class.

34. No person shall act as a judge in any class in which he may be an exhibitor.

35. In addition to the stated premiums offered for articles enumerated in the list, the judges will have the power to award discretionary premiums for such articles, not enumerated, as they may consider worthy, and the Directors will determine the amount of premium.

36. In the Fine Arts and Mechanical Department, Diplomas will be awarded—in addition to the money prizes—to any specimen evincing great skill in its production, or deemed otherwise worthy of such a distinction, on its being recommended by the Judges and approved of by the Committee to whom all such matters shall be referred.

37. In the absence of competition in any of the Classes, or if the Stock of articles exhibited be of inferior quality, the Judges are instructed to award only such premums as they think the articles deserving of. They will exercise their discretion as to whether they will award the

first, second, or any premium. 38. Each award must be written in a plain,

careful manner, on the blank page opposite the number of the entry; and the reasons for the award should be stated when convenient

39 No person will be allowed to interface with the judges while in the discharge of their duties. Exhibitors so interfering will furful their rights to any premium to which they might otherwise be entitled.

DELEGATES, THE ARRUAL MEETING, &C.

40. Delegates and members of the Press are requested and expected to report themselves at the Secretary's office immediately on their arrival.

41. The Annual Meeting of the Directors of the Association will take place on the ground on Friday morning, Sept. 25th, at 10 o'clock.

42. Delegates from County Societies desiring to obtain a portion of the Canada Company Prize wheat for their Counties, will please apply to the Secretary for it before leaving the exhibition, and take it with them from them.

THE GENERAL SUPERINTENDENT.

43. The General Superintendent will have the entire supervision of the grounds and the arrangements of the exhibition. He will have an office upon the ground, where all person having inquiries to make in relation to these rangements will apply

PAYING THE PREMIUMS.

44. The Treasurer will be prepared to commence paying the premiums on raturday, Sep 20th, at 9 a. m., and parties who shall have prizes awar, ed them are particularly request to apply for them before seaving Kingston, the leave a written order with some person to be ceive them, stating the articles for which prise the claimes.

45. Persons entitled to cash premiums mapply for them at the Secretary's office, will give Orders on the Treasurer for t

amoun

46. These orders must be endorsed, as the will be payable to order, not to beurer, and a presentation to the Treasurer, properly a dorsed, will be paid either in cash or by cheapon the Bank.

47 Orders for premiums not applied for Saturday as above will be given by the Satury, and the amount forwarded by the Taurer, on rece pt of proper instructions.

MISCELLANEOUS.

48. Provender will be provided by the Acia ion for live stock at cost price For instance Exhibitors will apply to the Supertendent of the grain and fodder department his office.

49. Auctioncers will be on the ground the premiums are announced, for the pure of selling any animal or article which owner may wish to dispose of, and every fact will be afforded for the transaction of busis

50. In case the Directors shall require, particular information in reference to anior articles taking first prizes, the comparable expected to transmit it when requests

PROGRAMME FOR THE WEEK.

1 Monday, Sept. 21st, will be devoted to the final receiving of articles for exhibition, and their propor arrangement. None but officers and members of the Association, ju ges, exhibitors, and necessary attendants will be admitted.

2. Tuesday, 22nd The judges will meet in the Committee Room at 1 : A. M., and will commence their duties as soon as possible afterwards. As soon as they have made their awards, they will report to the Secretary, and will then be furnished with the prize tickets, which they are requested to place on the proper articles before dispersing. Non-members admitted this day on payment of 5 : cents each time.

3. Wednesday, 23rd. The judges of the various classes will complete their awards, and will place all of the prize tickets if possible. Almission this day the same as yesterday.

4. Thousday, 24th. All the remaining prize tickets not yet distributed by the judges will be placed upon the proper articles this morning, before 9 o'clock, if possible. The public will be admitted this day on payment of 25 cents by each person, each time of entering.

- 5. Friday, 25th. The annual meeting of the Directors of the Association will take place at 10 a.m., in the Committee Room. The President will deliver the Annual Address at 'P.m., after which the Exhibition will be considered officially closed, and exhibitors may commence to take away their property. A mission to-day the same as yesterday
- 6. SATUPDAY, 26th The Treasurer will comcence paying the premiums at 9. A M. Exibitors will remove all their property from the grounds and building. The gates will be ept closed as ong as necessary, an none will radmitted except those who can show that they have business to attend to.

PRIZE LIST.

AGRICULTURAL DERARTMENT.

TE STOCK, AGRICULTURAL AND HORTICULTURAL PRODUCTS, IMPLEMENTS, &C.

Competition open to all the world, except as specified.)

Medals—In all cases the winner of a first rize of \$40 will be entitled to the Association's old Medal, value \$10, instead, if he prefer it; and the winner of the first prize of 5.0, or upards will be entitled to the Silver Medal, at 10, if he prefer it, with the difference in oney.

HORSES.

	CLASS I -BLOOD HORSES.			
t.	•	2.	C.	
Best !	thorough-bred stallion	40	00	
2d .				
3d	do			

			æ
2.	Best 3 years old stallion	22	00
	2d do	14	00
	3d do	7	00
3.	Best 2 years old stailion	14	
	2d do	1_	10
	Best yearling co't	8	00
4.	2d do		00
	3d do		00
5.	Best thorough-bred stallion of any	•	•
-	age, Dip	lon	ne.
6.	age,	18	00
	2d do	11	00
_	3d do		00
7	Best 2 years old fi ly	14	-
	2d do	10	(0)
8	Bust yearling filly.	_	00
G	21 do		00
	3d do	4	- 7
9.	Best mare and foul, or evidence that		
	the foal has been lost	22	00
	2d do	14	- 7
	3d do	6	00
	Extra entries.		
I	Pedigree to be produced in this class.		
	CLASS II AGRICULTURAL HORSES.		
1	Best stallion for agricultural pur-		
1.	poses	ΔO	00
	2d do		00
	3d do	12	00
2.	Best 3 years old stallion	22	0Ò
	2d do	14	
_	3d do	7	
3.	Best 2 years old stallion	14	-
	2d do 3d do	-	(0
4.			00
-3.	2d do	6	_
	3d do	4	
5,	Best agricultural stallion any age, Di	plo	ma
6.	Best 3 years ol i fi ly		10
	2d do		00
7	Best 2 year old filly	7.4	-
١.	2d do		60
	3d do	4	
8.			00
	21 do	6	"0
	3d do	4	00
9.	Best brood mare and foal, or evidence		:.
	that the foal has been lost		00
	21 do 3d do		00
۱٥.		U	W
•	horses	2:)	00
	2d do		00
	3d do	10	00
14.	Extra en ries.	•	
	CLASS IIIROAD OR CARHIAGE HORSES	٠.	
1.		-	ŧ
٤.	years old and upwards	40	.00
	2d do		60
	3d do	12	00
2.			00
	2d do		
	3d do	. 7	UØ

_		
3.	Best do. 2 years old 14 00	No horse will be allowed to compete in more
	2d do 10 00	than one class or section, except when compet.
	3d do 5 (10	ing for the prize for the best horse of any age
4.	Best yearling colt 8 00	in his class, or for the best of any age or blood.
	2d do 6 00	CLASS V THE PRINCE OF WALES' PRIZE HORSE
	3d do 4 00	OF ANY BREED.
	Best stallion of any age Diploma Best French Canadian stallion 3 · 00	For the Best Stallion of any age or blood, prize
، ن	2d do 20 00	presented by His Royal Highness the
	3d do1" 00	Prince of Wales,\$60 00
۲.	Best 3 years old roadster filly 18 60	
	2d do 11 00	CATTLE.
	3d do 7 00	CLASS VIDURHAMS.
8.	Best 2 year old fiely 14 00	1. Best bull 4 years old and upwards\$36 01
	2d do 9 00 3d do 4 00	2d do 24 00
à	3d do 4 00 Best yearling filly 8 00	3d do 16 00
٥.	2d do 6 00	2. Best 3 years o'd bull 32 00
	3d do 4 00	2d do 2 · 00
10.	Best brood mare and foal, or evidence	3d do 12 00
	of foal having been lost 22 00	3. Best 2 years old bull 24 00
	2d do 14 00	2d do 16 00 3d do 8 00
	3d do 6 00	3d do
41.	Best pair of matched carriage horses 20 00	2d do 12 60
	2d do 15 00 3d do 10 00	3d do 7 00
12.	Best single carriage horse in harness 10 00	5 Best bull calf (under 1 year) 16 00
	2d do 8 00	2d do 10 00
	3d do 6 00	3d do 6 no
13.	Best saddle horse 10 00	6. Best bull of any age Diploma 7. Best cow
	2d do 8 00	2d do 12 09
	3d do 6 00	3d do 8 00
14.	Extras.	8. Best 3 years old cow 16.00
	CLASS IV HEAVY DRAUGHT HORSES.	2d do 10 00
		3d do 600
٨.	Best heavy draught stallion	9. Best 2 years old heifer
	3d do 12 00	2d do 8 00 3d do 5 00
2.	Best 3 years old stallion 22 00	10. Best one year old heifer 10 00
	2d do 14 00	2d do 6 00
	3d do 7 00	3d do 400
3.	Best 2 year old stallion	11. Best heifer calf (under one year) 600
	2d do 10 00 3d do 5 00	2d do
4.	Best yearling colt 8 00	3d do 2 w 12. Extra entries.
-	2d do 6 00	
	3d do 4 00	N.B—A certificate of Hend Book Penis E, or a sufficient reference to the Herd Book is
	Best draught stadion, any ageDiploma	which they are registered, will be required of
6.	Best 3 years old fi:ly 18 00	all animals in the Durham class, along with
	2d do 11 00 3d do 6 00	or previous to the application to enter them for
7	3d do 6 00 Best 2 years old filly 14 00	exhibit on. The pedigree of others should be
, ••	2d do 9 00	as full and correct as possible.
	3d do 4 00	CLASS VII DEVONS.
. 8.	Best yearling filly 8 00	The list of Prizes the same as in Class VI.
	2d do 6 00	CLASS VIII -H REFORDS.
	3d do 4 00	Prizes the same as Class VI.
· 9.	Best brood mare and foal, or evidence that the foal has been lost 22 00	
	2d do 14 00	CLA'S IX.—AYRSHIRES.
	3d do 6 00	Prizes the same as Class VI.
10.	Best span of draught horses 20 00	CLASS X GALLOWAY, AND POLLED ANGUS, OF
	2d do 15 00	ABERDEEN CATTLE.
•	3d · do 10 00	Prizes the same as Class VI.
11.	Extra entries.	CLASS XIGRADE CATTLE.
i E	forses shown as single carriage horses, as	1. Best Grade cow 20 0
88.	dle horses, or as spans of team or carriage	2d do 12 W
hor	ses, must not be stallions.	3d do 8 %
	·	

3. Best 3 yea	ars old cow	16	00
2d	do		
3d	do		
3. Best 2 year	ers old heifer	13	00
2d	do		00
3d	do	5	00
4. Best one	year old heifer,	10	- (1
2d	do		00
3d	do	4	00
5. Best heife	r calf (under 1 year	6	00
2d	do	4	00
3.1	do	2	00

THE FERGUS CUP

6). Best grade heifer, not more than two years old on March 1, 1863, the produce of a pure bred Durham Bull, having a recorded pedigree, and of a cow of any breed, not more than one remove from thorough bred. Fize presented by Hon. J. A. Fergusson slair,

SILVER CUP.

7. Extra entries.

DIPLOMAS will be awarded to the Breeders or Importers of bulls and stallions which take First Priz. s, when their names and residences are

given.

The Judges stall ascertain, in deciding on bull calves in any of the foregoing classes, whether the animal has been suckled or raised by tal, and make allowances accordingly. The exact age of young animals must be stated on the cards, and will be taken into consideration by the Judges in making their awards; and any person understating the age of an animal will forfeit the premium to which he might otherwise be entitled.

A statement to be produced to show the

breeding of animals in class xi.

Young cattee may compete, if the exhibitor thinks fit, in an older class than that to which they properly belong; but no animal will be allowed to compete in more than one of the foregoing sections, except for the Medals, or where all classes and ages compete together, or in the herds.

Cows in any of the above classes must be giving milk at the time of exhibition, or be

evidently well gone in calf.

An animal will not be allowed to compete as a three year old cow unless she has had a calf, or is evidently in calf, but a two-year old animal having had a calf will be allowed to compete as a two-year old heifer, if the owner thinks fit

Prizes will be awarded to animals of other breeds than those above mentioned, if deemed worthy.

CLASS XII-FAT AND WORKING CATTLE, ANY BREED.

Sect		4	c.
1. Best fat o	x or steer	30	(10
2d	do	20	00
: 3d	do	12	0
2. Best fat co	ow or heifer	3	0 .
2d	do	20	0.,
3d	do	12	00
3. Best yoke	of working oxen	20	()
2d	do	12	00
3d	do	8	00

4.	Des	yoke 3 year old steers	ΙÜ	u
	2d	do	Įυ	00
	3d	do	6	00
5.		t team of oxen, not less than ten		
	yok	te from one township, the pro-		
	peri	ty of any number of persons	10	00
F	at C	attle and Fat Sheep can be exhi	bit	ed
onl	y by	persons who have owned and fed	the	n.
at l	east.	six months previously		

S'EEP, LONG WOOLLED.

CLASS XIII .- LEICESTERS.

111111111111111111111111111111111111111		
1. Best ram, two shears and over	16	00
2d do		00
3d do	5	CO
2. Best shearing ram	16	00
2d do	10	00
3d do	5	00
3. B st ram lamb	8	09
2d do	4	00
3d do	2	υO
4. Best 2 ewes, two shears and over	16	υO
2d do		00
3d do	6	00
5. Best 2 shearling ewes	12	00
2d do	8	00
3d do	Ą	0
6. Best 2 ewe lambs	6	00
2d do	4	υÐ
3d do	2	90

CLASS XIV -- COTSWOLDS

Prizes the same as in Class XIII.

CLASS XV. — OTHER LONG WOOLL D SHIEB, NOT LEIGESTERS, OR COTSWOLDS.

Prizes the same as in Class XIII.

SHEEP,-MEDIUM WOOLLED.

CLASS XVI -SOUTH DOWNS.

Prizes the same as in Class XIII.

CLASS XVII .- CHEVIOTS.

