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Agricodos? gubus ipna, procut discordibis armis,
Fundit humo facilem tictum justissima tatrus."
Ving. Geo

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## THE PROVINCIAL EXIIBITION I*i*.

This year the lrovincial Exhibition was held on the ground selected by the Agricultural Association of Lower Canada ; and if there was no very marked improvement in the different departments, the entries were more numerous in - ma of those, and there wera instingos of excellence, in the opinion of some, unprecedented.

On Wednesday the grounds at Point St. Charles were opened to privileged jaities. The area contained ample space, and the buildings, so kindly lent by the Grand-Trunk Company, are well suited for the purpoee of an Arts Exbibition afording pefect security against the aceidents of weather. We shall not eate: into the question of eligibility of site, or the adrisability of the erection of vermanent building:. But we have especial pleasure in reading the unvarying ackno. ledgements of all parties, bearing ample testimony to the courteous attenion of the manager. Fispecially on the soth, the second day, the grounds were rowdsh, -a large proportion having come from the Country Districts, and the amiers steadily encreazed throughout the day. The building appropriated to the caduatrial Lixhibition was so crowded, that examining the ohjects of interest wae cut of the question. The Morticultural tent was densely crowded, and along the whole circumference of the live stock pens, a dense mass of spectators fesed without intermision. In the two days between 15,000 and 16,000 ticacts were sold, and paards of 20,0 no persons visited the ground ; and we feas nowed that all who take an interest in the agicultural progress and indusTia. alvancement of our country, and who were amongst the visitors, did notleare the exhibition of this year without feeling gratified with theaboundingevidences he meet with, of the sikill, the intelligence and the industry of the Agriculturists, Manufacturers and Mechanics of lower Canada. This notice will be necessarily brief and general, and snited to the limits of the Journal. The detailed report will be fond in the tramsactions of the Bard of Agriculture.

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\mathrm{Homan}_{\mathrm{R}}
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Iu this department there were the following cutrics: if Stallions; 3l Nares and Foals : 1 ; Fillies; if Draft Horses; 10 Carriage Horses; 12 Saddle Horses. The splendid show of dranght horses were thought to equal, if not excel that of any previous year. The show of carriage and saddle horses was rather deficient, thoagh the specimens exhibited by Jesse Joseph Esq. and Dr. Wojward, Mr. Maurice of St. Lambert, and M. Ogilrie of Lachine, Hon. P. H. Moore, Col. Gugy's Rob, Loijic and Mr. Fnclide Roy's four year old mare Copuctie, of Rob Loyic, were well descrving of commendation. The draft stalBose were of course that of Canadian or the Ulydesdale breeds. The first either Fure, or haring a large admixture oi Canadian blood. It is well known that our aeighbours across the lines buy up all our bost, especially huntiug, carriage ar: salde horses.

## Cattix.

The display of cattle was held to surpass any previous year. The entries were ss follows : of Bulls; 63 Cows; 144 Heifers; 6 Osen ; 10 Steers and 17 Cal. res. The Ayrshire breed, which appears to be best adapted to many districts, was the most prominent. The Durham seems most highly praised in the Townshirs. The Ayrshire breed are ciliefly esteemed for their milking properties. an'? has been sedulously cultivated on our own farm of Milton for :3:" years. The most common colour is red and white in patehes, but never pure white; and ever yellow or dun are surpicious, unless found in the oldest and purest stock.s.

The recoruised points are, a broad short head, homs spreading from the side, a little in front, and thruing upwards, shoulder top sharp, back rather narrow, and rounded over the riki, ribe rather flat, bocks confined, hams thin, tail head somewhat drooping, belly entarged, and legs very short. Now these are all points opposed to a good short hom; and the points on which they agree are a straight back, loose mellow skin, large eye, sharp muzate and small horn. There were also som? good Demen, besides Herfords. For symmetry the sters of the latter breeds are very imitar, in a perfect state to the short horns; and much rivalry at one time existed lotween these breds as feeders ; but the short horns it is believel have eatablished their titie to superionity. The short hom cow is a much better milker, giving milk for a mush longer period. A bright white face is very common in the Hereford breal. white horn- with browniwhed points. The boly either dark or lightyed and white, or a dark chemut hown, which is becoming fashionable. Ilide of addiun thickuess, bandle firm and nellow, hair soft and pleasunt to the feel, skin whe the nos and round the eye of a fine Hesli colour, countenance rather lively thau jhacid, and gat stately. The Devons are a smaller and resy beautifulbred, remark ble for the rich quality of their anill, though it be not very plentiful-Quality of bef excellent. Some beautifal specimens of the latter were shown and on the whe the inerasion semed o be that a sapid improvement was cident in this depariment.

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S_{\text {He: }}
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The show "f stee was large, and the improwement in this dercription was said $t_{0}$ be obvious.
sini.

The shor of swiue was likewise large, and exeblent, and generally less remarkable for size than fatness. An improremotit in this description of stock was akso noticeable.
Pu:mb:

Although the show of toultry wis thi large, some fine specimens of the domentic breeds were exhibited, and it is to be hoped that another scason may witness more numerous contributions in this deparment.

The assemblage of the agricultural productions of field and dairy was not remarkable for abunlance; though some gool specimens of linseed, grass-seed peas, beans, oats, and fair wheat were fixhihited. hidian corn aloo fair. The Dainy produce was not surerescelent.
Homernmene Dipamanve.

Although thisfeature of the lixhihitionwas thought by some tole not so successfill as on some past occasions, still the garden produce in fruits and flowers was rich in fine specimens. The grapes wére admirable, out door peaches excellent, apples very good, some fine specimens of pears, with valuable plums, and water and musk mellous. The Island of Montreal is well known to excel almost every other locality, in its growth of apples. The collection f Fxotics was very beautifully arranged, aud contained many rare and beautiful specimens. The season was rather late for flowere ; neverthelese the show of Dahlias, Cockscombs, Ma:ygolds, China Asiers, Pansies, \&e., was choice, in many respects, and beautifal.

The show of vegetables-though excelled on previous occasions in many ins-tances-yet contained many fine specimens of Onions, carrots, beets, cauliflowers, broc ${ }^{n}$ li, \&e. \&c. \&c., and on the whole was highly ereditable.

## Dang Pionecs.

Of Butter little offered fit for winter cure. There was but a limited supply ut cheesc.

## Ambermai. Imblemats.

Of Agricultural Implements we remarked a very good assortment, many vaiuable improvements, alld ingenious labour saving machines. On a future occasion we hope to beemabledtochronicle renewedardour, and an extended spirit of generous rivalry in this department. I believe we are right in preparing the Canadian pullic to anticipate many valuable insentions, and improvements agraisct another season.

> Fur coma: Exhmame.

Tais department, although nominally wiler the e ntrol of the Agricultural Asseciation was, on this oreasion, more diretly under the control of the Mechaxise Institute.
The Eshibition was highly regrectable aul creditable, and howed very conNiderable adranes in many of the Meclanical Arts. It would be unfair to particulnrize ; as it would be impossible to do anything like justice to the multitude of deserving exhibitors within our limits. But full justice will be done to all parties, no donbt, is the detailed reports to appear in the Transactions of the Eoard of Agricultive. It w mal have given as great pleasure to have meted oat, with dispassimate liberality, honour to whom honour is so justly due ; but the detats must be reserved for the proseut, and shall appear elsewhere.
Oa We lueday, the Ragata being herel, eratel unch excitement. It came fe with great mat, with six and fome ored gig-, four oared thips jolly boats, sisiffs with one and two prirs of semll, bark eanoes padaled by white men and Indiaus; and we hope it may be repeated ou a yet larger scale next September. Then the interesting military curem ny of trooping. Her Majesty: colonrs took phace on the Champ de Mars, and was wituessel by a large number of adjoining pectators. All the movements were executed with bechning precision, as might tave been confilenitly expected.

The Review of the Voluutere firfee on the field to the east of the Exhibition cround was exceedingly creditable, and speaks highly for the training and discipline of this fine body of men, of which the Prorince may be justly proud. We had onr e neert in the evening to wind up the day of enjoyment ; and we feel assured our risitors bade adicu to the city highly gratified with the judicions arrangements wale for their reception and cotertainment.

In conclusion we solicit the specia! atration of the Ayricalturists of Lower Canatia to the folloncing simp'e prartical sumpostions.
While on this subject of exhititions, we would venture to sugge-t, that a very t neficial reform might be wrought, by providing, as nearly as may be, that the 1remiumsshould be offered and a wardedts the individual who will best illustrate the rienns by which we can raise maxinum crops at the least expense, and the principles of producing beef economacally. The mere fact that Mr. so and so has received the first premium for the best buil,--that Mr. so and s, has received the first premium for the best wheat,-and that Mr. so and so has received the first premium for the best nodel farm, and that Mr. so and so has received the first premium for the best crop of any kind, is all very well, so far as it goes. But would it not be of more importauce to the Agriculturist to be informed at sametime, of the best method of realizing his wishes-of the exact means adopted by the suceessful competitors in each clase, $t$, raise and produce such superior specimens. Would it not be a real gain to him to have explained the few secrets of practice-the secrets of skill which are so apparent around him. At
present he roturns home as ignoraut of all this a- ever-he returns home as much in the dark asever - without the acquisition of a single new principle or new approved method to guide him in any department of practical husbandry.

Now we ask should not these Exhibitions become practical schools-superior scho ls of Agriculture? The statements of the Exhibiters-the :wards of the Iudges-and the publle addresses should be the rehicles for conreying to the Agricaltural community such invaluable pactical information so greatly desiderated. At present, the grilden oppertunity is lost to the Agricultural consmunity; whoreas, if such statements were carcfrilly prepared on the ground, by a competent individual or individuak geing round with the judges in confidential communication-if too tronblesone for the judges themselves -by an individual or individuals capable of arranging in systematic order the more valuable details, and at the sume time thoroughly versed in practice-such: a contribution to the science and praction of Agriculture, so prepared, wonld be of such inestimable value, as to justify fully a thorough reform in the conditions and arrangement of the Prenitim lists, and would be hailed as a boon by the practical Farmer-ensure an inmense attendance of the agrieultural body-and teach them to estimate these exhibitions at their true valueregarding them as the best public educators in the practical details of improved Agrienlture. Iet Lover Canada be the first to introduce and perfect this improctel system so cery easy of practical adintion, J. A.

NO PLACE JIKA HOME.
Wa refering to the Cusus of Lower Canada, we find is, 264 set down as farmers, and $6:, 16$ as labourers. But are not all mainly dependent on the saceess of the agricultu ist and lumberer.

Is it not clear, then, that the dessemination of sound Agricultural knowledge amongst a population so dependent on Agricultural pusuits must, especially in the present state of Socicty in this Country, be held to be, by every thinking man, of the highest inportance.