Prizes the same as in Class XIII.

CLASS XVIII —OTHER MEDIUM WOOLLED SHEEP, NOT SOUTHDOWNS OR CREVIOTS.

Prizes the same as in Class XIII.

SHEEP-FINE WOOLLED.

CLASS XIX .- MERINOS AND SAXONS.

Prizes the same as in Class XIII

PLASS XX.—OTHER FINE WOOLLED SHEEP, NOT MERINOS OR SAXONS

Prizes the same as in Class XIII.

CLASS XXI.—FAT SHEEP.

Dec.	ι.		- 4	· C.
1.	Best two	fat wethers	12	00
	2d	do	8	00
	3d	do	4	00
2.	Best two	fat ewes	12	00
	2d	do	8	.0
	3d	do	4	00
3.	Extra enf	ries in sheep.		

Sheep that have been shown in any other c'asses cannot compete as fat sheep.

Sheep will not be allowed to compete in any class with more than the present season's growth of wool upon them

If necessar; to decide the merits of different

If necessary to decide the merits of different sheep satisfactorily, the judges shall have the power of causing them to be shorn upon the ground.

PIGS-LARGE BREEDS.

CLASS XXII. YORKSHI ES.

1. Best Boar,	1 year and over	15	00
2d	do		
4d	do	6	00
2. Best Boar	r, under I year	10	۰،0
2d	do		00
3d	do		00
3. Best Bree	ding Sow, 1 year and over.	10	0.
2d-	do		10
3 d	do	4	0.3
4. Best sow	under i year old	5	00
2d	do	4	0.)
3d-	do	3	0.1
CLASS	XXIII -LARGE BERKSHIRES.		

Prizess the same as in Class XXII.

CLA-S XXIV.—ALL OTHER LARGE BREEDS.
Prizes the same as in Class XXII.

PIGS -- SMALL BREEDS. 1

CLASS XXV. SUFFOLKS.

Prizes the same as in class XXII.

CLASS XXVI. - IMPROVED BERKSHIRES.

Prizes the same as in class XXII.

CLASS XXVII -ALL OTHER SMALL BREEDS.

Prizes the same as in class XXII.

In the classes of Pigs, the precise age of the animal is to be stated on the cards

With a view of encouraging 'argely the importation of improved stock, the exhibitor of any male animal imported into this Province from Europe since the last Exhibition, which shall take the first prize in any of the above classes, will be paid three times the amount of the premium offered in the list; the exhibitor of any female animal imported from Europe within the same time, taking the first prize, will be paid double the amount offered; the exhibitor of any male animal imported into the Province from any part of America within the same time, taking the first prize, will be paid double the am unt of prize offered; and of any female animal imported within the same time, and taking the first prize, one-half addition to the amount of prize offered in the list. Such animals to be the bona fi-ie property of persons residing in Upper Canada. Satisfactory evidence must have been given at the time of making the entry that the animal has been imported within the time named, or the increased prize will not be paid.

CLASI XXVIII .- POULTRY, &C.

Sect.	\$ c.
1. Best pair white dork 2d do	ings 4 00

		_	=
2.	Best pair of spangled do	4	00
3	2d do Best pair of black Polands		00
3	2d do		00
4.	Best pair of white Polands	4	00
5.	2d do Best pair of golden Polands		00
٠.	2d do		00
6.	Best pair of silver Polands	4	00
7.	2d do Best pair of game fowls		00
	2:1 do		00
8.	Rest pair of Jersey blues		10
9	Best pair of Cochin China, Shanghai,	4	00
	Canton, or Bramah Pootra fowls.		00
10.	2d do		00
	2d do		1,0
11.	Best pair of Java fowls		0
12.	2.1 do Best pair of Bolton bays		00
	3.1 do		01
13.	Best pair of Bolton grays		00
14.	Best pair of Eamburg fowls		00
	2d do		00
15.	Best pair of Dominique	_	00
16.	Best pair of feather-legged ban oms.		00
17	2d do Best pair of smooth-legged bantoms		00
	2d do		00
18.	Best pair of turkeys, (white)		00
19.	2d do		00 (:0
	2d do	2	00
20.	Best pair of wild turkeys		00
21,	Best pair of large geese	4	CO
22	2d do Best pair of Bremin geese		00
43.	2d do		00
23	Best pair of Chinese geese		19
24.	2d do		00
	2d do		00
25.	Rest pair of common ducks		98 98
:6	Best pair of Aylesbury ducks	4	00
97	2d do		09 Qŧ
41.	2.1 do		01
28.	Best pair of Rouen ducks		10
29.	2d do	_	09 09
	2d do		(ð
30.	Best pair of pea fowls	4 2	. Q.
31.	Best collection of pigeons	4	10
32.	2d do	Z	(1)
vá.	owned by the exhibitor	6	(()
33.	Best collection of poultry entered in		40
34.	the various classes by one exhibitor Best pair of rabbits	8	
35	Best lot of rabbits	4	

36. Other entries.

Exhibitors will have to provide their own

about three	are recomi feet cub i ant on the g	n size,	for	have conv.n	them ience

AGR CULTURAL PRODUCTIONS.

CLASS XXIX. GRAI.S, SEEDS, &C.

1. The Canada com any's prize for the best 25 bushels of Fall Wheat, the pro mee of Canada West, being the growth of the year 18.3. Each sample must be of one distinct variety, pure and unmixed, of the best quality for seed, and not co be tested merely by weight. The prize to be awarded to the actual grower on y of the Wheat, which istob giv nup to an a become the property of the Association, for distribution to the County Socicties for seed100 00 co by the Association.. 40 a0 2n l

The winners of the 2nd and 3rd prizes to reain their wheat.

3rd

This wheat will be realy for distribution iter the annual meeting. The delegates from such County Societies as desire to have a portion are requested to appy for it, and take it with them from the show ground, for immediat sowing, where practicable.

The winners of these prizes will be required to furnish the Secretary with a written stactment of the nature of the soil, more of preparation, the variety and quantity of seed, and time of sowing, manures, (if any used), produce per tire of grain, and any other particulars of practical importance, before being paid the amount of premium. Winners of prizes in the succeepg sections of this class will also be expected to furnish information when applied for.

Persons competing for the Canaba Company's nize are requested to bring a sample in the man, pulled from the ground when ripe, with the roots remaining attached.

The Board reserves the right of purchasing attorner the whole of first prize samples of grain alseeds at the market value.

2. Best two bushe's of white winter

wheat.		10	00
21	do	8	00
34	do	6	0
4th	do	4	(u
P st two l	oushels of red winter wheat	10	00
‡d	Ġo	8	c_0
31	do	6	00
4th	do		00
Best 2 bus	hels of white spring wheat	10	. 0
21	do	8	00
अ वे	do	6	00
41ի	do	4	00
Best two 1	oushels red spring wheat	10	00
2-1	do	8	90
3d	do	6	0
4th	?o	4	00
B st 2 bus	hels of barley, (2 rowed).	6	00
24	do	4	(i)
31	do	2	00
4th	doVol. Transa.	tio	ns•

3d

7. Best two bushes of barley (6 rowed)	6 00
d do	00
3d do	$^{2} 00$
4th do	rans
	6 00
24 00	
	4 00
do	2 00
4th do 11	ans
9 Best two bushels of oats (white)	6 00
21 do	4 00
	2 00
4th doT	
0. B st two bushels of oats (black)	6 00
2d do	4 (0
'd do	2 00
4th doTi	
11. Best two bushels of field peas	6 00
do	4 00
3d do	2 60
12 Best two bushels of marrowfat peas.	
21 do	4 00
31 do	2 00
4th doTi	ans.
13 Best two bushels of tares	6 00
	4 00
3d do	2 00
4th doTi	ans.
14 Best bushel of white field beans	6 00
21 do	4 00
3d do	2 00
442 10	
4th doTı	aus.
15 Best two bushels Indian corn in the	
car (white)	6 00
fd doj	4 00
3d do	3 00
l	
Jth doTr	
16. Rest two do (yellow)	6 00
2d do	4 00
3d do	2 00
4th doTı	ans.
17. B st bushel of timothy seed	6 00
2d do	4 00
3.1 do	2 00
4th doTr	ans.
18. Best bushel clover seed	6 00
21 do	4 00
	2 00
3d do&	
19 Best bushel of Alsike clover seed	6 00
2d do	4 (0
3d do	2 00
	6 00
2d do	4 00
3d	2 00
21. Best bushel of flax seed	6 00
td do,	4 00
3d do	2 00
22. Best bushel of mustard seed	6 00
	4 00
2d \ \{\gamma} \cdot \ \\	
3d do	2 00
23. Best Swedish turnip seed, from	
transplanter bulbs, not less than	
20 pounds	6 00
d do	4 00
3d do	2 00
24. B st 14 bs white Belgian field carrot	
seed	6 00
2d do	4 GU
34 do	

do......

25	Best 12 lbs long red mangel wurzel	15 Best 12 roots red globe mangel wurzel 3 @
	seed	2d do
	3d do 2 00	16 Best 12 roots yellow globe mangel
36.	Best 12 lbs yellow globe mangel wurzel seed 6 00	wurzel 3 () 2d do 2 ()
	2d do 4 00	3d do 10)
	3d do 2 00	17. Best 12 roots long yellow mangel
27.	Best bale of hops, not less than 112 pounds 20 00	wurzel 3 0) 2d do 2 6
	2d do 12 00	3d do Trans.
_	3d do 8 00	18. Best 12 roots of khol rabi 3 %
28.	Best bushel of horse or tick beans. 6 0 do	2d do 201 3d do 109
	3d do Trans.	19. Best 12 roots of sugar beet 3 @
29.	Best bushel of buckwheat 4 00	2d do 20
•	2d do 2 00 3d o Trans.	3d do 10 20. Best 20 roots parsnips 30
30.	Best bushel of Millet 4 0	2·1 do 2 @
	2d do 2 00	3d doTrans,
21	3d do Trans. Best bushel of Hungarian grass seed 4 00	21. Best 20 roots of chicory 3 %
91.	2d do 2 00	3d doTrans
	3d do Trans.	22. Best 2 large squashes for cattle 3 M
	Extra entrics.	2d do 2
	SS XXX.—ROOTS AND OTHER FIELD CROPS. Best bushel of pink-eyed potatoes . 3 0:	23. Best 2 mammoth field pumpkins 3 @
1.	2d do 2 00	2d do 2 (4)
	3d do 1 0	3d doTrans 24. Best 4 common yellow field do 3 i
3.	Best bushel cup potatoes	2d do 2 %
	3d do 1 0	3d doTrans
3.	Best bushel garnet Chilis, 3 0	25. Best 20 lbs of tobacco leaf, growth of Canada West 3 6
	2d do 2 00 do 1 00	2d do 2 %
4,	Best bushel white potatoes 3 00	d doTrans
	2d do 2 00	36. Best broom corn brush, 28 lbs 3 & do
5	3d do	The Canada Company's Prize for Flax.
٧.	2d do 2 00	27. Best 1:2 lbs of flax, scutched 24 M
_	3d do Trans.	2d do by the Association 16 0
6.	Best bushel blue	3d do do 8 @
	8d doTrans.	The Canada Company's Prize for Hemp. 28. Best 112 lbs of Hemp
7.	Best bushel of any other sort 3 00	2: no by the Association 12 8
	2d do 2 00 3d do Traus.	3d do do 60
8.	Best collection of Field Potatoes, a	29. Other entries. The roots in the above class to be certification.
•	peck of each sort named 4 00	as of field culture by the Exhibiter]
	2d do 3 00 2d do 2 00	Roots of other varieties than those about
9.	Best bushel Swede turnips 3 00	named will receive prizes if worthy
•	2d do 2 00	The names of the different varieties of wheat
10.	3d do 1 00 Best bushel white globe turnips 3 00	or other grain, roots, &c, must be inserted by each exhibitor in his list of entries.
	2d do 2 00	i
	34 doTrans. Best bushel Aberdeen yellow turnips 3 00	HORTICULTURAL PRODUCTS.
11.	2d do	CLASS XXXI,—FRUIT.
	3: do Trans	Nurseryman's List. Canada only. Comp
12.	Best 20 roots red carrots 3 0°	titors can receive a premium only in on
	2d do 2 00 3d do 1 00	section of each fruit.
13	Best 20 roots white or Belgian carrots 3 00	1. Best 30 varieties apples, correctly
•	2d 'do 2 °0	named, six of each
34	3d do 1 00 Best 12 roots mangel wurzel(long red) 3 00	2. Best 20 varieties do, correctly named,
4 20	2d do 2 00	six of each
	3d do 1 00	2d do 3 t

3. Best 15 varieties do, correctly named,	19. Best collection plums, correctly
six of each	1
2d do 2 00	
4. Best 20 varieties pears, correctly	3d do 2 00
named, three of each	
2d do 6 00	
5. Best 10 varieties do, correctly	2d do 1 00
named, three of each	3d doVol. Trans.
2d do	21. Best 6 varieties peaches, correctly
	named; grown in open air, 6 of each 4 00
named, six of each	each
7. Best 3 varieties do correctly named,	3d do 2 00
six of each	22. Best 12 peaches one variety, cor-
2d do 2 00	rectly named, grown in open air. 2 00
8. Best 10 varieties peaches, correctly	2d do 1 00
named, grown in open air, six of	3d do Trans.
each 4 00	23. Best collection grapes, grown in
2d do 3 00	орен аіг 6 00
	2d do 4 00
Best 6 varieties do, correctly named, grown in open air, six of each 3 00 2d do 2 00	3d do 2 00
2d do 2 00	24. Best 3 bunches do, one variety, cor-
0. Best collection grapes, grown in	rectly named 3 00
open air, two bunches each, named 5 00	2d do 2 00
2d do 4 00	3d do Trans.
1. Best display of fruit, the growth of	
exhibitor, distinct from other	General list of Fruits, Canada, open to all.
entries, three specimens of each	25. Best 12 Nectarines, one variety,
sort	named correctly, grown in open
2d do 6 00	air 3 00
3d do 4 00	2d do 2 00
1 1 0 1 1 27	26. Best 12 Quinces 2 00
ruit Growers' List. Canada only. Nur-	5d do 1 00
serymen excluded from this Class. Com	27. Best peck Cranberries, domestic
petitors can receive a premium only in one	cultivated 2 00
section of each fruit.	2d do 1 00
2. Best 20 varieties apples, correctly	28. Best collection grapes, grown under
named, six of each \$6 00	glass, one bunch each, correctly
2d do 4 00	named 6 00
3d do 2 00	2d do 4 00
Best 10 varieties do., correctly	2d do 2 00
named, six of each \$4 00	29. Best 2 bunches black grapes, grown
2d do 3 00	under glass, correctly named 4 00
3d do 2 00	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Best 6 varieties dessert apples cor	3d do
rectly named, six of each 3 00	
2d do 2 00	under glass, correctly named 400 2d do 300
3d do Vol. Trans.	3d do 2 00
Best 6 varieties, cooking do., cor-	31. Best green flesh melon 2 00
rectly named, six of each 3 (10)	2d do 1 00
2d do 2 00	32. Best red or scarlet flesh melons 2 00
3d doVol. Trans.	2d do 1 00
Best 10 varieties pears, correctly	33. Best water melon 2 00
named, three of each	$2d$ $do \cdots 1 00$
Best 10 varieties pears, correctly named, three of each	
3d do 2 00	Domestic pure Wines
Best 6 varieties do., correctly named,	34. Best Isabella wine Diploma.
H three of each 5 (10)	35. Best Delaware wine ·······
2d do 3 00	36. Best native Canadian grape wine.
	37. Best grape wine from any other sort "
Best 12 pears of one variety 3 00	38. Best currant wine
2d do 2 00	39. Best raspberry wine
Best 12 pears of one variety 3 00 2	40. Best straberry wine "
3	· · · · · · · · · · · · · · · · · · ·