We have elsewhere remarked, that under proper management, Provincial and Local Exhibitions are powerful and bealthful stimalants-and we have ventured to make a few suggestions which may bo useful in rendering these Agencies more efficient aud rroductive of benefit. And although the period has not yet arrired, when the renovation of exhausted soils becomes a necessity-though that period may be very distant, when the boundless extent of woodland and waste is taken into view - yet it is too true that many have been, and are proceeding on a reckless and profligate system, -tending to the permanent exhaustion of large arcas, and necessitating hereafter a prodigious outlay for systematic renovation of their over taxed powers of production. No doubt we have vast tracts of forests to dispose of, and annual swarms of emigrants to fill them. But would it not be well that a period should be put to the exbaustion of soils so admirably situated as to markets and the facilities of transport, and that a system of well ordered rotations should be adopted, ensuring an abundant and permanent pro-duce-preserving at the sametime the average fertility of the whole area of the farm.

It will not do to lose heart, and condemn the country because of its inhospitable climate, and of the blights, diseases and insect pests which periodically aff.et the crops. It would be unwise to urge such an excuse-to sell out and
$m$ ve to the West, without giving the land in our possession a fair trial under improved management. Is it not full time that our farmers at least should begin to regard their location as their parmanent home-that they should begin to be inspired by love of country:-is it not full time they shond become possessed with the idea that they labour not for themselves alone but for their desecodants, that the trees which they plant and their spreading branches, are intended not only to shelter their grey hiars, and to provide them with fruit in its season, but to descend from father to son in a long line of industrious successors-each emulating his predecessor in activity and worth.

If our winters are somowhat longer than in Upper Canada, the difference consests chiefly in the extension of open weather in the fall. But this is in great part neutralized by heavy rains at this season, which materially retards field operatione. The average time of wheat in the ground in this Country is from 100 to 110 or ily hays. In Scottand about lo\% to lini. We have then about three months and a half to mature our crops-upwards of three months for labour ir spring time and fall:-and at present our crops are retarded, and much time is lost from injurious wetness of the soil from want of thorongh draining-delaying the period of field neerations and the progress of harvesting:-so that thorough drainage would very materially extend our available period for labour in this Country. If then the Western farmer has, 20 days lenger wherein to work than the Easternthe latter loses much time at present by the injurious wetness of the soil, which precludes the possibility of his making the best of the short working scason of which he is accustoned to complain so loudly -

It would be besides, especially necessary, so as to make the best of their oiportunities, to provide comfortable, however inexpensive, housing for their stock, (the consequent warmth resulting in a less consumption of fowl; - to encourage the more cxtended cultivation of green crops, and hardy de criptions of corn for winter feeding, making the most of these products by the se liously use of the straw cutter and staming apparatus and providing thereby a more plentiful supply of manure with which to raise green crops; and bestowing besides greater attention on collecting and saving manure, and encreasing its value and quantity by hauling muck and burning waste sod for ashes at all si, sare times. Of course if extraneous supplies and artificial manures can be afforded-good and well. But there is much to be done by making the best of what is so easily within reach. He who is unwilling to bestow due attention on the business in which he has engaged, does not deserve, and cannot reasonably expect to thrive as he might. And surely there are many who have to blame their own want of provideuce, frugality, and care fisr much of the unsuccess they so loudly complain of.

Many are aware of the faultiness of their whole system, but reconcile themselves with the reflection that it is incvitable. That the attempt at any change for the better in their situation, would be absurd-and would only make matters worec. They are overwhelmed with the fancied gigantic impossibility of attempting a reform; and so fold their arms in listless apathy and abandonment. Although fastewing up the clinks in the boards and lgy of their cattle houses could be ersily and simply accomplished-although cutting their straw and steaming a fow roots, would enable them to turn out their stock plump and vigourous in spring-although a few well placed drains would ensure them earlier seed time and harvest-although care in collecting and saving manure would encrease their crops in quantity and improve them in quality,-they are contented to drag along without the slightest attempt at these simple improvemeuts, and are contented to hug the welcome delusion, that any attempt to improve their situation, would he utterly impracticable and useless.

They forget that ucoll beyun is half finished. They seem not to beaware that
judicious improvement-followed by certain profit-nceds but a beginning. That by going on slowly, it may be, but persistently and steadily-in a short time they find everything practicable and commendable accomplished. They would thus bring order out of confusion-they would have remunerating profits in exchangefor a bare and beggarly living-and they would sigh no longer for the luxuriant plains and flesh pots of the West-with the bitter seasonings of Malaria and ague, and a thousaod disecmforts and drawbacks to which they are fortunately strangers.

And some would have it that there is a difticulty in finding moftable empinment for themse'ves as hired men in winter. Have they not their threshing -their transportation of froduce and marketing-the collecting of materials for manure and compost heaps,-clearing land-removing stones and obstructions, -cutting and hauling firewool, and fence and building timbor-repairing in.plements, fences, buildings, \&c. \&c. \&*, busides feeding and tending stock of all kinds-cutting straiv and steaming roots, with regular attention to their clearliness and comfort. These, besides mary specialties we could name-if carcfully atteuded to,-will fully occupy themselves and their dependants during the montis. of winter. But system is necessary. If the farmer knows how to arrarge a system suitable to the farm and locality,-every day of the year will have its unfailing duty assigned it. There will be no time for coisome and depraving idleness. Let ignorance and carelessness no longer seek shelter under twe plea of an inh spitable climate, and let wuch exhibitions of criminal negligence cease to exist-causing our youthful aspirants as they do, to faint and fail under the malignant discouragement, and causing them to flee across the border, or to the West,- expecting to find a better climate and a better soil-deserting the land of their birth for the land of the stranger-and unnecessarily braving the thousand and one discouragements, drawbacks, accidents, and misadrentures, io which they never would hare been subjected, had they been educated, under : proper system, to render themselscs indeperdent and comfortable in the land of their birth.

It shall be our endeavour, by degrees, to enable the industrious farmer of Lower Canada to develope the agricultural resources of the country in which pro.vidence has placed him; and to show him, that, by adopting an improved systero. with all convenient speed, he may have good cause, everything considered, to be thankful and contended with his lot.

## WHEAT CULTURE.

Where it can be safely raiscd, wheat is a crop of the greatest inportance in this country. But many things must be kept in view-the texture of the soil-its richness or porerty-the species most suitable for cultivation-tine cleanness and due preparation of the seed-the time and method for sowingand the due preparation of the soil. We refer our readers, to Yol. XI. No. $G$ page $2 s$ of this Journal for the analysis of a good wheat soil. A moist cool climate is not unfavorable to wheat growing, provided the routs are kept free from stagnant water, and the soil mellowed a d enriched by judicious manuring and efficient drainage ; but in no country will it succeed perfectly without the obtainment of these last conditions. The wheat plant is provided with two sorts of roots-the first feeding nearer the surface - the latter penetrating decver in search of pourishment, which would indicate the necessity for deep ploughing.
like the other cerealiex what is injured by the application of too fresh manure -the straw becoming tio luxuriant, and the grain usually light and imperfect; but the soil can scarcely be too rich in pabulum, provided decomposition has reached a certain point. When the growth is forced too rapidly, whether from climatic causes, or the rankness of the nourishment supplied by the soil, the straw is deficient in silfx, the ingredient which communicates to it strength, stiffness, and sustaining power-it is uuable to support its own weight-lodges, or falls to the ground-and from the thinness or wcakness of the skin or caticle, is liable to rust and mildew. But nevertheless fresh manure may be safely applied to the soil by adopting the system of rotations. It is not injurious to corn and other crops which may be included in approved rotation. Corn and clovers, as well as hoed green crops would be an excellent preparation for "heat, could the former be remored in time, so as to permit of getting in the wheat timeously. The delusive system of taking wheat crop after wheat crop from the soil without cessation, so long as it will produce it, cannot be too scverely reprehender. But, under generous management, soil need never deteriorate in quality. The making, washing, or pickling of the seed, preparatory to sowing ought never to be omitted. It is sometimes simply washed with water. Common salt is found to excert a marked influence, and when associated with lime or sulphate of copper the results are better when employed singly. But in order to avoid any chance of injury from the use of poisonous ingredients, sulphatc of soda and lime, combined, have been found -ufficicutly efficacious. We would therefore recomm end the use of sulphate of solda-llb., dissolved in two quarts of water, would go over two bushels of wheat, and the grain should be then dried with powdered quicklime. We would also recommend that the portion to tre und as seed wheat should, on no account, be allowed to become dad ripe in the ficld. tut should be cut and saved carly. The variety should be chosen with reference to soil and locality, and great care should be exercised to procure the seed pure and unmixed, as by ripening uuequally, great ins might ke incured by the farmor. Some varieties may stand longer in the field wilh little loss. In others eertain and very considerable loss would be ensured by shelling. We would strongly recommend to farmers, whenever they discover in the field ears of remarkable value, to gather them by hand early-and sow the seed carefully under every advantage, watch it perfecting the following year, and if the produce should be still satisfactory, resow it ; for by such meaus they may become possessed of uew and valuable varicties. Changing the seed occasionnally is of great importance from soil to soil and climate to climate, the cultivator on a high flat district, obtumning lis seed corn from a low, mild climate and a dry light soil ; and he from the latter bringing bis seed corn from a higher and colder climate, with good productive soil ; beech aud maple lands will suppiy oak lands and reversely. In this way you will preserve a more vigourous growth. When wheat is liable to winfer killing or blight, carly sowing is preferable. Where the fly is prevalent, late sowing should be the rule. Heary soils are more subject to winter killing, aud the ouly efficient remedy is thorough drainage. In a rich wet soil, a crop or two would repay the outlay-if judicious. At all events, in the meantime, the most perfect surface drainage should on no occasion be neglected. The use of the drill for sowing wheat will rapidly gain farour on all drained and well prepared soils, and will never fail to give satisfaction. The deep sowing of the drill is a great advantage where there is any disposition to winter killiug ; and the practice of ploughing in the seed, in order to give it depth, is only a practical acknowledgement of the adrantage of lrilling. In many eases wheat growing has been discontinued unnecessarily,-under the pretence of inadaptibility of climate, ravages of the fly 太c. \&c., when in truth all that is wanting, to supply a good and a paying return, could be surplied by thorough drainage-abundant manuring, and more ferfect cultivaiton. How
ean it be expeeted that wet soils, cxhausted soils, or imperfect laboured outs can possibly produce abundant or remunerative crops of wheat one year witi: another ? The indolent and negligent farmer finds that, with less trouble, Le san obtain better crops of indian corn, rye or oats, and the more valuable crop of viheat is incontinently superseded. We do not hesitate to affirm in the face of all this slovenly practice, that by proper manuring and draining and therougi. cultivation, many neglected districts of Lower Canada could be made to produce richer and more remunerative crops of mheat than they hare ever yet bor: in the menory of man.

## AGRICUL'TLRE IN ITS RELATION TO BOTANY.

It were well, could the agricultural student become acquainted with Syeternatic Botany, and Botanical Pbysiology. The former will enable him to recogrise at sight any plant he may meet with in the field, and the latter will mak. him acquainted with the internal structure and functions of the plants of Agriculture.