41.	Best blackberry wine	٠.	
19	Best perry	44	
43.	Best eider ·····	"	
	Foreign Class.		
44.	Best collection of apples	5	00
	2d do		00
45.	Best collection of pears	5	úθ
	2d do		00
46.	Best collection of plums	-	00
10.	2d do		00
47	Best collection of peaches	_	00
	2d do		00
48	Best collection of open air grapes.		00
IO.	2d do		00
49.	Extra entries, fruits	'E	00
	Dr. Beadle's Prizes:		
~			

Special prizes offered by the late Dr. Beadle of St Catherines, and to be given by Mr. D. W. Beadle.

To any person, not a professional nurseryman, residing within the County of Ontario, or Durham, Victoria, Northumberland, Peterborough, Prince Edward, Hastings, Lennex, Addington, Frontenac, Leeds, Lanark, Grenville, Dundas, or Stormont, who shall exhibit the largest collection of really valuable pears, not more than six specimens of each variety, nor less than three varieties in each collection, each variety named, and shall with the entry make the written statement required below; a premium of thirty five pear trees of suitable size for planting, grown either upon the pear or quince stock, at the option of the exhibitor, and of such kinds as the exhibitor may select from the list of pear trees cultivated at these nurseries.

To the exhibitor of the second best collection, upon the same conditions, a premium of fifteen pear trees, with like privilige of choice to exhibitor.

The exhibitor of the third best collection, upon the same conditions and with the same privileges, a premium of five pear trees.

Each exhibitor to send with his entry a written statement, shewing the township, lot and concession where the fruit exhibited by him was grown; the nature of the soil; the stock, whether pear or quince; the hardihood of each variety and probable ability to endure the climate of his locality, and which of the varieties the exhibitor values most highly; such statement to be signed by the exhibitor, giving also his post office address.

The collections to be exhibited at the Provincial Fair, to be held in 1863, subject to the rules and regulations of the Agricultural Association, such entries to be distinct from all other entries. The Board of Agriculture to appoint two of the judges to decide upon the merits of the several entries, the third judge to be subject to appointment by Mr. Beadle.

_		
	CLASS XXXII-GARDEN VEGETABLES.	
		_
1,	Best 12 roots of salsify	3 0
		1 5}
	3d do	l (4
2.	Best 3 heads brocoli	2 00
	2d do	1 54
	3d aoq	1 00
3.	Best 3 heads cauliflower	2 (4
	2d do	1 53
	3.l do	1 03
4.	Best 3 heads cabbage (summer)	2 (3
7.	2d do	
		1 5)
_		1 14
5.	Best 3 heads cabbage (winter)	2 時
	2d 60	1 51
	3d do	1 (
6.	Best 4 sorts winter cabbage, inc ud-	
	ing savoys, 1 of each sort	3 (4
	2d do	214
	3d do	1.0
7.	Best 3 heads red cabbage	2 9
••	2.l do	1 5)
	3d do	10
0	Best 12 carrots for table, long red	
8.		2 1
	2d do	1 5
_	3d do	1 (4
9.	Best 12 early horn carrots	2 0
	2d do	1 5i
	3d do	1.0
10.	Best 12 table parsnips	2 €
	2d do	15
	3d do	16
11.	Best 6 roots of white celer	20
	21 do	1 5
	3d do	16
12		2 (
1 2	2d do	13
	3d do	11
	Dut damm considered (view)	
13.	Best dozen capsicums (ripe)	2 (
	2d do	1.5
	3d do	16
14		
	of each sort	3 (
	2d do	2 (
	3d do	11
15.		3 (
٠.	2d (0	1:
1	3d do	1:
16	Best 12 tomatoes (red)	2(
١٠٠.	2d do	1:
	3d do	1(
٠, ۳		31
17.		
	2d do	1 :
	3d do	1 (
18.	Best assorted collection of tomatoes,	
	3 each of large sorts, and 6 each	
l	of small sorts	3 (
1	2d do	2 (
1	3d do	11
19.		2
1 *3	2d do	ī.
1	3d do	I
	Don't made of white arising	3.
2).		1:
]	2d do	- 7
	Ed do	1.
21.	Best peck of ye low onions	3.
l	2d do	1.
•	3d do	1.

ı.						
ĺ,	., I	3 st peck of red onions	2	10!	14. Best floral ornament or aesign 5	00
1		2d • 0		5		00
١		3d do		10		0)
ĺ,		lest 12 white turnips (table)		00	15. Best collection of verbenas, not less	٠,
ľ		2d do		5)		CO
1		3d do		0		00
١,		Best 12 yellow turnips (table)		00		00
1		2d do		50		00
1		3d do		00		50
١,		Best 12 cars sweet corn		00		00
١,		2d do	_	50		00
1		3d do		00	2d do 1	_
		Best and greatest variety of potatoes,	•	"" }		00
1		half peck of each sort, named	3	00		00
1		21 do		00	2d (0	
1		3d do		00		00
ı,		Best 3 squashes (table)		00	1	00
		2d do	_	50		50
H		31 do		00		00
H		Best and greatest variety of vegeta-	•	00	2'. Best display of plants in flower, dis-	• • •
П		bles, (istinct from other entries)				00
ı		each kind named	1	co	·	00
H		21 do		00	1 .	00
l		3d do		CO	21. Best collection of native plants, dried	
l		Extra entries.	~	"		00
ı					1	0)
H		CLASS XXXIIIPLANTS AND FLOWERS	١.		3d do 2	. 0
H	1.]	Best dozen dahlias, named	2	00	22 Best specimen of useful and orna-	_
H		2d do	1	50		0.0
H		3d do	1		1 - 1	(0
ì	2.]	Best and largest collection of dahlias	5	00	3d do 2	00
ı		21 do	4	00	23. Entra entries	
ij		3d do	3	00	Competitors in classes 3', 31, and 3?, are	re-
i	3,]	Best bouquet of cut flowers (for table)	2	nΩ	quested to deliver their various production	e in
i		2d, do	1	50	a clean and proper state for exhibition.	3 111
Š		3d do		กับ	1	
3	4.	Best hand bouquet	2	00	CLASS XXXIV DAIRY PRODUCTS, HONEY,	,
10		2d do	1	50	BACON, &C.	
Sase		3d do	1	CO	1. Best firkin of butter, in shipping or-	
	δ,]	Best collection of green-house plants,			der, not less that 56 ibs 12	00
		not less than 12 specimens, in				00
		flower	10	00	3d do 8	
		2d do	6	00		60
7		3d do	4	00	2. Best butter, not less than 28 lbs, in	
		Best 12 pansies	2	60		6.0
1		2d do	1	5.)		00
200		3d do	1		· · · · · · · · · · · · · · · · · · ·	00
	٦.	Best 6 fuchsias, in flower		60		60
Ě		2d do		00	3. Best cheese, not less than 3 / lbs 10	
	١	3d do		00		3 60
3	٠	Best collection of annuals in bloom	2	-	1 447	00
		20 00	1			00
	١, .	3d do	1	_	4. Best two Stilton cheeses, not less than	
	٠	Best 6 cockscombs	2			00
Ī		2d do		50		3 00
t	10	3d do		00	413	00
	í". '	Best 6 balsams in bloom	-	nn En	1	l CO
ı			1			2 00
	11	3d do	-	00		3 GO 3 CO
	1		2		1	59
5	3	2d do	1	-		
	12	Best collection of 1 ' weeks' stock		- 60 - 60		1 00
	ſ	2:1 do		51	1	2 00
		3d do		00		50
,	13.	Best collection of hybri perpetual	•	30	4th doTr	
	i i	roses, not less than 12 blooms	3	00	1	3 00
		2d do	-	00	1	2 09
		3d do		00	1	1 00

Addicontonic	AND SOCIENAL
8. Best side of cured bacon 3 00	; 15. Best eider mill and press 12 0
2d do 2 00	
3d do 1 00	16. Best two-horse team waggon 126
9. Best ham, cured 3 0:	2d do 8 @
2d do 2 00	3d do 4 w
3d do 1 00	
10. Extra Entries.	2d do 7 W
Persons taking premiums on dairy products	
will be required to furnish statements of the	18. Best one-horse light market waggon 9 a
mode of manufac ure, including the breed and	
number of cows, size of farm, description of	3d do 3 @
dairy premises, treatment of milk, salt used,	19. Best horse cart 6 0
quantity of produce, and any other practical in-	2d do 4 6
formation that they may be able to afford, be-	3d do 20
fore being paid the amount of premium.	20. Best farm sleigh 80
CLASS XXXV AGRICULTURAL IMPLEMENTS,	2d do 40
WORKED BY HORSE OR OTHER POWER.	3d do 2 (
Sect. S c.	21 Rost horse rules
1. Best iron plough, diploma and 12 00	2d do 3 @
2d do 8 00	3d do 2 (4
3d do 4 00	199 Rost motel roller 11#
2. Best wooden plough, diploma and 12 00	2d do 8 W
2d do	23. Best wooden roller 10 u
3d do 4 00	2d do 5 (4
	24. Best stump extractor 80
The ploughs to be tested in the field, on the	2d do 4 (°
Tuesday, by a Committee appointed for the pur	25. Best reaping machine, diploma and 20 "
pose, at the Exhibition; ease of draught, effi-	2d do 12 (
ciency of work, and price, to be considered.]	3d do 8 @
3. Best subsoil plough, diploma and 12 00	26. Best mowing machine, diploma and 200
2d do 8 00	2d do 12 f
3d do 4 00	3d do 8 (
4. Best double shear trench plough 19 00	27. Best combined mower and reaper,
2d do 6 00	diploma and 20 6
3d do 4 00	2d do 12 (
5. Best double mould plough 10 00	3d do 86
2d do 6 00	28. Best potato digger 34
3d do 4 00	2d do 2f
6. Best pair of harrows 6 00	3d doTrans.
2d do 4 00	29. Best field or two-horse cultivator 124
3d do 2 00	2d do81
7. Best horse-power thresher and separ-	3d do 4(
ator, dipioma and 20 00	30. Best horse hoe, single horse cultiva-
2d do 12 00	vator
3d do 8 00	2d do 3 v
8. Best grain drill, diploma and 12 00	
2d do 8 00	31. Best post hole borer 126
3d do 4 00	2d do
9. Best straw cutter 5 00	32. Best brick-making machine 10
2d do 4 00	2d do 6t
3d do 3 00	33. Best flax-dressing machine 30
10. Best smut machine 6 00	2d do 20(
2d do 3 00	3d do 10 v
11. Best portable grist mill 12 00	34. Best machine for sinking field drains
2d do 8 00 3d do 4 00	and laying in and covering tiles 60.
	2d do
12. Best grain cracker	
	35. Best portable steam engine, for agri-
	cultural purposes, 6 to 10 horse
13. Best corn and cob crusher 4 00	power
2d do 3 00	2d do 30
3d do 2 00	3d do20
14. Best clover cleaning machine 12 00	36. Best steam plough or cultivator, in
2d do 8 00 3d do 4 00	operation on the ground (open to
3d do 4 00	foreign competition)100
•	

3. Best improved liquid manure drill,	20. Best half-dozen iron [flat] shovels 3 00
for drilling two or more rows of	$egin{array}{cccccccccccccccccccccccccccccccccccc$
liquid, with turnips, mangels. &c., either on the ridge or flat 25 00	21. Best half-dozen spades 3 00
2d. do 15 00	2d do 2 00
38. Extras.	3d do 1 00
1	22. Best half dozen steel hoes 3 00
CLASS XXXVI. —AGRICULTURAL TOOLS AND IM- PLEMENTS, CHIEFLY FOR HAND USE.	$egin{array}{cccccccccccccccccccccccccccccccccccc$
	3d do 1 00 23. Best half-dozen grass scythes 3 00
1. Best fanning mill, diploma and 6 00 do 4 00	2d do 2 00
2d do 4 00 do 2 00	3d do 1 00
2. Best seed drill, or barrow 4 00	21. Best half-dozen gradle scythes 3 00
2d do 3 60	2d do 2 00
3d do 2 06	3d do 1 00 25. Best machine for making drain tiles,
3. Best straw cutter	diploma and
2d do 4 00 do 3 00	2d do 10 00
4. Best machine for cutting roots for	26. Best set of draining tools 6 00
stock 6 00	2d do 4 00
2d do	3d do
3d do 2 60	2d do 4 00
5. Best cheese-press	8d do 2 00
2d do 6 00 6. Best churn 3 00	28. Rest straw fork, wood 2 00
2d do 2 00	2d do 1 00
7. Best garden, walk, or lawn roller 4 00	3d do Trans.
2d do 2 00	29. Best implement or machine for cut-
3d do 1 00	ting pulling, or otherwise harvest- ing peas, hand or horse power 10 00
8. Rest thistle extractor	2d do 5 00
3d do Trans	30. Best 6 chopping axes 3 00
9. Best farm gate	2d do 2 00
2d . do 2 00	31. Best set horse shoes
do	2d do 1 00 32. Extra entries.
10. Best specimen farm fence, wood 3 00 2 d do	
2 d do 2 00 do	CLASS XXXVII CATTLE FOOD-MANURES, AND MISCELLANEOUS.
Il. Best specimen wire fencing, not less	
than two rods, erected on the ground 8 00	1. Best specimen oil cake
2d do 6 00	2. Best specimen prepared food for
2d do	cattle 4 00
2d do 3 00	2d do 2 00
3d do 2 00	3. Best specimen ground bones, for manure 4 00
3. Best half-dozen hay rakes 3 60	1 2d do 2 an
2d do 2 00	4. Best specimen other artificial man-
3d do	ure 4 00
2d do	2d do 2 00
2d do 2 00 3d do 1 00 5- Best half-dozen hay forks 4 00 2d do 2 00 3d do 1 00	
5 Best half-dozen hay forks 4 00	
2d do 2 00	THE THE MILE STREET STREET
3d do	
2d do 2 00	
3d do 1 00	
Best ox-yoke and bows 2 00	WOOD MANUFACTURES.
2d do 1 00	4
3d do Trans	
8. Best grain cradle	
9. Best half-dozen grain shovels 3 00	2d do 6 00
2d do 2 no	2. Best Centre Table 7 00
3d do 1 00) 2d do 4 00