But especially we ought to know something of the structure of the plants we. cultivate-their organs, and the function thesc organs are called upon to discharge. Now these are of two classes-those essential to the vegetation and growth of the plant, and those essential to its reproduction and propagation. The first are necessary for the assimulative process - for the conversion of the crude sap into the living vegetable organism, and is analogous to the digestive, circulatory, and respiratory organs in the animal kingdom. The root absorbs in a state of solution, the mineral substances congenial to the plant, and acts as a reservoir of nourishment for the plant the following spring-especialiy in the case of biennial plants, the stem conveys juice, and serres as a support to the leaf ; and the leaf under the influences of the solar rays, changes the crude juice into the very nature of the plant: while, at the same time, it acts as a most powerful exhalant and absorbent. Now, every root has three parts-the sporgioles or rootlets, or small fibres; the middle or fleshy part ; and the collar or neck. These, by the power of eapillary attraction, absorb the substances congenial to the plant, convey the sulstances, in a state of solution, to the vasoular tissue, and thence to the leaf, by means of the attraction of the solar influences. Now these rootlets would appear to be endowed with a power, in some sense, akin to instinct. They are deputed to select or reject what is congenial to the plant, and act somewhat in the same way as chemical elective affinity. In al! this, the agriculturist must surely take a deep interest. And who shal! say that he cannot turn such knowlodge-the knowledge offered by vegetable Physiology-to his advantage.
Systematic Botany is acquired by two methods, the artificial or Jinnean, and the Natural or Jussien. It has become usual to decry the Linnean or more ancient method, and praise the other. But we think the better plan for the student, would be to study first the Linnean method so as to become acquainted with the individual plants, and their component parts, and thereafter, if he should ine so inclined, the Jussien,--viewiug them in grouns, as distinguished by aspeect, form and habits-properties and uses.
The geographical distribution of plants is also very interesting and instructive. Every country, and if extensive, its different sections or divisions posserses a vegetation, each peculiar to itself. This distribution is influcuced by
various conditions of soil and climate, and the predominance of certain families of plants in particuliar districts produces the most important effects on the social condition of a peanle - their habit of living, and the progress of the cconomical arts.

Temperature would appear to be the chief controlling inflance-determining this distribation; and the globe has been divided into eight divisons-called leothermal Zones-each distinguished by its peculiar distingushing regetation. If we should see fit to carry out our intention of giving in successive articles, in this Journal a connected exposition at greater length of the application of the sciences to agricalture, we shall go into detai!, and endearoar to give such an epitome of each as to make ourselves both interesting and instrustive. Oar present object is to awaken a spirit of inquiry, as we hare already said, and to induee sueh of our readers as have the opportunity to pursue the studj of select authors at leisure hours-afl rding both instruction and amuenent.

But we may remark generally, that as the physiognomy of the regetable kingdom is clameterised by distinctive plants in the latitudinal zones, from the equator to the poles-so also in a perpendicular direction in mountainous regions, such on great altitudes present themselves for our oberention, and are found in ascending and descending lines, to correspend with the horizontal lines in the latitudinal rone. So that elevation of the soil above the level of the sat is fond to affect the distribution of plants in the same manner as distance frc:u the poles in level countries. $B_{\text {; }}$ the benevolent distribution of nature, the irtiportant part of the yramincer are cifully distributed over the whole carth, in;creasing in a small degree towards the poles: between the tropies the rains form $l!t$, in the temperature zone 1,12 , and in the frigid zone $1 / 10$ of all the phanecogame They also increase in the number of species from the equator to the poles. The Leguminese rorm, unler the tropics, $1,1 \%$-in the temperate zone $1 / 18$, and in the frigid zone 125 of all phaneroyama. J.A.

## HATTENING STOCK.-STEAMLNG APPARATUS.

We hold this to be a subject of great importance,- not on' 5 as applicable to the feeding of Swine, but in economisiag winter feed for all descriptions of Stock. We are in communication with a practical man at present, and hope to be able to submit to our readers a Steaming Apparatus, so efficient and moderate in price, as to put it within the reach of all farmers in this Country. In the meantime we give them the following seasonable notice. J. A.
"Where there are many swine to fatten, or grain is to be fed, a steaming apparatus is at all times an economical appendage to the farm. It has been shown from several experiments, that cattle and sheep will gencrally thrive as well cia raw as on cooked roots ; but horses do better on the latter, and swine will not fatten on any other. For all aninals excepting store sheep, and perhaps even they may be excepted, grain or meal is better when cooked. Food must be broken up before the various animal organs can appropriate it to nutrition; and whatever is done towards effecting this object before it enters the stomach, diminishes the nccessity for the expenditure of vital force in accomplishing it, and thereby enables the animal to thrive more rapidly and do more labor, on a given amount. For this reason we apprehend there may have been some errors undetected in the experiments of feeding sheep and cattle with raw and cooked roots,
which results in placing them apparently on a par as to their value for this purpose. The crushing or grinding of the grain iusures more perfect mastication. and is performed by machinery at much less expense, than by the animals consuming it. The steaming or boiling is the final step towards its easy and profitable assimilation in the animal economy. With a capacious steaming-box for the reception of the food, the roots and meal, aud even cut hay, straw and stalhs may be thrown in together, and all will thus be most effectually prepared for nourishment. There is another advantage derivable from this practice. The food might at all times be given at the teniperature of the animal system, about 93 degrees of Farenheit, and the animal heat cepended in warming the cold and sometimes frozen food, would be avoided.
"The steaming apparatus is variously constructed. We have ased one ernsisting of a circular boiler five and a half foot long by twenty inches diameter, made of boiler iron and laid length way un a brick arch. The fire is placed underneath and passes through the whole length and over the end, then returns in contact with the boiler through side flues or pockets, where it entered the chimney. This gives an exposure to theflame and heated air ofabout lo feet. The upper part is coated with brick and mortar to retain the heat, and three small test cocks are applied at the bottom, middie and upper edge of the exposed end, to show the quantity of water in it; and two large st p cock (an the upper sido for receiving the water and delivering the steam, complete the boiler. The steaming-box is chlong, seren or eight fect in length, by about four in depth and width, capable of holding 40 or 30 bushels, made of plank grooved together, and clamped and keyed with four setts of oak joist. We also used a large circular tub, strongly bound by wagon tire and keyed, and holding a bout 25 bushels. The covering of both must be fastened securely : but a safetv valve is allowed for the escape of steam, which is simply a one and a half inch auger hole. Into these, the steam is conreyed from the boiler, by a copper tube, attached to the steam delivery cock for a short distance, when it is continued to the bottom of the box and tub by a lead pipe, on account of its flexibility, and to avoid injury to the food from the corrosion of the copper. It is necessary to have the end of the pipe in the steam-box, properly guarded by a metal strainer, to prevent its clogging from the contents of the box. We find no difficulty in cooking 45 bushels, of unground Indian cord in the tab, in the course of three or four hours, and with small expense of fuel. Fifty bushels of roots could be perfectly cooked in the box, in the same time. For swine, fattening cattle and sheep, milch cows and working horses, and perhaps oxen we do net doubt a large amount of food may be saved by the use of such or a similar cooking apparatus. The box may be enlarged to treble the capacity of the foregoing without prejudicing the cperation, and even with a boiler of the same dimensions, but it would take a longer time to effect the object. If the boiler were increased in proportion to the box, the cooking process would of course be accomplished in the same time.

Sensosabie Hive on min Pig.-Look well to the pige and pens this month. Pigs need particular care and protection from the extreme heat of the season at this time to do well. See that they have shade shelter, and clean, comfortable pens, forpigg, like bipeds, do best in confortable quarters. Many build their hogpens over a running stream, to avoid the nuisance of the ammonia which arises from the manure, and therefore annually suffer the loss of the fattening properties of their whole rye, corn and bnckwheat crops, by permitting the voidings to run down the stream. Of course no farmer can ever prosper who permits the waste of so much valuable fertilising matter as this, and when it can be prevented, as well as the heaith of his pigs, and the atmosphere of the neighborhood purfied by simply feeding a few handfuls of charcoal to the pigs daily, it is a mat-
ter of grat surprise that so simple a precaution as these sh uld be neglected, and a most abominable nuisance kept up to theannojance of the wholeneighborbood. The strong odor of the hog-stye is frequently the first salute of the stranger in approaching an otherwise neat and tidy farmers residence, whereas, the offensive effluvia may be altogether arrested and concentrated by keeping on hand a barrel of charcoal and fecding a few handfuls occasionally to the hogs, who will eat it more greedily than corn. Charcoal not only acts as a disinfectant, but also greatly promotes the health and growth of swine, and any farmer who understakes to make nice pork without using charceal to promote the fattening of it, and particularly to feed it at killing time, to purify and prevent the foetid odor which arises from the cleaning of the intestines, deserves to be made to feed and keep company with the grunters whom his stupid ignorance or l ziness compels to live and die in filth. If ever any neighborhood is afflicted with the " hog cholera," put it down to the disgusting practice of herding them too closely together, and compelling them to live in the midst of their own offal. Whenever any regard is paid to the feeding of charcoal and other cleanly arrangements, piga may be kept in the midst of large towns without any person apparently being the wiser of it. Thus much we have felt called pon to say in belalf of the uuhappy porker herded in confined pens.

Stonts may be made to whtain : fine gruwth if diming the two prececing months, a little ground com, rye and oats be mixed with their milk or slop, so that by the time the corn is ripe in the corn-tields they will have already arrived at a hog's estate, -and then, if they are only "crowded a little" with a mash of putatoes, pumpkins,turnips, aud meal, they will have made such pregress by the first of October and November, that at the end of the warm days of lidian Summer, if the hogs be of the right breed, they will scarcely be able to eat half the ration of a cean $h \mathrm{~g}$, and will soon beconse so fat, as to be unable to get up. Pork fattened and grown upon any other system will cost the owner twice as much for an inferior article. One reason why Western pork is, and always will be, inferior in quality to the "Jersey fatted," is because thelVestern farmers do not take sufficient pains in raising and fattoning it. - New-Jersey Farmer.

The Hos Cimern.-This disease has made its appearance in Catoctin Valley, Frederick Co., Md., in its most virulent form. The Reyister states that M. Peter Culler has lost 30 heads, M. Philip Cיblentz s, and M. Heary W. Summers 8. It also hears of other farmers whose porkers have fallen victims to the epidemic. The Register adds:
" Mr. Culler thinks he arrested the disease and saved the remainder of his hogs, by using the following remedy, which we append for the information of those whose hogs may have contracted the disease : 11 lb . of sulphur, 1 ll . of rosin and $\frac{1}{} \mathrm{lb}$. salpetre beaten into a powder and given in the proportion of a large spoonful to seven hogs every other day."

Tomatu C.arscr.-One quart best vinegar, $\frac{1}{4}$ or. mace, $\frac{1}{4}$ oz. cloves, $\frac{1}{2}$ oz.black pepper, $\frac{1}{2}$ oz. Jamaica pepper, $\frac{1}{2}$ oz. long pepper, $\frac{1}{2}$ oz. ginger, $\frac{1}{2}$ oz. mustard seed, twenty-five oapsicums, fifty tomatoes, one stick of horse-radish. On the fifty tomatocs throw $\frac{2}{3}$ lb. of salt, and let them stand three days. Boil the above ingredients (except the tomatoes) half an hour, then peel the tomatoes, and add them to it, boil them together half an hour, strain them through a seive, ind when cold bottle it.


NOURSE, MASON \& CO'S UNIVERSAL l'LOUGH.
Above we give a side view of this pewerful and ingenious implement, rigger; with one of the stubble boards and the skin plow forward, for double, or a and subsoil ploughing. This plough is sold by the Proprietors, with one mould board only, or with any number of mould boards, as the purchaser may e?ect It is adesirableimplement if butonemould board is wanted because the one willdo thorough and fiuished work, and when worn away considerably, or if by accident broken, $-\mathbf{2}$ contingency to which the mould board of any plough is liable; its place can be cheaply supplied with a new one. Again, the purchater, after obtaining one monld board, and the standard share and frame work, to go with it, can at any time procure such other mould boards of the series as he would life, at slight expense as compared with buying a new plough entire; and thus he may be induced to employ a larger and better assortment of ploughs, suited to lis various soils and modes of culture, than he would otherwise use.

N. B. The Ustomsas. Pison embraces the following kinds and sizes of mould boards, viz :-

1. For ploughing interrale and smo th grass lands, five sizes of mould beard of long and gentle spiral or twist: Flat furrows from ito 10 inches deep, and from 1 : to $1 ;$ wide, to 3 to 6 inches deep, and 10 to 12 inches wide.
2. For ploughing upland, stony ground, old pastures and other grass lands of uneven or rugh surface, four sizes of mould boards of short and powerful twist Hat furrows, from $;$ to 9 inches deep, and $1:$ to 15 wide, to 3 to 6 inches deep, and 10 to $1 \circlearrowright$ inches wide.
3. For ploughing clay and other stiff soil sod, lapping the furrow slices one upon another, at an inclination of $45^{n} 5$ to 7 inches deep, and 9 to 11 inches wide.
4. For ploughing stubble, or old ground, trio sizes of mould koard, throwing the soil over abruptly, and breaking it fine,-from i; to 12 inches deep and $1 \%$ to 16 wide, to 4 to $!$ inches deep and 10 to $l^{4}$ inches wide.

We shall contimue, from time to time, to prevent to our readers selected specicimens of useful agricultural implements, with brief descriptions as above.

The above implement may be Lad of Mr. Erans, of St. Ann's Market, at the cost of $\$ 11,60$.
J. A.

## OANADIAN FERTILTZER.

We may safely state that British America will be very soon prepared to supply to the world a Fertilizer, of her own-composed exclusively of native products-which will vie with Guano, or any other Fertilizer of which we have any knowledge. In the meantime we are willing to welcome all men who conic to us in thie guize of public benefactors, and should not feel justified in withholding from our readers the following communication.
J. A.

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"Dr. Charles F. Spieker, a pupil of Liebig, himself an eminent chemist, is the inventor, and has spent six years in perfecting his chemical combinations.
"The basis is the green sand of the upper cretaceous formation-or the so called Marl of New-Jersey. In itself the marl is one of the best Fertilizers, and las been amply used as such by the New-Jersey farmers; but, in conseciuence of the large quantity which is required to an acre, its bulkiness and specific gravity, it is only available in its immediate neighborhood. But through the perseverance of Dr. Spieker, this marl is now made the basis of a powerful and valuable Fertilizer-available and transferable any where. In 1857 he succeeded in his experimental process, and obtained his patent. The Examiners at the Patent Offec, Washington, pronouneed it a matter of national importance; for it will be readily scen, the enormous amount paid annually for freight, and as a royalty to foreign governements, shows the great necessity for a home-manufactured article to be produced at a less cost.
"The Hon. Henry Meige, in his speeci at the opening of the Crystal Palace, Fertinenily remarks :
"We believe that chemistry has not only made million: for the farmer, but that it will ere long gise all the fertilism wanted, superior to any known.

Guano may be exhausted, but the chemical rower to produce a better one nefer will be."
"The scientific primciple uson which the composition of this Fertilizer is founded. is, to from a comp und which is not only a stimulant for an mertased growth of the plant-as is Guano, by containing principally only ammoniabut to be an article of nourishment to plants, and permanent in power to the soil, by containing the element. which plants require, and which are found in them by subjecting the same to a chemical analysia.
"The efficacy of this Fertilizer has been submitted to the practical test by farmers of Monmouth county, New-Jersey, who pronounce it superior to Peru.vian Guano; while the State of New-Jersey, in consideration of the importance of the article, has granted a special charter to the National Fertilizing Company. Letters Patent have been talien out for England, Ireland, Scotland; France and Beigium. From Jingland, iffors are already before the Company for the English Patent -

Dr. Spieker has amoriatel with himself Dr. Louis Harper, LL.D., formeriz Professor of Gcology, Analytical Chemistry, and Agriculture, in the State University of Mississipi, as well as State Geologist, and the well known author of the "Geology of Mississipi." Dr. Harper was induced to resigu his herative and honorable offices after a careful chemical examination an. a visit to all the fiedea where the Fertilizer had been applied, and now deroter his whole tine to :so wanufacture of the article at the IIghlands of Nevesink, N. J. The manufaeturing process is, therefore, under the direct superrision of a scientific agricuithral chemit."

> Nateratose.
" ron cons.- The Fertilizer is beet applied when it is about a foot high' or even higher ;two handfuls on two different sides of the row, or hill, placing it in a hole about six inches from the stalk, and three or frar inches deep. No other manure is necessary.
" for chran. Gnins.- When sown broadeast, as wheat, rye, barley, wat:, rice and buckwheat, sprinkle the Fertilizer, after plowing; harrowing in at the rate of 300 or $; 00$ lbs., to the acre; as reguired.
" fon thanm- - ut the Fertiliher below the seed, covering it one or two inches, and sow the seeds above. For all other garden vegetables use as the corn method-as also for potatoes.
" fon robacen.- The Fertilizer is preferable to Guano in containing a larger quantity of the fixed alkalies, which are especially necessary for this vegetable. When required for this plant in particular, notice should be giren in the orders.
"for command stgar canf. Whe Fertilizer is peculiarly adapted by the soluble silica and alkalies it contain:, also the ammonia and phosphoric acid, rendering it, for Cotton, superior to all other manures.
"The Horticulturist will find this article indisppensable after a trial, by apply. ing it in the same way as upod corn or turnips.
"From the above instructions, we hardly think it necessary to enlarge our dircctions. In all things, sound judgment is necessary ; and it is supposable a successful farmer has all discretion, otherwise, he is not appr priately termed suectssfinl.

## 3orticultural soumal.

The season has $n / w$ arrived when we must prepare for winter. Traneplantiag of hardy Trees, Shrubs and Plants may be e nntinued, so long as the weather is mild. But, in exposed situations, the better plan would be laying in the trees and the roots, in a slanting, nearly horizontal position, in a dry and sheltered situation, and planting them out as early in spring as practicable. They would thus escape the danger of winter killing. Fall planted trees should be secu:ed against the action of winds, by throwing up a mound round the base, and by tying them up to stakes. A six inch co cring of manure is uiseful around the roots in winter, and it will of course be spaded and forked in about the roots in spring to aid the summer growth. Clear away all superfluous grass nuder which they may lodge, and corer up trees a fout high with mould to save them frome being girdled by mice.

Plant out all Hardy Buibous Roots, such as Hyacimiths, Lillies. Tulips, Crocus, Crown Imperials, etc., etc., covering the beds with 6 inches of leaves or straw. These roots should be rencwed by fresh supplics, as they soon degenerate. Carnations should be transplanted into a frame, throwing manure around it outside, and covering it over with mats or boarding, nncovering in mild weather. during the middle of the day.

Monthly Roses are better in such a frame than the house or greenhouse.
Foreign Grape Vines should now he taken down from the wall or trellis, and covered with straw or earth. Thick old rines should be well covered round with straw or ever green branches.

Tie up Raspberries to a stake, covering them round with straw.
Strawberry Beds ought to be protected with a few inches deep of leaves ar straw,-manure is apt to rot them.

Cover up Asparayus Beds in the same manner, but with rich manure, to be spaded in at spring time.

All Half-Hardy or Tender Shrubs should receive protcetion. Take down Ciimbing Plants, covering with leaves or strav, and Upright llants should be staked and thatched round with straw.
Cut away the flower stems from Herbactons Plants, and place an inverted sed over them.

Do not neglect to secure in time Finter Cabbages, Celery, Squashes, Beets, Parsnips, Carrots and other Culinaries. Prepare the soil for early spring cropss This is the time for laying out New Gardens and Grounds to anticipate spring time. If you wish to transplant any large Forest Trees, and Evergreens select them now, and dig a deep trench around the extremity of the roots, so that you may be able to take them up with a large ball about their roots after the ground freezes.

## how to exterminate the weevil.

Interesting Discivery.
J. L. Booth, nuw of this city, sajs the New Vork Evening Post who has made some valuable improvements in grain cleaning machinery for flour mills, sends us the result of some experiments with his machine for scouring grain. He obtained from a farmer thirty bushels of wheat from a bin of two hundred busi.. els, and after passing it through the machine, placed in glass jars samples of the
cleaned and uncleaned grain. Upon examination some time after, he found so latter alive with weevil and badly eaten, while that which had been scoured mas perfectly free from any appearance of the insect. This led him to a mieroserni, examination of the berry of the wheat, which resulted in convinciug him that any grain infested with weevil can be entirely cured and preserved by tine simple process of cleaning. In proof of which he states that a large portion of the grain seemed to have a siagle blister or slight prominence upon the germina. ting end of the berry, which was readily moved hy the point of a kuife, and toe egeg of the weevil discorercd.

Mr. Booth is satisfied that this thorough seouring and agitation of the grato removes the glatinous covering of the cell containing the egy, and that its ex. posure to the air destroys its generating properties. And if the wheat is takers in auy comition, after this insect has passed into the larve or perfect state, and treated as above mentioned with any effective smutter, this pest will be conpletely eradicated. There are other species of the same destroyer-one in whiolt the egg is deponitud in the berry while in a soft state before harvest, and the de. pository being capped over to exclude the air, the egg remains thus protsed until the grain is again sown, and doss not change until decomposition com. mences from the action of the carth and process of the germination. It will op seen by the extracts which follow, that many incffectalal attempts to find is a medy have been made. As Mr. Booth's process is within the reach of all, it : worth the while of those whose grain is infested by the weevil to try it.