د ۱۱ ن	MUNICULIO	I GIVI	AND SOURAL
	P. + Donnier Press, S. C.	7 110	0 Rost Child's Commence
3		1 00	9. Best Child's Carriage
4.		7 (1()	10. Best Dog Cart, single norse 60
	2d do	4 00	2d do 4 (a)
õ,		3 00	11. Best Express Waggon 60
	2d do	1 ()1.	2d do
G.		(j. (j.)	12. Best Hubs, two pairs carriage 3 (
٠,		3 00	2-1 do 2 (0)
₹.		5 (10)	13. Best Rims or Felloes, two pairs car-
		3 00	riage
	. Miscellaneous.		14. Best Spokes, 1 dozen machine made
8.		4 00	car-riage 30
o.		3 00	2d do 2 (4
IJ.		2 00 1 00	15. Best Sieigh, two horse, pleasure 1001
10		3 00	1 2d do 6 (4)
		2 00	16. Best Sleigh, one horse, pleasure 8 M
11.	Best Handles for Tools for Carpen-	_ ,,,,	2d do
	ters. Blacksmiths Gansmiths,		17. Best Springs, one set steel carriage. 4 @ do 3 @
	Watchmakers, & collection of.	8 00	18. Best Sulky, trotting 50
		1 00	2d do 3 ()
(2.		₹ 00	19. Best Wheels, one pair of carriage,
12	2d do	1 00	unpainted 3 @
13.		6 00	2d do 20
	2d do	1 1.0	20. Extra Eatries.
14.		2 00	CLASS XLCHEMICAL MANUFACTURES AND
	2d do	00	PREPARATIONS.*
lő.	Best Turning in Wood, collection of		1. Best Essential Oils, assurement of 6 M
		5 00	2d do 4 (
16	2d do	1 00	2. Glue, 14 lbs 3 °
10.		1 00	2d do 2 (
		3 00	3. Best Isinglass, 1 lb
17.	Best Veneers from Canadian Woods,	. 50	2d do
		3 00	Plants, native growth 12 k
	2d do	1 00	2d do
18.	Best Vencers from Canadian Woods,		5. Best Oils, Linseed and Rape, and
		3 00	other expressed kinds 61
19	2d do	£ 00	2d do 41
13.		1 00	6. Best Oil-Coal, Shale, or Rock 6(
	2d do	2 00	2d do
20.	Best Willow Ware, six specimens 4	00	7. Best Oil, Neats' foot, half gallon 21
	2d do	2 00	8. Best Printing Inks, an assortment. 3.
21.	Extra Entries		2d do2t
CLA	SS XXXIX.—CARRIAGES AND SLEIGHS,	AND	9. Best Varnishes, assortment of 60
	PARTS THEREOF.		2d do 4.
1.	<u> </u>	3 00	10. Extra entries
а		2 00	CLASS XLL -DECORATIVE AND USEFUL ART
4.	•	00	DRAWINGS AND DESIGNS.
3.		2 00 3 00	1. Best Architectual Design, with com-
٠.		2 00	plete detail Drawings
4.	15 15	3 00	2d do 6
	2d do 4	00	2. Best Carving in Wood
δ.	Best Buggy, single seated	7 00	2d do 4
	2d do	00	3. Best Drawing of Machinery, perspec-
ь.		00	tive
7	2d do		40 0
••		2 00 ° 7 00 °	* All parties exhibiting in competition for prize in-
8.		3 00	Board of Aris and Manuf-ctures, Toronto, by the is
		00	September, with a view to having a proper analysm a prior to the Exhibition.
			• • • • • • • • • • • • • • • • • • • •

-	Best Decorative House Painting	5	00	In Water Colours.	
	9d do	3	00	7. Best Animals grouped or single	7 00
.	Best Decorative Sign Writing, on			2d do	5 00
٠.	Glass	4	00	8. Best Flowers, grouped or single	7 00
	2d do		00	2d do	5 00
6.	Best Engraving on wood, with proof		60	1 b. 1 cot 1 contract to the c	7 00
	2d do		00	2d do	5 00
ĩ.	Best Engraving on Copper with proof		00	1 101 130bt 23ttlinibetatic of situation 2 thinking 2,	
	2d do		00		7 00
٧.	Best Goldsmith's Work		00		5 00
	2d do	3	00	11. Best Marine Painting, Canadian sub	
3.	Best Geometrical Drawing of Engine	_	20		7 00
	or Mill work, coloured.		00		5 00
	2ddo		00	12. Best Portrait	6 (R
10.	Best Lithographic Drawing.		00		4 00
	24		00	Pencil, Crayon, &c.	
11.	Best Lithographic Drawing, coloured		00	13. Best erayon, coloured	6 00
	2d do		00		4 00
12.	Best Mantlepiece in Marble		00		6 00
	2d do		00	2d do 4	1 00
13.	Best Map of Canada, Lithographed.		00 00		6 00
٠.	Best Mathematical, Philosophical	.4	00		1 00
14.	and Surveyor's Instruments, col-			16. Best pencil Drawing	6 00
	lection of	15	nn	2d do 4	L 00
	2d do	10	00	17. Best pen and Ink Sketch	6 00
Re-	Best Modelling in Plaster		00		1 00
11.7.	2d do		00	Amateur List-Oil.	
li e	Best Monumental Headstone		00		
10.	2d do		60		8 00
17	Best Picture Frame, ornamented gilt		00		5 00
	2d do		00		8 00
ńŝ.	Best Penmanship, business hand	4	60		5 00
	2d do		00		3 00
19.	Best Pe manship, ornamental		00	2d do 21. Best landscape or Marine Painting,	5 00
	2d do	2	00		8 00
20.	Best Seal Engraving, collection of im-				5 00
1	pressions		00	2d do	, 00
}	2d do	3	00		3 60
21.	Best Sign Writing	4	00	1	5 00
1	2d do	2	00		7 00
22.	Best Silversmith's Work	5	00		5 00
	2d do	3	00	1	
23.	Best Stained Glass, collection of			In Water Colours.	
	specimens				7 00
١.	2d do	6	00		00
71.	Extra entries			25. Best Flowers, grouped or single	
i	CLASS XLII FINE ARTS.		- 1	2d do 3	
1			- 1		00
	Professional List—Oil.			2d do 5	00
,	Best Animals grouped or single	19	nn l	27. Dest Landscape, or Marine Painting,	
1"	2d do		00	not Canadian subject	
2			00		00
1	2d do		(0)	1 201 1836 Marine Fien, Canadian Subject	
3.	Best Landscape, Canadian subject		00	100	00
	2d do.		00		00
4.	Best Landscape or Marine Painting,	•	"	2d do 4	: 00
		10	00	Pencil, Crayon, &c.	
	2d do		00	100 70 . 00	00
{ .	Best Marine Painting, Canadian sub-	•			00
	ject.	12	00 1	1 0 0	00
				2d do 3	
G.	2d do	10	00	32. Best Crayon or Pencil Portrait 5	
1	2d do		00		00

33. Best Pencil Drawing 5 (10 1	9. Best sugar, 20 lbs. of beet root 3 %
2d do 3 (00	9d do 20
34. Best Pen and Ink Sketch 5 (0. Best sugar, 20 lbs. of sorghum 3 (4
2d do 3 (00	2d do 2 (4
Photography.	2	1. Best sugar, one loaf of refined 500
_ _	م ا م	2d do 3 ()
35. Best Ambrotypes, collection of 6 (2d do		2. Best tobacco, 14 lbs. Canadian ma-
36. Best Photograph Portraits, collec-	"	nufactured 4 W
tion of, in duplicate, one set	12	
coloured 10 (00 "	3. Rest wheat flour 5 \(\text{0} \) 2d \(\text{do} \) 3 \(\text{d} \)
2d do 6 (4. Extra entries.
37. Best Photograph Portraits, collec-	}	
tion of, plain 8 (CLASS XLIV.—LADIES' WORK.
2d do 5 (00	1. Best bead work 3 (4
38. Best Photograph Landscapes and		2d do 2 (
Views, collection of	20	3d do 1 04
2d do 5 (39. Best Photograph Portrait in Oil 8 (2. Best braiding 3 (
2d do 5 (00	2d do 20
40. Extras		3d do
		3. Best crochet work 3 0
CLASS XLIII.—GROCERIES AND PROVISIONS.	ı	2d do 2 of
1. Best Barley, Pearl 3	00	3d do
$2d$ $do \cdots 2$	00	4. Best embroidery in muslin 3 @ 2d
2. Best Barley, Pot 3	110	3d do 1 @
2d do 2		5. Best embroidery in silk 3 @
3. Best Biscuits, an assortment of 6	00	2d do 20
2d do., 4	00	3d do 10
4. Best Bottled Fruits, an assortment, manufactured for sale 6	Λη.	6. Best embroidery in worsted 30
2d do 4	1	2d do 20
5. Best Bottled Pickles, an assortment,	00	3d do 1 6
manufactured for sale 6	00	7. Best gloves, three pairs 26
2d do 4		2d do 1 (
6. Best buckwheat flour 3	00	3d do
2d do 2	00	8. Best guipure work 34
7. Best cayenne pepper from capsicums		2d do 21
grown in the Province 2		3d do 1 (
A 7) . 111 AA 11 A	00	9. Best hair work
	00	2d do 26 3d do 16
		3d do
2d do 2	00 1	2d do 2t
10. Best mustard, one jar	00	3d do
2a do 1	00 1	11. Best lace work 36
	00	2d do 20
2d do 2	00	3d do
12. Best sauces for table use, an assortment, manufactured for sale 6	00 1	12. Best mittens, three pairs of woollen 20
	00	2d do
10.73	nn l	3d do 0
	00	13. Best needle week, ornamental 3
14. Best soaps, collection of assorted		2d do 20
fancy 6	00	
	00	14. Best netting, fancy 36
15. Best spices, ground, and assortment		2d dp
	00	V.4
	00 1	15. Best plait for bonnets or hats, of
	00	Canadian straw
	00	3d do1
		16. Best shirt, gentleman's 3
	00 1	2d do 2
	00	3d do1