The following extracts from the fifth volume of Natural History of $\mathbf{N}_{\mathrm{e}}$ York, written by Professor Rmmons, give some intereeting information respecting the sereral species of weevil, and the means litherto taken to destrop them.-Mass. Pionghiman.

Caravina Ganama.
This insect is a European species, but has been iutroduced here in sampies si wheat received from France. Many bottles of wheat were entirely destroyed, abthough perfectly closed, so that nothing could get in from without. It is cuil. 1 the Corn Weevil.

I suppose this introduction of the insect, which was accompanied with anotrer, the Silvanus Surinamensis, is only a single instance of its cecurrence in this way. When it was observed that the specimen grain was destroyed by then insects, Mr. J. E. Garit, roluntecred to describe and illustrate the insects 5 e publication in the transactions of the Agricultural Society of this state. I amy permitted to re-publish this valuable account, farnished by the gentleman refer. red to, as too much publicity cannot be given to a matter so interesting to the wheat-growers of this country.

Mr. Gavit, in his communications to the Sceretary of the society, states that in the specimens of wheat furnished me, I find two beetles-one is the true wes.-. vil of Europe, Calandra (ivanaria (Clairville;) the other, Silvanus Surim. mensis, the weevil most commonly found infesting the granaries of thia State.

No insect is more formidable to man than this little pest, since it attacks the priacipal basis of his food; and they are sometimes so numerous in a heap of grain that. they destroy it altogother, leaving nothing but the chaff. After the sexes have paired, the female makes a hole in a grain of wheat with her rostrum and deposits an egg. These holes are not perpendicular to the surface of the grains, but oblique, or even parrallel, and are stopped with a species of gluten of the same color as the corn. Oliver says there is bat one to each grain. I have, however, repeatedly found two, one in each lobe, anl thes: larva as plump and
well-conditioned as those who had the good fortune of a kernel to themselves. From the egg is hatched, in due time, a small footless grub, which, during its growth, eats out the entire contents of the grain, and when lodged in the grair. is perfectly sheltered from all injories from the air, becauec its excrements serve to close the aperture; so there; is no use in stirring the grain, as nothing can ir. commode it. It is very white, has the form of an elongated soft worm, and ties body is composed of nine prominent rounded rings ; it is nearly a line in leagth, with a yellow rounded head provided with organs proper for gnawing the grain.

When the larre has eaten all the flour, and is arrived at its full growth, it remains in the envelope of the grain, where it is metamorphosed into a nymen, of a clear white, and transparent ; the proboscis and antenne can readily be dietinguished, but it gives no sign of life, except when disturbed, and then but a slight movement of the abdomen. Eight or ten days after, the perfect iusect eats its way out. In geveral, that which serves as nutriment to insects in their larve state is unsuited to the perfect form. To this the calendra is an excepttion; for scarcely has it issued from its nymph state than it proceeds to pieren the envelope of the grain to establish itself anew therein. I have frequently watched the perfect insect feeding upon the farina of the grain, having pierced the skin and buried its proboscis to the base. It is often found, howerer lodged in the interior of the grain, and its black color does not annonece it. recent issuing from its state of nymph, since it is of a straw color at the time when it has just left its sheath ; oevertheless, we mast doubtless believe that it occasions much less injury in this state than in that of the larve. * **

Mr. Gaylord, howover, in his prize essay published in the Society's transactice. for the year $184 \%$, says of some specimens of whent that he liad received frcm the Patent Office, in which he found weevils, that "selecting some pure fiest wheat kernels, all perfectly sound, we enclosed a dozen of these weevils with tied wheat in a large phial to prevent their escape. The phial was wrapped i". paper and piaced where it would not bo disturbed, excopt for examination. Opening it occasionnally for more than a ycar and a half, I found my weevils, with the exception of oue or two, all living, asd appearing to enjoy thenselves much on the wheat, a large portion of the kernels of which they had hollowes out." This would imply that they survive two seasons at least, and those I ate in my possession sustain this assumption. Many and various modes of exterminating this foe to man lave been tried. We first har of fumigations with herb: of strong and disagreeable odor; but this seems useless, as it does not incomode the insect, while the grain receives a foctid and disgusting ecent. The fumes re sulphur are pronounced equally inefficient. Ail these fumigations are stili lio. adapted to the destruction of the larra, as the smoke cannot penetrate amory the grain, and their perfectly closed envelopes secure them from all such awoyances.

Oliver recommends the following as one of the most effectual and lea texfe. sive modes of destroying them: 'it the return of Spring, when the calavira: are observed to spread in the heaps of winter-stored grain, it will be necessary to form small heaps of five and six measures, and place them at a suitable distarice from the large heap; this stir with a shovel. The insects, who are singularl; fond of tranguillity, seek to escape, and, seeing another heap of graiu alongeide, they take refuge therein. When all are thus collected, boiling water is brought and poured over them, stirring it from time to time with the shovel to secure it, penetration through the grain while hot. NIl these insects then die, being buraned or suffocated at the moment. The grain is then spread for the purpose ot drying, and afterwards sifted to separate tho dead insects.
"It is necessary to perform this operation early in the Spring, before the dew. sition of eggs, the generation existing being only dangerous in giving birth
its succesore. This method may be performed on a large scale as well as a small one, without occasioning any considerable expense.

Other experiments have proved that a sudden heat of $i .1$ degrees Fahr. is sut. ficient to destroy these insects, without burning them ; and a simple, efficacious method is mentioned in the Tonnessee Agriculturist quoted by Mr. Gaylord in his essay; "If a hogshead, with one head removed, be inverted over a fire uutil thoroughly heated, and then immediately filled with wheat and re-headed, all weevils in the grain will be killed, and the grain may be kept in safetv, till wanted for use.
"A gentloman in Madeira has established a heated room, with hot water pipes, in which he receives as many as eight hundred bags of grain at a time : these become heated through at about $1: 35$ degrees Fahr : and the wheat, whea re-sifted, is perfectly cleaned, making quite as good bread as before, the seed also losing nothing of its vitality by this process. ${ }^{1}$
"The French' lay upon the grain flecees of wool which have not been seoured; the oily matter attracts the insects among the wool, whon they soon die, from what cause is not exactly known."

The C. Culmicola is a provisional species, whose habits have been investigated by Miss Margaretta H. Morris, by whom also it was discovered. Its habits are quite different from those of either of the foregoing species. The fly lays its eggs upon the grain, in or over the germ, where they remain unhatched until the grain germinates; but when the plant is three or foù inches high, the worm may be seen, by the aid of a glas, feeding above the top of the joint in the centre of the culm, until it is ready to become a perfect insect. It is san sut the mopa ressembles that of the C. Destructor.

As the fly deposits its eggs early in June, it is difficult to understand why they should remain unhatched so long, or until the future germination aithe same ripened grain after it is sown, and then to feed upon the culm; for itis the usual habit of flies to deposit their eggs near or upon the magazine of food on which the larva are to subsist.

R-ap iv Oarn, What in if!- Throughout the whale South Western pertion of the Union the nat crop has suffered from a terrible blight, which, from its resemblance to the fungus rabstane: that sometimes attacks wheat by that name, has been called rust. So far as re are informed, rust in oats has hitherto been unknown. We have never beard or read of anything of the kin l, in any section of the country. The fact that it is thus unusual cpens a wide and interesting field to the naturalist, and, in this case, to the entomologist, as it invites investigation in a channel, so far as we can ascertain, heretofore unexplored.

While in West Tenncssec, a short time inco, we took occasion to examine the blade of the oat under a microseope (kindly furnished us by the Bailey Troupe) and were greatly surprised with the phenomeuon which the glass revealed. Since then we have followed up those examinations, by the aid of more powerful instrumente, at the Medical College in this city, in company with several scientifie gentlemen, amoug whom were Drs. Briggs and Buchanan, of the medical faculty.

The cause of all this destructi na of the oat crop is a living worm, too small to be plainly seen with the naked eye. A single blade or leaf of the oat sometimes contains hundreds of them. They lie cneased in the tissues of the leaf or

[^0]blade where they have been germinated, leneath the epidermis or thin pellicle over the exterior portion of the blade, and, as they progress in developement, the skin of the leaf is raised into curious puffy blisters. The growth of the werm subsequently ruptures these, and it escapes to feed on the plant. When first released from their covering, they are of a beautiful, clear, red colour, almosa transparent, but soon begin to change color and form, getting more opaque aud dark in appearance until, in the course of transformation, they become a black bug, with legs and wings, when they attack the head or grain of the oats.

Under the microscope, the dust which remains ou the leaf closely resembles that on the wings of butterflies.

How this innumerable army of infinitesimal worms originated is yet a mystery. It is a singular fact, however, that wherever the greatest quantity of rain has fallen, there the oat crop has fared the worst. In our recent trip through West Tennessee, we saw but a single field of oats, betreen the Mississippi and Tennessee rivers which was not a failure, or iato which it would not be folly to put a sythe-blade. That ficld was near Denmark, in Madison county, and wes sown very early. It is well known that more rain has fallen in West Tennessee, this season, than in any other part of the State; bence the extreme wet weather must have had some agency in the production of this animalcule. It is also well known that moisture and heat will produce and multiply animal life, millions per hour, and therein we judge is the secret of this destruction of the cat crop

- It is one of those cases of natural phenomena which occur only at a certain stage in the growth of plants, and under peculiar states of temperature and weather. It may happen next season, or it may not occur again for many years. [Scothern Homestead.


## 3adices Bepartment.

## UURING OF MEAT.

The cutting up and salting of meat is atterided to in most farm-bouses by the men, but sometimes it falls to the lot of the settlers' wiyes, and it is necessary that they should possess some knowledge of the process, as circumstances may oblige them to take an active part in the bu-iness or give directions to their servants, as the case may be.

The meat should be hung in a cool place till it is stiff: it may then be cut up for salting. The usual way of dividing the hog is to take off the head ; cut out the hams, and fore legs, ham shape; and divide the rest of the carcass in pieces, which are cut clean through, chine fashion. These are rubbed and packed in clean salt, as tight as the barrel can be packed, and the barrel is then filled up with strong brine. A barrel of pork, containing nothing but the side pieces, should contain two cwt. of pork. This sells at the highest market price and goes by the name of "Mess Pun"" "Prime mess" contains the ham; and shoulders, as well as sides, and sells for less. And "Prime," which is the whole hog cut up indiscriminately, is the lowest in market value; but a barrel of either must weigh two ewt. of meat. Hams are sold sometimes separately at 6d or 7d. per lib., dried or smoked. Pigs are often sẹnt to market, or to the stores in a frozen'state and sold by the cwt. In purchasing a barrel of pork, it is necessary to ascertain the sort of meat you are buying, and not to pay for "Prime" or "Prime Mess" the same as for "Mess." As the emigrant, its

THE FARMERS' JOLRNAL.
first emmencing housekeeping, is obliged to preride stores of this sort, is is well that he slould be on his guard against imposition. And when the sterekeeper sces that his customer is not ignorant of these matters, he wili be less disposed to take unfair adrantage of him. Always endeavour to make zemr dealings with persons of respectability of character. Ind now to return to the caring of the meat for houschold use.

* Fourten pounds of good salt, half a pound of saltpetre, two quats if aslases or four pounds of coarse brown sugar: with water enough to diss the tho salt, and a pint of good beer or rinegar, if you can command either. Bring this liquor to a boil, and scum off all the impurities that may rise to the surface. When cold, pour this over your hams, which should be cold, but not frczeri. The addition of pepper, allspice, and clores is made by some who like a high es:vour to the hams. The hams stould remain in this pickle six or eight west : being turned and basted every two or tirce days, and then hang in the smocehouse. The best woods for smoking are : sugar-maple chips, hickory, birch: corn-cubs, white ash and becel. When removed from the smoke-house, sers each ham in any old linen or cotton cloth, and if you give this corering a mating of whitewash; with a whitewash brush, it will preserve it from the fies. There is a small dusky beetle, with two dull red or orange bars acrors its body, which iujures meat more than tho files: it deposits its eggs in the shin and joints. These eggi turn to a hairy worm, which destroys the meat; and unless some precautions are taken, will render it untit for ner. If you find by axamining the hams, that the cucmy has been at wots, I would recommend : large boiler or kettle of water to be put on the fire, and whon it boils, inmer-:
 them over with bran or saw dust, and pack them in a los wood ashos, of oats, as the Yorkhine farmers do ; you will have no trouble with the weer: again. To preserve pork free from taint, or to restore it if it be injured, pack charcoal in the barrels. The use of charctal as a preserver of neat is fery great; I have restored meat that was mach injured, by first putting off the bad brine-scraping the meat-and washing it in cold water-burning some edarbark in the barrel, and repacking the meat, laying lamps of charenal between the layers of meat, a strong brive being again poured on to cover it.

A pint of the drippings from the stove-pipe joints added to the bine wifi ator? restore meat, and give it the flavour of smoke,-or a small quantity of Froligneous acid. Where the brine has been allowed to stand in harels too loug, the burning of cedar-bark in them will purify them for use. A bad eellar mas be puriticd bv the same means, care being taken to secure the building from danger of fire. Where the roots have been kept in a cellar for any time, nueh purification is very essentich in the spring of the year.

> P:AZE HAU.

Rub your ham, which should be of fine-grained, well-fed pork, when cuite cold, with fine salt, to which add a little red pepper, and half a pint if molasses. Let it romain in the pickle, basting and turning it for six weeks. Then hang it up, and smoke forsix weeks. About the first week in April take it down ; wash it in cold water, and rub it orer with unleached ashes. If $j 0 n$ have any number of hams, let them lie fur a week, heaped together; then tang

[^1]them in a cool room, haring served them in canvass or old cotton. (Hamilton prize ham.)
Tu boti. H1.M.

Soak it over night in soft water; wrap a lock of swect hay about it, and boil in peenty of water, three, or if very laren, four hours: let the ham remain in tite water to cool gradualiy. Next day remove the skin, and trim all unsightly parts away : the ham will retain its flarour and juice much better than if shirnod hot: this of course can only be adopted when you do not require to serse the joint up hot to table; in that case skin it : grate crumbs of bread over the carface, and let it stand a few minutes in the onen to crisp the bread crumbs.


Hring tiken off the hams from a site of pork, thop the rib-bones close to the tach, so as to remove the back-boue the entire bugth of the side. With a sharp knife, raise all the small long bones from the meat, and trim all ragged portions earefully away. Then mix a pound of coarse sugar to $\because \mathrm{Oz}$ of saltpetre, and 4 lb. f salt. Rub this welorer the meat on all sides: two sides of bason will se be too much for the above quantity. Cut then in two pieces, and lay each piece above the other, the rind downward, and stew the remainder of the salt mixture over the last picee. A shallow wooden trough or tray, with a hole aud peeg at the bottom, is the best to salt your lacoa in : it should be placed a hittle sioning forward. Every seeml day, draw off the limor that runs from the meat, into a cossel and carefully pour it over the meat again, having shifted the botthat pieces to the top. In six weeks time, take them out; rub with bran, and lay on the rack to dry, or smoke them ; this process makes excellent ment.

Wuch of the gooducss of pork, ham, and bacou depends uron the meat itself - Che breed of hogs-and their treatment in fattening.

A great leal of the barrels of pork sold in the stores, is coarse, loose, flabby purk-distillery-fed, or else nut-ted ; the swine having nearly fattened themselfes in the woods on beech mast, acorns, and such food. This pork is known iby its soft, iliy fat ; the meat running away to oil, in the act of frying. Of course, meat like this is not profitable to the buyer. Such meat is better dried or sm, hod, than eaten fresh from the pickle. It is better to purchase your meat fresh of some respectable farmer, or salt it yourself, or buy well dried meat, though you must, of course, give a higher price for it. By referting to the marbet-table, you may ascectain the prices of meat, both salt and fresh.

Here is an excellent recipe, furnished by a gentleman, who considers it the best in use: I have eaten excellent meat at his table thus treated.

> JいKl.F. FOH BEEF aR romb.
T.s thrce gallons of pickle, strong enough to float an gg , add $\frac{1}{4} \mathrm{lb} \cdot$ of alum, 1 ft. of treacle, 1 oz . of potash; mix them well together ; pack the beef or pork, and pour the pickle on it ; cover it close; in about three weeks it will be fit for use. The meat must not be salted, but packed as it comes from the butcher, and the pickle poured over it.

$$
\text { BROWN YRICISEES } 1 \text { H VENIN.N. }
$$

Fry your steaks quite brown, in hot dripping; put them in a stew pan with a very little water, a bunch of sweet herbs, a small onion, a clove or tiwo, and pepyer and salt. When it has boiled for a fow minutes, roll a bit of butter in flour, with a table-spoonful of catsup or tomato-sauce, and a tea-spoonful of vinegar; stir this into the fricassee, and dish it quite hot. - Mrs. Trail.
bimphara in Rusixg Menns. - We gave ample directions fregrowing maclons, in the Agriculturist for May; but we wish now simply to make tecord of our experience the present Summer. In accordance with the directions in this. paper, we told qur gardener to dig out holes in the ground, eighteen inches deep and two feet square, to put a little fresh manure in the bottom of the pit, and then to fill up with a mixture of rotted turf, leaves, sand, common soil and old manure, in about equal proportions. We used this recipe, because the corner of the garden which we wished to derote to a melon pateh, was a cold stiff clay soil, wat needod a good deal of amelioration.
The melon seeds of four choice rarieties wre remten, and camie up fuely. They grew well, too, for a weck or ten days, and the gardener received all due praise for bis skill in preparing melon soils. But alas! After a heavy rain, out vigorous plants began to die, as if smitten by a sudden plague. A little exsurimation showed that they were eaten off below ground by worms. We now asked to the gardensr how he ha? prepared the soil for the melons. What was our sarprise to leain that he had forgoten most of our directions, and had filled up the holes with fresh horse wauure vearly to the top, and covered it with only two inches of good soil and saul! The plants prospered until their roota strack down into the fresh manure, where in rainy weather the worms abounded. The case was a desperate oue, but we resolved to try and save the remainder of our plants. So, having thoroughly soaked the hills with water from a sprinkling pot, we took up the young melons with balls of earth attached and laid them in the shade. The mass of half-decomposed manure was then mostly thrown out of the holes, and its place supplied with the ingredients mentioned at the head of this article. The young plants were then carefully reset and covered to keep of the sum. By unenvering them every night and shading them for sereral days, they at length became re-establithed and began to grow again. The vine are mow loadel with handome fruit and promise soon to reward all our labor.

We give this detail of sur experience, to caution others against the two free use of fresh manure in making beds fur meluns. For clay soils, a misture of sand and old manure is rery important ; and if rotted turfs and muck from the woods are added, it will he all the better.

Preberving Fheits for Wintir, glazs better avd chespir chan tix. - To the Editor of the American Agriculturtst:

Your frequent chapters under this head lead me to gire my experience, as I belive there can seareely he too much said in tavor of putting away an abundant sumply of theSummer and Autumo fruits, in a fresh state to relcive the monotony of "، salt junk." that ton prevalent diet of the farmer during the winter season. I an glad to see you set your face - and pen - against the use of so much atadiet truit, in which a pound of fruit is cooked up with its pound of fine sugar, thus destroying the flavor and produsing an indigestible compound.

I have used both tin and glass. for keeping fruit fresh, but greatly prefier the glass. I know the canmen tell us that nothing injurious comes from tin, even with acid fruit, so long as air is entirely cescluded from the cans. I will not discuss this question with them. but am certain that no delecterious substanec can rome from giass under any circumstances. Besides, there is a real satisfaction in looking at a transparent jar of peaches, plums or berries, requiring no label to designate its contents. Again, if perchance the sealing should be imperfect and the fruit give indications of not keeping, it can readily be seen and be used at ance. But the most important consideration with me is expence. Most of the Fatent cans cost $\$ 2.50$ per dozen, for quart sizes, while the glass jars I use, of \& ivut the same size cost but 75 c . per dozen. As we intend to put up near 100 yarts of various kinds of fruit, we shall save about $\$ 14$ by using the glass,
which will cortainly allow for a trifing breakige, thong we have fourd no trouhis in that repect.

The jars we use are common ghas with a tififegreen stade, but still quite tensparent. They are eight inches high, the main body being about 4 incber in ameter. The neek is wide being fall 2 imenes inside diameter, which allows the smaller fruits to be put in whole if durired Wia adopt two methods. So long as we have large corks we insert these orer the fruit, covering them with waxed woth. We sometimes put over simply wased cloth. We set the bottles around the stove door to heat gently at first, anl hate them hot when pouring in the hot frit. The corks are kept in a dish of wam water to soak soft amp pliable. A bssin of wax. made by melting and atrixing to gother one pound of rosin and one wace of tallow. is kept molted on the stove ready for use.

Th: fruil is put into a porcelain kettle with just sugar enough to sweoten it fo: use. It is then hoaled to the boiling point, but not cookel above two or there minutes, except tomatoes, and some of the larger fruits, and vegetables, wrich way boil ton misutes. With a long hambel dipper, and a follt funel havisg s largo orifice just fitting the month of the jar, I fill them very rapidly, whe an assistant follows, pressing in the eorks $\frac{1}{4}$ to $f$ of an inch below the surface and pouring on melted wax to fill it. She immediately ties over a piece of coten oloth previously eoated on buth dides with tho same wax. This seals them perfectly.