Ì	7. Best socks, three pairs of woollen	2	00	13. Best saw mill, in model or otherwise	6	00
1	2d do	1	00	2d do		00
1	3d do		50	14. Best sewing machine, manufacturing		00
١	Best stockings, three pairs of woollen		00	2d do		00
1	2d dodo	1 0	00 50	2d do		00
1	3d do		00	16. Best scales, platform		00
Ì	2d do		00	2d do	3	00
1	3d do	1		17. Best scales, counter		00
2	0. Best wax fruit	6	00	2d do		00 00
-	2d do	$\frac{4}{2}$	-	18. Best shingle-splitting machine		00
į	3d do	6	00	19. Best skates, an assortment of	-	00
1	2d do	-	00	2d do	4	00
Ì	3d do	2	00	20. Best smoke consuming furnace, in		
1	2. Best wax shells, a collection of		00		12	
-	2d do	4	06	2d do	"	00
	3d do	2		21. Best tools, for working in metals, assortment of	12	00
1	3. Best worsted work		00 00	2d do		00
1	3d do		00	22. Best turning lathe	5	00
	a. Best worsted work (fancy) for fram-	_		2d ao	3	00
	ing	3	00	23. Best valves and gearing for working		
	2d do	2	00	steam expansively, either in model		
	3d do	1	00	or otherwise, principle of working to be the point of competition	19	ΛΛ
	Best worsted work (raised)	3		2d do		00
	2d do		00	24. Extra entries.	•	••
	v. Extra entries.	•	00	CLASS XLVIMETAL WORK, (MISCELLAN	EOI	us)
	i. Extra entites.			INCLUDING STOVES.		,
	XLVMACHINERY, CASTINGS, AND TOO	ols.		Miscellaneous.		
i.	i .					
[Best blacksmith's bellows	4	00	1. Best coal oil lamps, an assortment.	8	00
	Rest blacksmith's bellowsdo		00 00	1. Best coal oil lamps, an assortment.		00 00
1000	2d do		00			
a constitution of the same	2d do	10	00	2d do	5 7	00
the state of the s	2d do	10 6	00 00 00	2d do	5 7	00
Tall a state of the state of th	2d do	10 6 8	00 00 00	2d do	5 7 4	00 00 00
A CONTRACTOR OF THE PROPERTY O	2d do	10 6 8	00 00 00	2d do	5 7 4 6	00
The state of the s	2d do	10 6 8	00 00 00	2d do	5 7 4 6 4	00 00 00
A Committee of the Comm	2d do	10 6 8 5	00 00 00 00 00	2d do	5 7 4 6 4 7 5	00 00 00 00 00 00 00
and the state of t	2d do	10 6 8 5	00 00 00 00 00	2d do	5 7 4 6 4 7 5 3	00 00 00 00 00 00 00
A CONTRACTOR OF THE PROPERTY O	2d do	10 6 8 5 12 7 6	00 00 00 00 00 00 00	2d do	5 7 4 6 4 7 5 3 2	00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4	00 00 00 00 00 00 00	2d do	5 7 4 6 4 7 5 3 2 8	00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15	00 00 00 00 00 00 00 00	2d do	5 74 64 75 32 85	00 00 00 00 00 00 00 00 00
The second secon	2d do 2 Best castings for general machinery. 2d do 3 Best cast wheel, spur or hevel, not less than 50 lbs. weight 2d do 4 Best castings for railways, railroad cars and locomotives, assortment of 2d do 5 Best hand power weaving loom 2d do 6 Best edge tools, an assortment do	10 6 8 5 12 7 6 4	00 00 00 00 00 00 00 00	2d do	5 74 64 75 32 85 7	00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10	00 00 00 00 00 00 00 00 00 00	2d do 2. Best coopersmith's work, an assortment 2d do 3. Best engineer's brass work, an assortment 2d do 4. Best fire arms, an assortment 2d do 5. Best files, collection of cast steel 2d do 7. Best gas fittings, an assortment	5 74 6475328575	00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do 2d do 2d do 3 Best castings for general machinery. 2d do 4 Best cast wheel, spur or hevel, not less than 50 lbs. weight 2d do 5 Best castings for railways, railroad cars and locomotives, assortment of 2d do 2d do 5 Best hand power weaving loom 2d do 6 Best edge tools, an assortment do 2d do 6 Best engine, steam, stationary, of one to four horse power, in operation	10 6 8 5 12 7 6 4 15 10	00 00 00 00 00 00 00 00 00 00	2d do 2. Best conpersmith's work, an assortment 2d do 3. Best engineer's brass work, an assortment 2d do 4. Best fire arms, an assortment 2d do 5. Best files, collection of cast steel 2d do 6. Best fire proof office safe 2d do 7 Best gas fittings, an assortment 2d do 8. Best iron fencing and gate, ornamental	5 74 6475328575	00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do Best castings for general machinery. 2d do Best cast wheel, spur or hevel, not less than 50 lbs. weight 2d do Best castings for railways, railroad cars and locomotives, assortment of 2d do Best hand power weaving loom 2d do Best edge tools, an assortment 2d do Best engine, steam, stationary, of one to four horse power, in operation 2d do 2d do	10 6 8 5 12 7 6 4 15 10	00 00 00 00 00 00 00 00 00 00	2d do 2. Best conpersmith's work, an assortment 2d do 3. Best engineer's brass work, an assortment 2d do 4. Best fire arms, an assortment 2d do 5. Best files, collection of cast steel 2d do 6. Best fire proof office safe 2d do 7 Best gas fittings, an assortment 2d do 8. Best iron fencing and gate, ornamental 2d do	5 74 6475328575	00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10	00 00 00 00 00 00 00 00 00 00	2d do	5 74 6475328575 75	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10	00 00 00 00 00 00 00 00 00 00 00	2d do 2. Best coopersmith's work, an assortment. 2d do 3. Best engineer's brass work, an assortment. 2d do 4. Best fire arms, an assortment. 2d do 5. Best files, collection of cast steel 2d do 6. Best fire proof office safe 2d do 7 Best gas fittings, an assortment. 2d do 8. Best iron fencing and gate, ornamental. 2d do 9. Best iron work from the hammer, ornamental.	5 74 6475328575 75 6	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10 15 10	00 00 00 00 00 00 00 00 00 00 00 00	2d do	5 74 64 75 32 85 75 75 64	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10 15 10	00 00 00 00 00 00 00 00 00 00 00 00	2d do	5 74 6475328575 75 6464	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10 15 10	00 00 00 00 00 00 00 00 00 00 00 00	2d do	5 74 6475328575 75 64647	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10 15 10 25 15	00 00 00 00 00 00 00 00 00 00 00 00	2d do	5 74 6475328575 75 6464	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do Best castings for general machinery. 2d do Best cast wheel, spur or hevel, not less than 50 lbs. weight 2d do Best castings for railways, railroad cars and locomotives, assortment of 2d do Best hand power weaving loom 2d do Best edge tools, an assortment 2d do Best engine, steam, stationary, of one to four horse power, in operation 2d do Best engine, steam, stationary, five horse power and upwards, in operation 2d do Best engine, hot air, one to four horse porse power, in operation on the ground 2d do	10 6 8 5 12 7 6 4 15 10 15 10 25 15 10	00 00 00 00 00 00 00 00 00 00 00 00 00	2d do	5 74 6475328575 75 646475	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10 15 10 25 10 5	00 00 00 00 00 00 00 00 00 00 00 00	2d do	5 74 6475328575 75 646475 7	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10 15 10 25 10 5 3	00 00 00 00 00 00 00 00 00 00 00 00 00	2d do	5 74 6475328575 75 646475 75	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10 15 10 25 15 10 5 4 4 15 10 5 4 4 10 10 10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 00 00 00 00 00	2d do	5 74 6475328575 75 646475 7564	00 00 00 00 00 00 00 00 00 00 00 00 00
The second secon	2d do	10 6 8 5 12 7 6 4 15 10 15 10 5 3 6 6 4 3	00 00 00 00 00 00 00 00 00 00 00 00 00	2d do	5 74 6475328575 75 646475 75646	00 00 00 00 00 00 00 00 00 00 00 00 00

15. Best plumber's work, an assortment 6 00	12. Best croches basket 2 6
2d do	2d do169
16. Best serews and bods, an assortment 6 00 do 4 00	13. Best fruit basket 2 (a) 2 d do
17. Best sheet brass work, an assortment 7 00	14. Best hand basket 2 (4)
2d do 5 00	2d do 1 (i
18. Best tinsmith's work, an assortment 6 00	15. Best mocassins, one pair of plain 2 %
2d do	2d do
assortment of	or porcupine quills, one pair 3 %
2d do	2d do 26
20. Best wire work, an assortment 6 00 do	17. Extra entries.
Stoves.	CLASS XLVIII.—MUSICAL INSTRUMENTS. 1. Best harmonium
	2d do 6 @
21. Best cooking stove, for wood	2. Best melodeon 6 by
22. Pest cooking stove, for coal 6 00	2d do
2d do 4 00	3. Best organ, Church 20 1/2 (6
23. B st furniture for cooking stove, one sett 4 00	4. Best piaifo, square
sett	2d · do 10 @
24. Best hall stove, for wood 5 00	5. Best piano, grand 15 & 2d do. 10 @
2d do 3 00	2d do. 10 @ 6. Best piano, cottage 10 @
25. Best hall store, for coal	2d do 6#
26. Best parlour stove, for wood 5 00	7. Best violin 36
2d do	2d do
27. Best parlour stove. for coal 5 00 2d do 3 00	2d do2t
28. Best parlour grate 5 00	9. Extra entries.
2d do	Sect. CLASS XLIX.—NATURAL HISTORY 1. Best Collection of Stuffed Buds
29. Best parlour fire place complete, including setting of grate so as to	of Canada, classified and common
economise fuel; and arrangement	and technical names attached \$8 (
for ventilating room	2d do
2d do 4 00 30 Extra entries.	stuffed or preserved in spirits, and
CLASS XIVIIMISCELLANEOUS, INCLUDING POT-	common and technical names at-
TERY AND INDIAN WORK.	tached
Miscellaneous.	3. Best collection of Native Insects,
1. Best artificial leg 6 00	classified, and common and tech-
2. Best artificial arm 6 00	ical names attached 8(
3. Best brushes, a rassortment	2d do
4. Best model of a steam vessel 6 00	ada, stuffed or preserved in spirits,
2d do	classified, and common and tech-
5. Best model of a sailing vessel 6 00 2d do 4 00	mcal names attached, a collection 80
Pottery.	5. Best collection of Minerals of Can-
6. Best filterer for water 3 00	ada, named and classified 81
2d· do 2 00	2d do 5:
7. Best pottery, an assortment 8 00	6. Best collection of Native Plants, arranged in their natural families,
2d do	and named 8
sortment of sizes 10 00	2d do 5
2d do 6 00	7. Best stuffed Birds and Animals of any country, collection of \$
9. Best stoneware, an assortment 10 00 2d 6 00	2d do 5
2d do 6 00 10. Best slates for roofing 8 00	8. Best collection of the Woods of
2d do 5 00	Canada, in boards two feet long,
Indian Work.	one side polished; also a portion of the tree cut in sections, show-
11. Best buckskin mittens, one pair 2 00	ing the bark 8
2d do 1 00	2d do 5

9. Extra entries	13. Dest Saddle, Ladies' quitted safe 6 00
CLASS L.—PAPER, PRINTING, BOOKBINDING, AND TYPE.	2d do
1. Rest Bookbinding (blank book), as-	15. Best Saddle, Gentlemen's plain
sortment of	shaftoe
2. Best Bookbinding (letter-press), as-	16. Best Trunks, an assortment 5 00
sortment of	2d do
2d do	an assortment
2d do 3 00	2d do 3 00
4. Letter press Printing, ornamental. 5 00	18. Whips and Thongs, an assortment. 6 00 do
5. Paper hangings (Canadian paper),	Leather.
one dozen rolls, assorted 6 00 2d do	19. Best Belt Leather, 30lbs 3 00
6. Best Papers-Printing, Writing,	2d do 2 00
and Wrapping, one ream of each. 6 00 2d do 4 00	20. Pest brown Strap and Pridle, one
7. Best Papers—Blot ing and Colored,	side of each 3 00 2d do 2 00
one ream of each	21. Best Carriage cover, two skins 3 00
2d do	2d do 2 00 22. Best Deer Skins, dressed 2 00
assortment 6 00	2d do 1 00
2d do	23. Best Harness Leather, two sides. 3 00 2d do 2 00
2d do 4 00	24. Best Hog skins, for saddles, three. 4 00
0. Extra Entries	2d do 3 00 25. Best Patent Leather, for carriage
ASS LI.—SADDLE, ENGINE HOSE, AND TRUNK	or harness work, 20 feet 6 00
MAKERS' WORK, AND LEATHER.	2d do 4 00
Saddlery, &c.	26. Best Skirting for Saddles, two sides 4 00 2d do
1. Best Engine Hose and Joints, 23 inches diameter, 50 feet of copper	27. Extra entries.
rivetted 6 00	CLASS LIL.—SHOE AND BOOT MAKERS' WORK,
2d do 4 00 2. Best flarness, set of double carriage 8 00	LEATHER, &c.
2d do 5 00	Boots, &c.
3. Best Harness, set of single carriage 6 00 2d do 4 00	1. Best Boots, Ladies', an assortment. 7 00
4. Best Harness, set of team 5 00	2d do
2d do 3 00	assortment 7 00
5. Best Harness, set of Express 5 00 2d do 3 00	2d do
J. Horse Collars, an assortment 3 00	2d do 3 00
2d do	4. Best Boot and Shoemakers' Tools,
riage or gig	an assortment
2d do 2 00	5. Boot and Shoemakers' Lasts and
Best Hames, three pairs of iron cased	Trees, an assortment 8 00
team or cart 3 00 2 d 2 00	6. Best Shoemakers' Pegs, an assort-
. Best Hames, six pairs of wooden	ment 4 00
team 3 00	2d do 3 00
Best India rubber belting, Engine	7. Best Shoes, India Rubber, an assort- ment 6 00
Hose. &c., an assortment 6 00	ment
2d do 4 00 Best Leather Leggius for Volun-	Leather.
teers 3 00	8. Best Calf Skins 3 00
2d do 2 00 (2d do 2 no
Best Saddle, Ladies' full quilted. 8 00 2d do 5 00	9. Best Calf Skins; grained 3 00
2d do 5 00	2d do 2 00

10. Best Calf Skins, two morroco 3 00	· · · · · · · · · · · · · · · · · · ·
2d do 2 00 11. Best Cordovan, two skins of 3 00	17. Best Fur Cap and Gloves 4 0
2d do	
2d do	and raccoon (an assortment) 500
2d do 2 00	19. Best Gloves and mits of any leather,
14. Best Kip Skins, grained	an assortment4 @ 2d do3 @
15. Best Linings, six skins, 3 00	20. Best Horse Blankets, two pairs 500
16. Best Patent Leather for bootmakers,	21 Best Kersey for horse clothing, one
20 feet	piece 5 00 2d do 3 00
17. Sheep Skins six colored 3 00	22. Best Linen Goods, one piece 5 0
2d do 2 00 18. Best Sole Leather, two sides 3 00	2d do 300 23. Best Oxford Grey Cloth, one piece 5 ro
2d do 2 00 19. Best Upper Leather, two sides 3 00	2d do 3 M 24. Best Overcoat of Canadian cloth 4 W
2d do 2 ou	2d . do 3 00
20. Best Upper Leather, grained, two sides	25. Best Satinet, black, one piece 6 @ do 4 @
2d do 2 00	26. Best Satinet, mixed one piece 500 do 300
21. Extra entries.	27. Best Sheep Skin Mats, dressed and
CLASS LIII.—WOOLLEN, FLAN, AND COTTON GOODS; AND FURS AND WEARING APPAREL.	colored, an assortment 6 % 2d do 4 %
1. Best Bags, from flax or hemp, the	28. Best Shirts, factory made, 3 each
growth of Canada, one dozen 5 00 2d 4 00	2d do 3 tf
2. Best Bags, one dozen cotton 4 00	29. Best Silk and Felt Hats 50 do 36
3. Best Blankets, woollen, one pair 6 00	30. Best Stockings and Socks, factory
2d do	made, woollen, three pairs of each 46, 2d do 20
2d do 3 00	31. Best Stockings and Socks, factory made, mixed woollen and cotton
2d do 5 00	three pairs of each
6. Best Carpet, woollen stair, one piece. 6 00 do do 4 00	32. Best Suit of cloths of Canadian cloth 86
7. Best Cassimere cloth, from Merino	2d do
wool, one piece	2a do 4 (
8. Best Cloth, fulled, one piece 6 00 2d 4 00	34. Best Tweed, Summer, one piece 66 2d do 46
9. Best Cloth, broad, one piece 6 00	35. Best Twine, linen and cotton, an as-
2d do	2d do 2 t
2d do	36. Best Winsey, checked, one piece 56
adian flax or hemp, assortment of 10 00	37. Best woollen Cloths, Tweeds, &c.,
2d do 6 00 12. Best Check for horse collars, one	an assortment 10 t 2d do 6t
piece 4 00 2d do 3 00	38. Best woollen Shawls. Stockings,
18. Best Drawers, factory made, woollen,	Drawers, Shirts, and Mits, an assortment.
one pair	2d do 61
4. Best Flannel, factory made, one piece 5 00	39. Best Yain, white and dyed, one pound of each 21
2d do 3 00 15. Best Flannel, not factory made, one	2d do1t
piece 5 00 l	ing, one pound 21
· 2d do 3 00	2d · do 11

41. Best Yarn, cotton, two pounds.... 2 00 do 1 00

42. Extra entries.

CLASS LIV -FOREIGN MANUFACTURES.