Haring securad a large quanity in this maner with entire success, I shall pursue the plan, mainly, as the corks make neater worh, and give additionnal secarity. though we put up some without the corks, is your Ohio correspondent sageested in the August Agriculturist.
Ia adlition to the smaller fruits already prepared, I intend to put up largely of tomatocs, peaches, plums, pears, quinces, late rhubarl, and that Yankee luxury, pumpkin, that I may have pies in Winter and Spring of hetter thavor than made from driod rumkins.-Lomg Is/and Honseliefuer.

## Whterolong.

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MONTREAL RETALL MARKETS.



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#  JOURNAL OF THE TRANSAC(TIONS 

## OP TUE:

## B0ARD of AgRICLLTURE

## ${ }^{10}$ <br> LOWER-(ANAD)A

BY<br><br><br><br> 

ASSISTED PY

(Of Gorthleck,) F. S. S. A., \&o., 太c., \&c., (iovernment Drainage Cummissionner for Scotland; Life Member of the Highland and Agricultural Society of Scotland; late Factor for the Right Monble. the Earl of Hopetoun ; Author of "the Philosophy of Duty," "Jetters on the Currency," and other Economical and Social Suhjects; Series of First Class Prize Fssays, On the Application of the Sciences to Agriculture and the Arts." "The Alottment System," \&c., \&c.; Contributor to the Mark Lane Express, anil linglish Farmer's Journal, Ne., Sce, 太c.

## YHAE 1859

The progress of Agricolture will be the ohject of wis whiailing solicitude, for from isimprovement or derline we uay date the properity or decline of Nations.

Napoleon 111.

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MON'TIREAL
D: MONTIGNY \& COMIDANY
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## PIREFACE.

While emering on a publication of such importance as the "Jownal of the transactions of the Board of Agriculture of Lower ('anuda." I feel sensibly that I ought to crave the generous indulgence of my readers. 'To accuit myself creditably of such a duty, I onght from the first, to take np the diseltssion with the true spirit of an Agriculturist, and render the detaik with serupulous accolacy. I onght to compare periodically in our Provincial Exhithitions, the evidences of improvement in stock breeding, in agricultural implements, and the products of the field. Besides I should make it my business to travel through our rumal districts, and form an estimate, on the spot, of the nosel imprownents in faming, the system of culture, the rare bestowed on the raiving and feeding of stock, the dressing of the soil, and the remens of the harest, se., in a word, I ought to follow step ly step in the march of agricultural progress, suggesting everywhere such improvements ans onght to be adopted, and rerounting faithtally the suceess by which they have been attended.

Surly these are duties abundantly numeroms, and important. I sincerely hope I may be enabled to do them finstice.

If five years study under the best masters and in the most highly improved Countries of Europe will suffice, I must ronfess to having enjoyed these ardvantages-if the information ohtaimed from the perusal of the best Authors, and by worl of month from the most celebra-
ted English, French, German, Dutch, and Italian Famers, and listened to with the earnest desire to profit by it should suffice, I must again confess to having enjoyed these adrantages. To plead the rause of agriculture is to plead the cause of my country. "From the improvement and decline of Agriculture, said Napoleon III, wr may date the prosperity and der line of Nations."

To follow a systematie and regular order, 1 wall begin with a Report of the last Provincial Agricultural Exhibition. This prelininary critical review of our Breeds, and Agricultmal Implements, will show satisfactorily the present state of Agriculture in this Province, and the means at our disposal for its future amelioration.

I shall thereatier, attempt a review of the past, condensing, as much as possible, the important facts presented in our Agricultural History. The futme shall follow, in detail, the varions investigations and experiments, in progress, so well worthy of our attention.

This historical Summary, comprehending the present and the filture, will furnish abundant material for our "Journal of The Tronssactions of the Board of Agriculture of Lower Canada."

> J: PERRALLT,

Sec. of the Board of Agriculture of L..(C.

## REPORT

OF THE

## PROVINCIAL AGRICULTURAL FXEHIBITION

0r

## MONTREEAT

## 1858

This Report of the last Provincial Agricultural Exhibition, having for its object to establish the present state of the Agriculture of this Province-the point arrived at, and the means at our disposal to favour the march of improvement, I shall divide my work into ditinet chapiters as follows :

10 Gencral Report of the Exhibition.
20 Breeds of Horses.
;) 0 Breals of Cattle.
$4^{\circ}$ Breeds of Sheep.
$5^{\circ}$ Breeds of Pigs.
is Agricultural Implements.
$7^{\circ}$ Agrizultural Products,
$s^{\circ}$ Conclusion.
Such is the order to be followed, with the means at my disposal.

## (CllAPMER FIRNT.


Once more, despite the complaints of the last year, Pointe Nt. Chatles was chosen as the most convenient place for on Provincial Exhibition. One calls to mind that last yar some breders declined to risk their sheep amongst the wobles of Griffintown. These gromalless fear-- which experience has so plainly given the liefailed to inflience the Managing Committee to atter their choice, in the view of bany ofler important recommendations. On the one hand, the Grand Trumk Company, in the handsomest manner, phaced at their disposel their extensive buildinss for the use of the department of Ars and mannfactures, and on the other hand the neighbourho od of the common and its extem, allowing room and range enongh, and at our disposal,-were ablvantages so apparent as to determine the choice of Pointe St. Charles, in preference to any oher locality in the neighbourhood of Montreal.

Immediately on choosing the 'focale', the erection of the necresaty buildings, and the arangement and apportionment of the gromeds commenced; and thanks to the exertions of the Local Committee, by the 29 of September, the first day of the Exhibition, all the neeessary erections were completed-the white tents, doted ower the green sward,-the principal entrance were hang wih verdant bonghs,-flags of gay colours thated on the breare, de., in a word, every object donned The festive garb to give echat and embnsiastic weleome to our approachmg Rumal Festival, at glorions antmontide. By eleven oblock A. M. the varion products were dased, and assorted in their several sections, and the Jury went their rounds. The same day the prizes were awarded in every deparment-with the exception of Ploughs - The trial in the field having been delayed till the following day.

Second Day.-At six o'dock A. M. all the phonghs were on the competition ground--ithe position of ach plonghman, was determiby lot-and the plonghs, with the same horses attached, were tried by rach ploughman in succession. The Jury would have applied the test of the dynamometer-but, unformately, theirefforts failed from reasons which we thall have to explain when we come to the detaik of our Implement Department. The prizes, then, were awarded on a fair estimate of the work turned out by each plongh on comparative trial.

At 9 o'clock the publie were adminted within the circle, and at 3 the assemblage must have outmombered 90,000 spectators. It would have been impossible to realize a more decided success.

Next day, the 1st October, the neeting of the Agrienltural Assoriation of Lower Canada was held on the gromad. At 10 o'clock A. M. more than fifty Presidents and VicePresidents or comey delegates assembled. The question of the choice ef the 'Locale' of the next Provinciad Exhibition was brought before the notice of the Mreting, and warmly discussed.

The lollowing is the Report of the Mecting.

The Provincial Ayricultural Association for Lower-Canada met this day, Ist October, pursuant to notice, on the Show Ground, in the City of Montreal.

Present : James Logan. Esq., President Agricultural Association; Joseph Laporte Esq., M. P. P., 1st Vice-President; Ion. Hollis Smith, Ind Vice-President.

## Members of the Board of Ayriculture.

John Yule, Esq., President; E. J. DeBlois, Esq., Vice-President; Major Campbell, Esq., Messrs. J. C. Taché, B. Pomroy, J. O. A. Turgeon, R. N. Watts, P. E. Dostaler, Hon. P. J. O. Chauveau, Mr. Posé, M. J. Guilbeault, M. Ossaye. The Mayor of Montreal ; Alderman Marchand.

## Presidents of the County Agricultural Societies.

Messrs. J. E. Casgrain, L'Islet ; T. A. Lambert, Nicolet No. 1 ; J. B. Datoust, Two-Mountains; C. A. Baily, Compton; C. P. Mallory, Sherbrooke; G. W. Baker, Chatoauguay ; Horr. P'. U. Archambeault, I'Assomption ; J. McDougall. A. Kimpton, Terrebonne; A. Kay, Shefforl ; E. Jones, Jr., Argenteuil.

## Vice-Presidents of County Ayricultural Societies.

Messrs. G. C liobinson, L'Islet ; Ths. Wood,Nicolet No. 1; M. Rodriguc, TwoMountains; A. O. Kellum, Compton; S. Beane, Stanstead; John McDougald, Chateauguay; J. Davidson, ; J. B. Scott, St. Thimothé: W. Boa, Jacques-Cartier ; A. Martincau, Shefford, J. Mc'onnell,. Argenteuil.

Delegates of County Agriculuural Socielies.
Messrs. Ed. Quinn, Hochelaga ; Ths. McGinu, Hochelnga ; Major Volieny, Joliette; Ls. Levesque, Joliette; D. Masson. Two-Mountains; (i. E. Mayrand.

Maskinongé ; Joseph Boissard, Chs. Martin, Wm. Scott, Chateauguay; Williaht Cross, Chateauguay ; J. Beaubien ; Chs. Laberge ; M. P. P., Iberville; Pierre Labelle, M. P. P., Dr. Smallwood, Laval.

## Board of Arts and Manufactures.

David Brown, President; Hon. P. J. O. Chauveau, Vice-President.

## Executive Committce.

(i. W. Weaver, W, J. Bartley, W. Rodden, Esqs.

Hortucultural Society.

J. Ferrier, Esq., Jr., President.
M. J. Logan in the Chair.

1. Moved by Major Campbell seconded by M. Taché;

That Joseph Laporte, Esq., Viec-President of the Association, be President of the Association for next year.- Carried.
2. Moved by Mr. DeBlois seconded by Mr. Turgeon ;

That Honorable Hollis Smith be lst Vice-President.-Curried.
3. Moved by Mr. DeBlois seconded by Mr. Dostaler.

That M. O. E. Casgraiu of L'Islet be 2nd Vice-President. - Carried.
4. Moved by Mr. DeBlois seconded by Mr. Taché.

That the next Provincial Agricultural and Industrial Exhibition be held at Qucbec.
5. Moved in amendement by Mr. Boa, seconded by Mr. Wood, that the next Fxhibition be held at Montreal.

After discussion, the votes stood as follows:
For Montreal. - Joseph Japorte, Mollis Smith, B. Pomroy, J. B. Duoust, C. A. Bailey, C. P. Mallory, G. W. Baker, P. V, Archambeault, A. Kimpton, A. Kay, A. Jones, Jr., Ths. Wood, M. Rodrigue, S. Beane, John McDougald, J. Davidson, J. B. Scott, M. Boa, J. McConnell, Fd. Quinn, Ths. McGinn, Major Voligny, D. Masson, IV. Cross, W. Rodden.-25.

For Quebec.-John Yule, E. J. DeB'ois, Major (amphell, J. C. Taché, J. O. A. Turgeon, P. E. Dostaler, R. N. Watts, Mon. P. J. O. Chauveau, M. Posé, M. Guilbeault, F. M. F. Ossaye, N. Caggrain, F. A. Lambert, Cieorge C. Rohinson, A. Martineau, Ls. Levesque, Jos. Boissard, Chs. Martin, J. Beaubien, Js. Delorme, J. McDougald, C. Swallwood, Ls. Beaubien.- 23 .