Foreign Articles will be admitted for exhibition only; but Certificates will be awarded to any article of worth or peculiar ment

GUELPH MAY FAIR.—It has got to be almost a proverb in town that May Fair never passes without a storm of some kind. This year was no exception to the rule for on Tuesday it mowed and rained without intermission and on Wednesday it was cold and bleak with sleety showers in the morning. It was therefore a poor fair in point of numbers, though, as might be expected from the small turn out of cattle, prices were good. About 120 were entered at the gate, some of them in prime condition, others only passable. Several yoke of good working oxen were brought in, and a few changed hands. Geo Hood bought from Mr. Evan Macdonald a steer for \$55; Mr. John Laidlaw sold to Lemon 2 cows for \$80 Mr. Jas. Laidlaw to the same 2 three year old steers for \$95; Mr has Elliott 2 heifers to the same for \$84.50. Mr. Jas. Hasson to the same 8 head for \$460; Mr. Wilson 1 steer to Wald for \$50. Mr. Geo Hood bought 80 head of cattle from Mr. David Allan, but we did not learn the price. John West bought a cow for \$16, a cow and heifer for \$54. He sold three head for \$100, lyoke of oxen for \$100 and one steer for \$34. Mr. Tyson bought 2 from Mr. W. Jackson, Paisley Block \$94, 3 from Alex Mackie for \$100, 1 from Abram Wright, Jr. for \$33, one from Mr. Clements, Guelph, for \$34, one from Ir Newman, Pilkington, for \$25. He sold to Lemon 7 head for \$307.50 .- Prices were genrally very good, one cow being sold by Mr. Peters, Eramosa, for \$5 a hundred live weight. Feers, Eramosa, for \$5 a hundred live weight. The average price would be from \$4 to \$4.50 hundred. Mr. Alexander of Eramosa, sold me yoke of oxen for \$100. Five car loads of attle went off by the Grand Trunk on Wednesdar night, and a large drove was shipped on hursday morning. The Fair at Elora was our, the day being so bad. Good prices were aid however and quite a lot of cattle were much down by the drovers. The turn out of cople was better than might have been expectd, though far short of what it would have been, ad the weather been fine. Several agricultud implements were exhibited, chief among hem being Cosset's Buck eye reaper and mow-, and a sample of the same machines from familton, Ackerman's and Thain's washing mahines. Thain's new churn, which is on the lever inciple, and Ackerman's churn which can be lorked by dog power.

THE HORSE SHOW.

The show of stallions took place about 2 clock on the Fair ground. Entries were

made by the following proprietors of horses. R. Adams, Acton, Geo. Jefferson, Amaranth, Neil, McPhatter, Puslinch, Thos. Dunn, do., D. McTavish, Nassagaweya, P. Murphy, Guelph R. S. Geddes, Weston, John Hewer, Guelph, N. Davis, do., Alex. McBain, Beverley. W. Sallows, Guelph, Jos Black, Fergus. The Judges were Messrs Geo. Murton, Thos. Hood, Jas. Cowan, Jas. Laidlaw, and Henry Smith. After a careful examination of the different animals the Judge awarded the prize of \$40 to the stallion owned by D. McTavish, Nassagaweya.—Wellington Mercury.

FLAX SCUTCHING —. The Flax machines lately invented in New England are sold at \$350, and will scutch from 2000 to 2500 lbs. of flax straw per day of 10 hours.

A new machine for scutching has recently been invented by Messrs. Mallory & Sanford, corner of Center and White Streets, New York, which is said to have been used in the flax mill at Union Village, Rensellaer Co., N. Y., with the following results:

"500 lbs, of flax straw gave 1101 lbs, dressed

flax, 16 lbs. fine tow."

From this result a ton of straw, the ordinary produce of an acre in this country, will give 442 lbs. of dressed flax. worth \$110,50 at present prices, besides tow. The expense of scutching a ton, to the owner of a machine run by water nower, is only the wages of two men for a day. —Rural New Yorker.

Korticulture.

TORONTO GARDENERS' IMPROVE-MENT SOCIETY.

The Monthly Meeting of this Society was held in the Agricultural Hall, on the evening of April 20th. Present: Messrs. J. Fleming, Chairman; J. Gray, G. Vair, S. Ashby, C. W. Lawton, E. Townsend, C. Young, E. Lewis. S. Turner, J. Monaghan, and J. Forsyth.

The subject discussed was the pot culture of

the grape vine.

Mr. Lawton, in introducing the subject, said, for pot culture, the vines ought to be raised from eyes, which may be had of well ripened wood of the previous year, cut in lengths of 3 inches, and struck in a propagating pan, placed in a good heat. When well rooted, he would put them in pint pots, and keep them growing as strong as possible, shifting them into eight-inch pots, and from that into ten-inch, which would be the last shift for the season. The soil he would recommend, would be a rich turfy loam or sod, with a mixture of well-decomposed manure, charcoal, and hone-dust The following year, which would be the season for fruiting, he would re-pot, without shaking the ball, or

disturbing the roots, into 12 or 15 inch pots, and water occasionally with manure water, until the fruit is swelled, avoiding, if possible, growing them under other vines. Regular attention to watering and good dramaze, he considered very important to success. He would raise a fresh stock every year, and fruit but one season. When growing, it is necessary to keep the house as close as practicable, avoiding, especially, drafts of cold air. He believed the pot culture of the vine to be equally as profitable as any other method.

Mr. Ashby remarked that he thought it would be better to have the vines established in the fruiting pots the first season. To re-pot them, the year of finiting, he considered opposed to the popular theory relative to the pot culture of other orchard trees, which are admitted to fruit best when the pots are full of roots.

Mr. Gray recommended propagating from Layers, as an easier, quicker, and cheaper method of obtaining plants, which is often an object in Canada with amateurs and others, who may not have all desired conveniences at their command. If the operation of layering is successfully performed about the month of June, they will be well rooted and fit for separation from the parent stem in five weeks from the time of layering. The plants would be strong, and little difficulty could be had in getting the wood well ripened. He (Mr. G.) believed that many would be successful with 1-yers who would fail in producing good plants from eyes.

Mr. Townsend, who has had some experience in fruiting the vine in pots, gave a state nent of his general treatment, and attendant success He struck the vine from single eyes, in bottom heat, in the month of February, using, in potting, a rich soil, but no manure, growing them in open spaces between other vines in the grapery. He had them shifted into the fruiting pots, which was half bushel size, in the moath of July. When well established, and had attained a good growth, he exposed them on a south wall, where the wood hadened and ripened nicely, before severe frosts in the Fall. In praning, he cut them back to six or eight feet, according to strengths, and trained them round three stakes, placed in a triangular form, in the pot. started the second or fruiting season, he fed them well with liquid manures - Bleven vines, thus treated, showed 170 bunches of fruit, ; those he reduced to 70. One of nine bunches grown on the Victoria Hamburgh weighed 2th 13oz. This variety he considered one of the best for pot culture. The Black Hamburgh and Black Spanish he had also found to be good varieties for this purpose.

Mr. Young believed the system of propagating by eyes far preferable to that of layers. If struck in a hot bed, where that is practicable, in the month of February, they will do well. His system is to strike in pure sand, and move them first into pint pots; from that to half-gallons,

and then into the fruiting pots, which, if so treated, may be done in the month of May.

THE CULTURE OF HYBRID PERPETUAL ROSES.

Mr. J. Gray read a paper upon the subject which will be resumed at next monthly meeting. Also, the successful raising of cauliflowers.

After which the meeting adjourned.

J. Forsyth, Sec.

FRUIT PLANTING.

To the Editor of the Agriculturist.-Sir: As the season for planting trees is a proaching, it may not be amiss for farmers, a thise who have experience in fruit culture, t make the results of their experience known t each other, through your valuable Journal A large number of fine trees, chiefly from the Hamilton Nurseries, were planted out in the vicinity last Spring, I planted about thin App]2, Plum, Pear, &c. They all grew we except three Apple trees, which had no appear ance of putting forth buds, though they we watered and treated in the same way as the others. Hearing my brother say that he b one in a similar state last year, which he rais and planted again in the same place, though a different position, and it grew well afterward I thought I could loose nothing by trying t experiment. I first took up one, and water it well in putting it in again, and in a few da it put forth buds; and in a week the least were partly spread out, though the others whi had not been moved, were apparently, alm dead. I then moved the others, and in a we they were also putting forth leaves, and in ak weeks could not be distinguished from the other Probably in putting them in again they we turned round to a different position; then I did not pay particular attention to this would like, Sir, to hear from you or some your correspondents, the cause of the above

Yours truly,

JAMES TISDALE

Wawanosh, April, 14th, 1863.

P. S. I may just say that the spring has a opened up here. On the 11th inst., by the is through the day and the very heavy rain in tevening, the snow that remained in the is disappeared; and people are now plowing Some are yet busy in the manufacture of Manugar. The season for this branch of indus has not been very favourable.

[The above letter came to hand too late: our last number. Ens.]

THE STRAWBERRIES IN SESSIO.

To the Editor.—It was my good fortune happen unexpectedly upon the unique galling of many varieties of strawberries, and

satch with deep interest this singularly control and instructive affair.

Yours, Reporter.

On May day, in a quiet glade, on the southm side of the New Forest, the strawberries cording to previous decision, held their angal assembly. Its purpose was to compare tes, and to receive suggestions for the proceed of the general good. The attendance as large. I note particularly Triomphe de and Jenny Lind, Sir Harry, Hovey, McAvoy sorth's Prolific. By previous order Triomphe agand presided.

He addressed the meeting, to the fellowing fleet. My friends, by your good will I fi'l he chair at this our annual meeting, an hon-I duly appreciate. We are here to learn with what success we have weathered the winry season, and what are the pro-pects of idding a good supply of our delicious fruit he coming summer. I congratulate you by friends, upon the evidences of health and gor I see around me. The verdure of your aves and plumpness of your crowns shew ufficiently that you have borne uninjured the ring posts. No former meeting has been so umerously attended—none so promising. iss however the presence of one, who was ith us on several former occasions. iend Hooker is not here, and lest his absence by give rise to sinister suggestions, I beg ave to say, that from good authority I have that the wintry cold has almost destroyed is vitality. His physicians are of opinion hat an instant removal to a more genial clime, all that can save him. You know how evere the winter's cold is here, and none but hawberries of the strongest constitutions can rvive it. We ought my friends indeed to totest against being left in a state of nakedas we generally are, to rough it as best emay. I would suggest the passing unanijously of a strongly worded resolution against as practice. Why even a thin blanket, in wshape of a light covering of cut straw, or aves would be to us most acceptable, (Hear, ear), and it is certain that without it we must bring forth a full cup. The best cultitors, who are ready to acknowledge how ountifully we repay any like kindness or atation, do not think of exposing us unclothed every blast of an hyperborean winter. bey could not be so barbarous. But I will ot just now occupy your attention. Mr. Albany Seedling, rose, and said,—Mr.

at. Albany Seeding, rose, and said,—Afr.

Resident, before proceeding to the ordinary

winess of the session, I rise to a point of

fer. We must have regard to our dignity.

ad I hold it is unseemly for one of the male

as, to adopt a female cognomen. Jenny Lind

known to be of the harsher sex, yet he calls

aself, by a female name. This sort of thing

ould be put down; it causes confusion in

as minds. As to what you have said about

covering, I agree. My constitution is supremely hardy, people even say, slanderously of course, sour, yet I would not object to a little shelter. I should feel the better for it, and

my fruit would be larger.

Madame Hovey, followed, - Mr. Chair man, I was very sorry to hear, the remarks of my much respected friend who has just ceased utterance upon my dear companion Jenny Lind. He is not at all to blame, it is not his foult if he is miscalled, the choice was not his. It is indeed a misfortune that so young, vigorous and hand-ome a gentleman should be nick named. He is so energetic, hardy, beautiful, productive that I shall like him under any name. Mr. Chairman-I am an old settler, years before your advent to this land-25 years ago I was born A long time sir for a strawberryequal to centuries in other existences. And I have maintained my position in the first rank, being equal to any when properly treated. In size, beauty, excellence, productiveness, and vigor, second to none. The only one indeed on which you can rely for a full market crop. But then sir, I am often grossly abused. Other and inferior kinds are often called by my name. Of course their crop is light, and I am blamed. Again, I am frequently com-pelled to dwell alone. Now Sir, let men praise as they like a solitary, and hermit like life, it does not suit me. Society is essential to my welfare, I cannot thrive well without it. This is the only disadvantage under which I labor, if indeed it be a disadvantage. No one can hope to combine in himself all good qualities. Providence does not thus distribute its bounties. In the society of others I am cheerful and 7igorous, I am no misanthrope. Let Mr. Albany Seedling, or Jenny Lind, or perhaps best of all Boston Pine, grow with me side by side, and I will shew what a good crop of fruit is, and what is so seldom seen. Sir, I am, under good and suitable treatment, immensely prolific. Let what I have now said be remembered.

McAvoy Superior, in evident haste rose, and said, (she had a slight defect in her speech)-Mr. Pres-president, I protest against the self-self laudation of Mistress Ho-Hovey. Why do these old dames put-put on such airs. It is to co-coquette with the gentlemen, (cries of order, amidst a general rustling of leaves). She is old, sne-shellooks wrinkled (fie, fie, oh!) Well, I will say no-no-more on this point. But I pro-protest against such a jing jinglingjumbling of terms as we now-now hear. Instead of plain male and fe female plants, we hear, Stam-Staminates, Her-Hermaph-Hermaphrodites, and Pis-Pis Pistileate plants. No wonder simple folks are discouraged. It should be stop-stop-stopped.

Mr. Jenny Lind succeeded.—It is time Mr. Chairman that I spoke for myself. As to my name, none can regret it more than I do, but

the dolt with whom I first saw the light knew no better. Doubtless a little jealousy gave rise to Albany Seedling's remarks. It will be acknowledged on all hands, that I have several very good points. I am very early, rather large, light bright scarlet, beautiful good flavor, and productive. Perhaps the feminine grace and beauty of my neck had something to do with giving me a feminine name. It will be acknowledged too that I am an excellet fertilizer of other plants. Mistress Hovey, and Burr's New Pine, could testify to this. As it would not be modest for one so young to take up the time of this great assemblage, I will say no more.

The President having risen, observed,-It has been suggested to me, that as the hour is so late, it would be better, if instead of each one speaking, I would as fairly as possible, say a few words. I do so with pleasure. You, my friends, are all aware that I am not a na-I was brought from Belgium, but this As to soil I am not climate suits me well. particular, but I am so us to the mode of cul-I and nearly all foreign strawberries need a different treatment to that which they require who are native, to the manner born. We require to be cultivated in hills-and few are aware of the reason why. Now the true cause is that we for the most part have an entirely different habit, possessing the capacity of forming an abundance of offshoots or crowns, which swell up, make new roots, and when the runners are checked become as it were a dozen plants in one, every crown throwing up one or more fruit stems. It is They do different with most of the natives. not succeed well under the treatment of the English varieties. If grown in hills, and the runners clipped, the plants do not extend by offshoots readily, the old plant becomes stumpy, and the result is rather a scanty sup-The Hovey's Seedling is ply of fruit stems. Grown in hills it fails. of this character. The plants do not extend by offshoots or form numerous crowns. Yet cultivated in beds it will give a very large crop. The Austin Seedling is like it, so is McAvoy Superior.

Something has been said about fertilization, and this too is all important to some—to the Hovey particularly—and lastly with regard to the soil. This has a material effect. All the English sorts like a heavy, stiff, even clayey loam, on rather a dry subsoil, otherwise they winter badly, while the American kinds will produce best in lighter earths. I shall now close my remarks, and this meeting together, by the introduction of some important strangers:—

The Empress Eugente. A remarkable strawberry, was awarded the first prize at the Great Show at the Crystal Palace in 1860. Fruit of a deep rich red, sweet and good, of the largest size, often weighing two ounces. La Constante. A French strawberry. One of the largest, most beautiful and productive varieties yet introduced.

Wonderful. Fruit very large, and irregular form. Flesh, white, firm, sweet, perfumed and delicious. Continues long in bearing.

May, 1863.

PEACH TREES.

To the Editor.—Will you allow me to call attention to the peach. In many parts of the Province where no attempt is made to produce this delicions fruit it could very well be grown with a little extra care. I have by pinching kept two trees so small, as to be able to cover them with a large barrel, and they have endured the cold without injury. Let it be remembered that it is not the cold, however severe, which destroys the tree, but a warm sun shining on it, while yet frozen. I have had trees bear cold so low as 33 below zero, without injury, on the north-western side of building. Yours, C.

May, 1863.

CULTIVATION OF HERBS.

How is it that so little attention is given to these useful, pleasing, fragrant plants by thos who labor to have a good garden. That the are generally everlooked we well know. Ther is no difficulty in their cultivation. The Dil. the Rue, the Lemon Thyme, the Rosemary an others may be grown with little trouble. Th wicked King Ahab coveted the vineyard o Naboth that he might have it for a garden 6 Without desiring any approach to th unlawfulness of his wish, may we not thin that you, reader, would be the better posses. ing, if not a garden, some little nook or corner the garden sacred, to these unpretending be not unprofitable little affairs. If you dout their utility and beauty, enquire of some of dame, who for years has tested their exce She will tell you how good they a lence. for many ordinary ailments, and how nece sary to flavor and garnish many a dish for the For the nursery and for the kitch. they are alike useful. Some are annual, other biennial and perennial, and the seed is easily had at almost any seedsman's store. advice, reader, and grow them, and you w cease to regard them as unworthy of notice and mayhap in time learn to esteem them. valuable as many an occupant of the gay. parterre.

May, 1863.

Veterinary Department.

TERTIGO OR GIDDINESS IN SHEEP.

M. Reynal considers vertigo a disease of the grous system occasioned by a worm—the carbries cerebralis, (located in the brain) belong-

tro the hydatid family.

Lambs, from the age of two months, or from arto twelve months, become the subjects of and it rarely effects them after the age of Enteen months. The disease is apt to end in gophy—wasting of the brain and spinal mar

In the rank of principal causes he places, first "Hereditariness." Secondly—" Intercourse tween the sexes too prematurely, especially temployment of a ram for tupping, not more ansix or eight months old as is the practice ome parts of the country.

the breeding fold both males and females that we shown any signs of the disorder, and not red from the ewes under the age of thirty saths, nor from rams until they have attained

ersecond year."

And if there be any binding conclusions to be son from the influence of a first foundation or asary ones, we ought to put away from the k females who, though in apparent health mselves, have once produced diseased stock. unslutions from the French, by W. Perall.

INSEED-TEA FOR SICK HORSES.

Linseed-tea is not only a valuable restorative sak horses, but it is exceedingly useful in sof inflammation of the membranes pecato the organs of respiration and digestion; stields and lubricates the same; tranquilthe irritable state of the parts, and favors thy action. We have prescribed linseed-tea age quantities during the past month, for as labouring under the prevailing influenza, seemed to derive much benefit from it, and rally drank it with avidity. Aside from the th we derived from the action of mucilage oil, which the seed contains, its nutritive tents are of some account, especially when a to animals laboring under soreness in the s of deglutition, which incapacitates them iswallowing more solid food. In the event ranimal becoming prostrated by inability sticate or swallow more food, Imseed-tea be resorted to, and in cases of irritable the addition of a little honey, makes it more useful. In the latter form, it may be to animals laboring under acute or chronease of the urinery apparatus, more especof the kidneys.

Prepare Linsced-Tea .- Put a couple of alls of the seed into a bucket, and pour a and a half of boiling water upon it. Cover it up a short time, then add a couple of quarts of cold water, when it will be fit for use –Prairie Farmer.

Miscellancous.

NATURAL HISTORY IN HOME EDUCATION.

(From the Museum.)

But an intelligent parent might admit all these inferences, and might yet fairly ask, "Supposing that my child liked these studies, what good would they do him?" In other words, what are the results they might be

expected to produce?

The first and most obvious is, that the bodily organs, by means of which we take cognizance of eternal objects, are trained to To Guard against the Disease.—" Put out habits of activity, promptitude, and correctness. It is to these Mr. Wyse refers in his work on education reform, where he urges that they should, "as early as possible, be prepared for use. If not, when wanted, they will be found rusty or blunt. The education of the senses neglected, all after education partakes of a drowsiness, a haziness, an insufficiency which it is impossible to cure. Educated well, they give to all knowledge and virtue a positiveness, a firmness, a vivid freshness, such as makes the difference between waking and a dream."

The second effect is the training of the perceptive faculties, by the aid of which we are enabled to compare, examine, and discriminate. The mental powers, no less than the muscles of the body, require to be exercised, otherwise they become feeble and languia; habituated to activity, they are at all time vigorous and fit for service. The faculty which natural history pursuits bring into play, are not those which are called into action in the old routine of school It is the more desirable, therefore, education. that they should be systematically exercised, and brought into full and healthy action. It this be not done, if any portion of the mental constitution be allowed, through inaction, to lapse into feebleness, the whose mind is injureed, the healthy action of all its powers is precluded.

From the combined action of the bodily senses and the mental faculties, comes the acquisition of knowledge. In the case of children, the amount of such knowledge is small, but it is good so far as it goes, and it prepares the way for better. It does not consist of hard names but of facts connected with the history, powers, properties, uses, or peculiarities of the plant or animal. Such knowledge is imbibed with pleasure and restrained with ease. Thus, for example, if children be taken in the month of June to some woody spot, when the woodroof or woodruffe, is in blossom, make them observe its snowy petais, and its whorl of bright green leaves, tell them the old rhyme which embodies the autiquated manner of spelling the name, and gather a few of the biossoms, that they may, after becoming withered, emit their delightful fragrance. Let this be done, and three children out of four will remember the flower, call to mind its perfane and, on the next opportunity, will seek to call it, and to bring it home.

If we, in our intercourse with children, be content to communicate knowledge on one subject only at one time, and to make that clear, distinct, and intelligible, much will be gradually and insensibly acquired, and each little walk will become the medium of instruction, imparted without Libour, and imbibed without irksome-Of the good effects of such rambles, I may venture to speak from my own experience. My children at times asked permission to bring with them some of their little playfellows; and thus it has often happened, that a very useful! assemblage of interregators bore me company! on the sea shore, or in the little glens of a coun try excursio . Their questions I was often unable to answer, but, still, enough was imparted ! to make all desirous of another ramble, with the sharp look-out for specimens, the merry talk, and ever-varying incidents.

But the good effects of such teaching are not to be measured by the knowledge of actual facts so acquired. When once an interest is excited about the structure or habits of anyl animal or plant, the imagination is roused, and the child regards it with thoughts that are essentially poetic, though they may never find utterance in Thus if the lapwing assume the movements of a wounded bird, to draw the intruder away from her nest; if the young ant east off her transparent wings before entering on her domestic duties; If fragile gelatinous creatures light up the depths of ocean with phosphoric splendour, the mind does not rest on the simple fact, but traces out a thousand fanciful analogies The bright things of earth, and the rich creations of fancy, are associated, and under their retining and elevating influence, the world can ! never appear "a pestilent congregation of vapours." In order to show that I do not overestimate the value of this kind of teaching, I may quote the opinion of Mr. Wyse: "All that can still nourish the heart in the midst of this barrenness; which can still keep the fresh fountains of youth in our withering extisence: which can bring even a portion of its life into our life; and not permit the world, worldly as it is, to be wholly desecrated to our sense; whatever can do this is a great and good gift to any human being, and at no time, and in few countries, greater or better than in our own.

the course of instruction here advocated should not only excite the imagination, it should penetrate the heart. The pleasure with which we contemplate the animal and vegetable world prompts us not wantonly to destroy or to injure that which we admire. A child tends and feeds a caterpillar, watches with amazement its transformations, and naturally feels reluctant to de-

stroy a creature so wonderful. The same feeling is at work with regard to other tribes, and thus practically enforces the duty of—humanity to animals.

From habitually beholding the wonders of ani I mal and vegetable life, from having them 23. sociated with pure and glowing thoughts, and with feelings of humanity towards all the inferior creatures, the mind is easily led to contemplate them with reference to their Divine Original "The lilies of the field" become in this war vested with new beauties, and even a child 632 understand how true it is "that Soloman Last his glory was not arrayed like one of these," While he lisps the simple prayer, "Give us this day our daily bread," it is not difficult to make the child comprehend that the same beneficen Being he addresses provides, by His good por idence, the food of every creature that has like The child thus instructed can enter in somedgree into the spirit of the passage, "Beholdth towls of the air, for they sow not, neither d they reap, nor gather into barns ; yet your he venly Father feedeth them."-Article: Nat ral History in Home Education.

The Tallow Tree in China.—The talk tree, called by the Chinese, Oo Ricon, is oftheight and appearance of a pear tree, with twiced branches and a large round head. It trunk is short and thick, and the bark smooth The leaves are alternate and resemble the of the black poplar. The blossom is yellow but the most singular part of the tree is a fruit, which is enclosed in a husk like that of chesnut. As the fruit opens the husk opensitself, showing three white grains about burgness of a filbert. These grains contain beautiful vegetable tallow so useful to the Chinese. The fruit of the tallow tree guithrough nearly the same process as the seed the oil-plant.

The machine by which it is bruised const of a wheel moved backward and forward in t trunk of a tree, which is shaped like a can lined with iron, an fixed in the ground. I axis of the wheel is attached to a long po which is laden with a heavy weight and: pended from a horizontal beam. The ben thus bruised and divided are exposed for ac siderable time to the action of steam, u they become very soft, when they are que thrown into layers of straw, covered up as with other layers of strow, and spread about equally as possible. Men do this with the feet; and as the berries are very hot, and course, warily trodden upon, the operabears a striking resemblance to dancing appearance of a number of men gravely carefully evolutions on their toes, has t described as irresistibly ludicrous-particul as it is unaccompanied by music; by this cess large cakes are formed of the mingrains and straw. The cakes thus formed afterwards pressed.

The tallow is hard and white, and has all by properties of that obtained from animals. Three pounds of vegetable oil are mixed with fary ten pounds of the tallow, and a quantity

n wax is used to give it consistence.

The best candles are also coated with wax. properly prepared they burn almost without ar smoke or disagreable smell. It often hapeas that candles prepared with vegetable tilw burn with a great flame, throw out much moke, and consume quickly; but this is atjunted to a slovenly and dirty mode of prearation and to the nature of the wick, which usually made of dry and light wood-not such unlike the wick af a rushlight. Candles ade of this tallow by Europeans have been and very nearly equal to those made of wax. The tallow tree is usually planted in extenre plains and in regular order, the leaves ing either of a deep purple or a brilliant red, d the blossoms of a bright yellow; the conast is said to have a very pleasing effect; and morean travelers have described the groves those trees as the most beautiful objects of Chinese landscape. This tree has now been ccessfully acclimatized in Algeria—it requires care or watering .- Scientific American.

A DIMINUTIVE BREED OF CATTLE.—In the rest of the Secretary of the Massachusetts State and of Agriculture for 1862, Mr. Flint gives efollowing description of the cows of Brittany, povince in the north of France, as observed him at the International Exhibition in Lonalist summer.

"The little Bretaine cows pleased me exceeding. Standing only about three feet high on it legs—the most fashionable height, most of and white, now and then, but rarely, a land white; they are as docile as kittens, allook pretty enough to become the kitchen of the hard pressed mountain or hillside mer, with pastures too short for a grosser mal. Ten pounds of hay will suffice for it limited wants for twenty-four hours, and y would evidently fill a seven quart pail as lek and as long as any other cow."

These pretty cows will often hold out in \$\frac{1}{2}\$, so the herdsmen said, from fifteen to been months after calving, and often begin r the first calf with six or seven quarts a. The horn is fine, not unlike the Jerseys, smaller and tapering off gradually, and the teheon or milk marks of Guenon generally good. Good cows are held from sixty to that of the state of the state of the sixty to the state of the sixty to the sixty to

r. McGruer, of Lrncaster, C. W., sent a of oars to the International Exhibition at sington, and as one direct result of doing so as received an order for 2,000 pairs of oars, shipped on the opening of navigation.

GROWTH OF TIMBER?-It is a singular fact that what were vast treeless prairies in Illinois, twelve years ago, are now covered with a dense growth of thrifty young forest trees, comprising various species of oak, hickory, cottonwood, ash, &c.; so rapid has been this change in many localities, that where some of the early settlers located, twenty to twenty-five years ago. without a tree around them, they can now cut and how good building timber a foot square. Prairie land, when kept from the annual fall burning formerly practiced by the Indians, rapidly produces a growth of trees. Some of the old citizens, who greedily located the timber land when they came to this country, and were careless about acquiring prairie, now find the latetr of more value than the former; their timber bas grown faster than they used it.

What becomes of the Shiven?—It has long been known that vast quantities of silver have for centuries been carried to India, and that there it disappeared out of the circulation of the world like pebbles down a cavern. It is said that in the last twenty five years \$550,000,000 have been sent thither, of which \$450,000,000 have thus disappeared. No probable reason has ever been discovered for this mystery, except the ancient Asiatic custom of burying specie and jewelry in the ground.

EFFECTS OF EATING BETWEEN MEALS .-Among the many slight causes of impaired digestion is to be reckoned the very general dis-regard of eating between meals. The powerful digestion of the growing boy makes light of all such irregularities; but to see adults, and often those by no means in robust health, cating muffins, buttered toast, or bread and butter, a couple of hours after a heavy dinner, is a distressing spectacle to the physiologist. It takes at least four hours to digest a dinner; during that period the stomach should be allowed repose. A little tea or any other liquid is beneficial rather than otherwise,, but solid food is a mere encumbrance. There is no gastric juice ready to digest it; and if any reader, having at all a delicate digestion, will attend to his sensations after eating muffins or toast at tea, unless his dinner has had time to digest, he will need no sentences of explanation to convince him of the serious error prevalent in English families of making tea a light meal, quickly succeeding a substantial dinner. Regularity in the hours of eating is far from necessary; but reglarity of intervals is of primary importance. It matters little at what hour you lunch or dine, provided you allow the proper intervals to elapse between breakfast and luncheon and between luncheon and dinner. What are those intervals? This is a question each must settle for himself. Much depends on the amount eaten at each meal, much also on the rapidity with which each person digests. Less than four hours should never be allowed after a heavy meal of meat. Five hours is about the average for men in active work. But those who dine late—at six or seven,—should never take food again until breakfast next day, unless they have been at the theatre, or dancing, or exerting themselves in Parliament in which case a light supper is requisite.—Lewis's Physiology of Common Life.

Editorial Jotices, &c.

SUPER-PHOSPHATE OF LIME.

We learn that Messrs Fleming & Co., seedsman of this City, have been appointed Agents for Coe's Super Phosphate of Lime, manufactured in Montreal. The testimonials of parties who have used this article, are numerous and satisfactory. Super-Phosphate of line has of late years been very extensively employed as a manure, both for farm and garden crops. Price \$50 per ton, or in single barrels at the same rate.

CORRECTION—BUTTER MAKING.—In the article in our number of April last, on the Canadian Butter Trade, communicated by a correspondent from Leith, Scotland, we find that a typographical error occurred in regard to the quantity of sugar and nitre to be used in Butter curing, which error we now desire to correct.

The proper quantity of salt &c., &c., for every 100 lbs. of fresh butter is as follows; 3½ lbs to 4 lbs of fine grained salt, 6 ounces of fine pounded sugar and 2 oz nitre (well pounded.) These should be minutely mixed together before curing.

THE BRITISH AMERICAN: a monthly Magazine, devoted to Literature, Science and Art, No. 1. Toronto: Rollo & Adam. May 1863.

We have here the first number of a purely Canadian Magazine, which will, judging from the literary execution of its varied articles, not fail, we trust, to gain a respectable standing among similar productions not only on this continent but also in the mother country. Professor Hind is the general editor, and the present number contains two very interesting papers from his able pen; North West British America, and sketches of Indian life, comprising salmon-spearing in Laurador, by torchlight. Among the articles which will be read with more than ordinary interest by Canadians may be mentioned the following: My Cousin Tom; A Sketch from Life, by Mrs. Moodie; Early

Notices of Toronto, by Rev. Dr. Scadding Holiday Musings of a Worker, by Mrs. Holiday Musings of a Worker, by Mrs. Holiwell; Flowers, and their Moral Teachings, the authoress of the "Backwoods of Canada; Insect Life in Canada, by Rev. Charles Bethune, M. A.—with two elaborate article. The Bank of Credit Foncier; and the Po Office and the Railway.

The "getting up" of this number, consists of 112 clearly printed pages, is exceeding creditable, and we trust that the enterprise of receive an amount of public support that we remunerate the proprietor for his necessari heavy outlay, and ensure the continuance of twork, which, if carried on as it is begun, we reflect honor on Canada. All who feel interested in sustaining and diffusing the spirit British institutions, and a native siterature these western parts of the Empire, should a this truly laudable undertaking by at once the coming subscribers. Terms, \$3 per annument of the trade.

EDINBURGE REVIEW, April, 1863.

BLACKWOOD'S MAGAZINE, April 1863: Leona Scott & Co., New York.

We have received, through Mr. Rowsell, this city, the above reprints of these old & brated British periodicals, which, with the Qo terly, Westminster and North British, . Messrs. Scott bring out with great regular and dispatch; and at a price which places the invatuable serials within the reach of all ont. side the Atlantic who feel interested in the p gress of literature, science, and the politics. civilization of the world. The Edinbur contains nine articles, more or less elaborat Kinglake's Invasion of the Crimea; The Bl. Country, (British Coal Fields); India un Canning; The Bible and the Church; Pr Huxley on Man's place in Nature; and Greek Revolution, will be found exceeding interesting to general readers. Blackwood tinues to maintain his undoubted literary ase dancy, and the articles of the current num are of the same high order as usually charac ize this long established and world-renow. Magazine.

THE HORTICULTURIST: Mead & Woodun 37 Park Row, New York.

The May number of this old establis periodical is, as usual, replete with interes

puseful articles on subjects relating to Horlature, and Rural Art and taste. No Hortilarist, professional or amateur, can afford to without it. Price, \$2 per annum.

EGARDENER'S MONTHLY: W.G.P. Brinckle, Pailadelphia, and C. M. Saxton, New York.

This excellent serial continues to pursue the ratenor of its way. The May number concess a variety of papers on subjects of seasonal thest to all lovers of a garden. It has several reliablest to see works withis character so well sustained in the adiang republic in the midst of appalling natural troubles, which, thank God, cannot be to be utifulted to the human heart. Price, \$1 50 a year.

TORONTO MARKET PRICES.

fay 23, 1863.
\$0 85 to \$0 95
80 " 87
60 " 70
55 " 60
45 " 50
56 " 60
5 00 " 6 00
4 00 . 5 00
4 00 : 4 50
50 " 65
1 50 " 1 00
16
15 " 20
12½ " 15
40 " 60
18 00 "23 00
10 00 "15 00
4 50 " 5 00
8 " 9
1 50 " 2 00
30 " 32
3 75 " 4 00
A 00 A 00
95 " 1 00

MOOD STALLION FOR SALE.

OR SALE, a Blood Stallion, "High Flyer" ix years old, bright bay, 15 hands 3½ inchligh, Sire "Sir Tatton Sykes," dam by omonocodrom."

ems cash, or six months' credit on good my.

Apply to

Gro. Corper,

Davenport P. O., near Toronto. such 20th, 1863.

THOROUGH-BRED SHORT HORN FOR SALE.

M ORETON DUKE, got by Mr. Stone's Bull 3rd Grand Duke, 2292, calved 9th June, 1860.

William of Oxford, got by Mr. Stone's Bull 12th Duke of Oxford, calved 19th November 1859.

David, got by Sir Charles, a son of 3rd Grand Duke, calved 1st March 1861.

Marquis of Oxford, get by William of Oxford, calved 20th March 1863.

Warwick, got by Moreton Duke, calved 26th March 1863.

Terms very reasonable.

W. WPLCOCKS BALDWIN.

Larchmere, Oak Ridges.

April, 1863.

THOROUGH BRED STOCK.

THREE yearling Durham Bull two Galloway Bull Calves, two imported Ayrshire Bulls. yearlings, for sale.

GEORGE MILLER,

Markham.

April, 1863.

44.

tf.

THE CANADIAN AGRICULTURIST

AND JOURNAL OF THE

BOARD OF AGRICULTURE'

OF UPPER CANADA.

THIS LONG ESTABLISHED PERIODICAL will for the future, be published Monthly, commencing JANUARY, 1863.

Each number will contain not less than 49

pages, Illustrated by Wood Cuts.

The Horticultural and Veterinary Departments in particular, will be enlarged and improved, and the price reduced, so as encourage the formation of Clubs throughout the country.

TERMS:

Single copies, 50 cents a year.

Five to twenty copies, 10 per cent. discount. Twenty to thirty-five copies, 15 per cent.

Thirty-five to Fifty copies, 20 per cent.

Ffty copies and upwards, 25 per cent discount allowed.

Subscriptions payable always strictly in advance.

EDITORS:

Professor Buckland, University College, Toronto. Hugh C. Thomson, Secretary Board of Agriculture of Upper Canada. Andrew Smith, Licentiate of the Edinburgh Veterinary College and Consulting Surgeon to the Board of Agriculture of Upper Canada.

All orders to be addressed to the Secretary of tne Board of Agriculture, Toronto.

BOARD OF AGRICULTURE OFFICE.

Toronto, December, 1862.

SEED AND IMPLEMENT

WAREHOUSE.

ESTABLISHED, 1836.

THE SUBSCRIBERS beg to inform the Farming Community and the Public generally, that they have now opened their new place of business in the

AGRICULTURAL HALL.

AT THE

COR. OF YONGE AND QUEEN STREETS, Where they will keep an Extensive Stock of

FIELD AND GARDEN SEEDS,

of the best quality; and in connection with their

Wholesale & Retail Seed Business, They will keep in Stock a Large and Varied

Assortment of the most Improved
AGRICULTURAL IMPLEMENTS, HORTI
CULTURAL TOOLS, and USEFUL BOOKS
for FARMERS and GARDENERS.

JAMES FLEMING & CO...

Seedsmen to the Agricultural Association of U. C.
TORONTO, Dec. 16th, 1862.

Agricultural Implements.

One Horse Ploughs\$5 00 to \$ 7.00 each.
Two Horse Ploughs...Nos. 1, 2 & 3 16.50 "
"" iron beam..... 12 00 "
Patterson & Brothers, Manufacturers, Belleville.
"" wood Nos. 4 & 5 .0.00 "
"" "No. 6..... 16.50 "
One Horse Hoes or Cultivators.... 8.00 "
Straw Cutters, for horse or hand

Draining Tools of Superior Quality, Spades, Shoveis, Manure Forks, Potato Forks, Hay Forks, Cradies, Scythes, Snaiths, Iron Rakes, Hoes, Hand and Horse Hay Rakes, &c., &c., &c.

JAMES FLEMING & Co.

TORONTO, Dec. 16th, 1862.

Miscellaneous Articles.

FOR SALE BY
James Fleming & Co.

Rustic Iron Garden Chairs, Plain and Ornamented Flower Pots, Vases, Propagating-Glasses, Fish Globes, Aquariums, Green-house Syringes, Conservatory Pumps, Water-pots with patent brass roses, Fumigators, Saynor's celebrated Pruning and Budding Knives, Bass Mats, Hedge Shears, Transplanting Trowels, Grass Shears with long handles, Thistle Spuds, Fancy Rakes and Hoes, Hatchets, Hammers, Sets of Garden Tools for Boys, Large Pruning Shears, Garden Lines and Reels, Gardener's Gloves &c., &c.

Outcome of this Humber.	
	PAGE
The Provincial Exhibition, 1863	201
Cultivation of Roots and Corn	201
Cultivation of Indian Corn	201
On laving down endows	203
Hemp Essay on Cultivation of	35
Flax Cultu e	20:
The English Seed Trade	· · 210
Rich, lean, juice meat	• • 211
Auxiliary Manues, to obtain speeds action cf	
Transplant ng Tebacco Platts	
Seed Soit, and culture of Sorghum	211
The Laws of Culture, according to Liebig	- 2.0
AGRICULTURAL INTELLIGENCE:	
Rules and Regulations. Provincial Exhibition	:13
Prize List Previncial Exhibition	221
Guelph May Fair	27
Flax Scutching	23
HORTICULTURAL:	
Toronto Gardeners' Improvement Society	. 2
Toronto Gardeners' Improvement Society Fruit Tree Flanting	2º
···· ().	2

Contents of this Number.

Vertigo : or, Guddinness in Sheep 2 Linseed Tea for Sick Horses 2

MISCELLANEOUS :

The Strawberries in Session
Peach T ces.

between Meals..... †
Editorial Notices, Markets, &c.... †

TORONTO NURSERIES.

GEORGE LESLIE, Proprietor,
OFFERS FOR SALE THIS SPRING, a
unusually large and well grown stock of

FRUIT AND ORNAMENTAL TREES.&

Of all sizes and varieties. Grape Vines—all. New, Hardy, and Foreign kinds. Strawber Plants of best sorts, Roses, Hardy Flower Shrubs, Dahlias, all the first prize varieti Herbaceous Plants, &c., &c.

Special attention is called to his imme

stock of .

HEDGE PLANTS

Consisting of Buckthorn, the best of all He Plants, from 1 to 3 years old, cheap. White, Red Cedar, Berberry, Privet, Norway Spruce,

The New Descriptive Priced Catalogie be sent to all applicants enclosing two lastamps to pay postage. Address,

4-2ing.

George Lestin, Leslie P. O., C.

THOROUGH-BRED STOCK FOR SAI

THE SUBSCRIBER OFFERS EOR'S.
three Durham and two Galloway Bulls,
year old; an a few females of the above by
Terms easy.

JOHN SNEL

Edmonton, Feb. 13th, 1863.