The next Provincial Exhibition will he held at Moutreal.
G. Moved by M. Quinn,scconded by Dr. Smallwood.

That the ensuing Exhihition of the Association be held on Wednesday, Thursday and Friday the 21, 22, 23 September 1859.-Garried.
7. Moved by Dr. Smallwood seconded hy Mr. Rodden:

That the Presilents ant Viec-Presidents of the Board of Agriculture and

Board of Arts and Manufactures, do compose the Local Committec, with power to add to their number, for the next Exhibition.-Carried.
$\therefore$. Moved by W. Watts secomed by W. Modden:
That the thanks of the Association le ten lered to Cirand Trunk Rail-Way Company for their liberality in giving the iscociation the use of their ground and buildings at Pointe St. Chatles, and the trouble taken in assisting to carry out the views of the Association.-Carried.
9. Mored by C. A. Bailey, sceonded by W. MeConncll:

That the hour be changed for releasing the Cattle, and in future that it be fised for 4 O'ciock 1'. M. on the last day of Eshibition.- Carried.
10. Mored by W. Rodden, scomded iy M. Tureeon:

That a Committee of ten Memhers be now named for the revision of the present Laws or Let of Pinlitment unler which this Asociation exists,and to superintend the passage of said changes through the ensuing Session of Parliamentto consist of the Presidents and Vice-l'residents of the Board of Agriculture and Board of Arts and Manufactures: Major Campbefl, Dr. Smallwood,C. J. Taché, Chs. Brooks, with the Mover and Seconder. - Carried.
11. Moved by M. Bailey seconded hy M. Kellum:

That the thanks of the Association le tendered to James Logan Lisf., for his able and obliging assistance as President of the Association during the past year and to the local Committee for their zealous exertions in carrying out their duties during the last Exhibition,-Carred.
12. Moved by M. Louis Levesque, necouded ly. M. Turgeon.

That the thanks of the Association be tendered to the Chairman for his able conduct in the Chair--Carried.

Montreal, 1st October $18 \% \mathrm{~s}$.

> I. PERLSULT, Secretiry Lrow. Igric. Assoc. for L.-C.

Lmmediately ather this meeting the Membere of her Board of Agriruhture reeonstituted themselves and proweded as follows:

Fribay the It October 1x.ss, at 1 Oelotk I'. M., the Pord of Agriculture for Lower Canala met at the oftice of the Secretary on the Show-(iround,-pursuant to notice.

Present-_J. Yule, Firi., Previlent; L, J. DeBjois, Fisf.. Viec-President; Major Camphell ; Ion. P.J. O. Chaurean; I. E. Dortaler ; Liev. J. Guilbault; B. Pomroy; F. M. F. Osaye; J. O. A. Jurgeon. R. N. Watts. Members of the board of Agriculture.

The President read the followins communications:
Protest by Mr. Alloway, about his thorough bred stalliom, which took only the 2nd Prize at the Provincial Lithibuion. The Buard could not entertain the reasons which induced Mr. Alloway to protest.

A letter from Col. Fingy objecting to the state of ohevity of the prized ani. mals as breeding stock, The Board thenked Col. Gugy for his suggestions on the snbject.

A letter from the Judges on horses, asking a prize witheld by the Board for non-compliance with the rules. The Board could not give effect to the explanations given by the Judges.

It was then resolved that at 40 'clock the gates should be opened, and the animals allowed to leave the ground.
A. 2 Owlock the Board aljourned.

By order,
J. JERRAULI'.

Sccretary

At $2 \frac{1}{2}$ Orelock the Board of Agriculture met again at the request of Mr. J. -. 'aché, Member of the Boanl.

Presemt.-Messrs. E. J. DflBlois, Vice-l'resident ; Major Campledl ; P. E. Dostaler ; B. Pomroy ; J. E. 'Taché : J. O. A. Turgeon : R. N. Watts.

Mr. F. J. DelBlois, Vice-President was called to the chair, in the absence of J. Yule King. President.

Mr.J. F. Tashe proposed and it was resolved, that the board do adjourn to the second Thurslay of November, and that the said day be specially devoted to the discussion of the holding of the Provincial Exhibition of Jower-Canada, and to the rules fio the meetings of this Boart.

By orler,
J. PERRAULT.

Secretary.

Entortmately, the weather became less propitions in the rourse of the day, and our visitors did not much exeeed 15,000. At Four Oclock the List of Priges awarded was distributed, which we irathefer to our pages at length.

## PROVINCIAL AGRICULTURAL EXHIBITION.

## Premiums awarded at the EXHBBITION, held at Montreal, September 1858.




FRENCH CANADIAN Class.
Section 23.-Best Cow.

1 st No 282
2nd No 283
3rd No 285
4th No 290

1st No 300
2nd No 298
3rd No 296
4th No 295
1st.
No 306
No 313
No 312
O. Durocher, Stanstead

Thos. Hamel, Ste. Foye, Quebec
Joseph Dorion, Montreal
A. N. Archambeault, Varennes

Section 24.-Best 2 years old Heifer.
A. N. Archambeault, Varennes
H. B. Reeves, Cote St. Pierre
O. Durocher, Stanstead

Ls. Senecal, Longueuil
Section 25.-Best 1 year old Heifer.
O. Durocher, Stanstead
H. B. Reeves, Cote St. Pierre
J. Laporte, Pt. aux Trembles
J. Laporte, Do.

Working Oxen.
Section 26.-Best Yoke of Working Ozen.
lst No 327 J. B. Shirtiff, Stanstead
2nd No 325 Ls. Dagenais, Pt. Claire
Sterers.
Section 27.-Best Pair of 3 years old Steers.
1st No 332 W. L. Felton, Sherbooke
2nd No 333 Do.
Do.
Section 28.-Best Three Cows, owned by the same person.
1st No 158 James Logan, Montreal
2nd No 335 C. Robinson, Odelltown
3rd No 187 J. Perrault, Vareunes
Highly recommended. Foreign Stock.
No 198, Hereford Bull, Doct. L. Richmond, Derby, Vermont
Highly recommended, No 199 Chas. Robinson, Odelltown
ENGLISH CLASS.
Class 2.-Shrer.-Letcester or Long Wooh.
Section 1.-Best Ram, 2 shears and over.

| 1st | No 375 | James Hughes, Cote St. Louis |
| :--- | :--- | :--- |
| 2nd | No 361 | John Robinson, Sherrington |
| 3rd | No 368 | Ralph. Moore, Lacolle |
| 4th | No 374 | G. Smith, Lachine |
| 5th | No 362 | Chs. Robinson, Odelltown |
|  |  | Section 2. -Best Shearling Ram. |
| 1st | No 389 | Daniel McNaughton, Hinchinbrooke |
| 2nd | No 384 | Charles Robinson, Odelltown. |
| 3rd | No 383 | John Robinson, Sherrington |
| 4th | No 396 | John Smith, Inverness |
| 5th | No 393 | James Hughes, Cote St. Louis |
|  |  | Section 3.-Best 3 aged Ewes. |
| 1st | No 412 | George W. Winterbottom, DeLery |
| 2nd | No 403 | Peter McMartin, Lachine |
| 3rd | No 402 | A. Sommerville, Lachine |
| 4th | No 407 | Ed. Qun, Longue Pointe. |
| 5th | No 400 | Charles Robinson, Odelltown |

Section 4.-Best 3 Shearling Ewes.

| 1st | No 419 | A. Sommerville, Lachine |
| :---: | :---: | :---: |
| 2nd | No 417 | Charles Robinson, Odelltown |
| 3rd | No 416 | John Robinson, Sherrington |
| 4th | No 421 | Alex. McNaughton, Huntingdon |
| 5th | No 415 | W. McGough, St. Eustache |
|  |  | Socth-Down. |
|  |  | Section 5.-Best Ram, 2 shears. |
| 1st | No 428 | S. J. Pomroy, Compton |
| 2nd | No 426 | J. Finingham, Cbambly |
| 3 rd | No 427 | Major Walker, Ghambly |
|  |  | Section 6.-Best Shearling Ram. |
| 1st | No 430 | Major Walker, Chambly |
| 2nd | No 431 | L. K. Benton, Stantead |
| 3 rd | Ne 433 | S. J. Pomroy, Compton |
|  |  | Section 7.-Best three Aged Ewes. |
| 1st | No 436 | S. J. Pomroy, Compton |
| 2nd | No 435 | Ths. Hamel, Quebec |
| 3rd | No 434 | Major Walker, Chambly |
|  |  | ction 8.-Best three Shearling Ewes. |
| 1st | No 437 | S. J. Pomroy, Compton |
|  |  | FRENCH CANADIAN CLASS. |
|  |  | cestier or other Lono Wooled Siferp. |
|  |  | Section 9.-Best Ram, 2 Shears. |
| 1st | No 448 | Pierre Chicoine, Verchères |
| 2nd | No 446 | Joseph Dansereau, Verchères |
| 3 rd | No 447 | Camille Dansereau, Verchères |
| 4th | No 438 | Adolphe Trudeau, St. Henry |
| 5th | No 445 | Joseph Laporte, Pointe aux Trembles |
|  |  | Section 10.-Best Shearling Ram. |
| 1st | No 459 | Samuel Besset, Marie-Ville |
| 2nd | No 457 | Docteur Poulin, Marie-Ville |
| 3rd | No 458 | Et. Poulin, Marie-Ville |
| 4th | No 461 | Ed. Bourgeois, St. Jean |
| 5th | No 451 | F. X. Brault, Riviere St. Pierre |
|  |  | Section 11.-Best three Aged Ewes. |
| 1st | No 469 | Samuel Bosset, Marie-Ville |
| 2nd | No 470 | Joseph Laporte, Pointe aux Trembles |
| $3 \mathrm{rd}{ }^{\text {* }}$ | No 472 | Jérome Dansereau, Verchères |
| 4th | No 467 | Docteur Poulin, Marie-Ville |
| 5th | No 464 | Olivier Durocher, Stanstead |
|  | Section 12.-Best three Shearling Ewes. |  |
| 1st | No 479 | Samuel Besset, Marie-ville |
| 2nd | No 476 | Moïse Vincent, Longueuil |
| 3rd | No 481 | Ed. Bourgeois, St. Jean |
| 4th | No 477 | Dr. Poulin, Marie-Ville |
| 5th | No 478 | Et. Poulin, Marie-Ville |

Class 3.-Swine.
Large Brefd.
Section 1.-Best Boar, 1 year and orer.
$19 t$
Quebec Lunatic Asylum
2nd No 490 John McIntoch, Laprairie
3rd No 492 James Young, Ste. Rose
4th No $494 \quad$ C. A. Cutbbert, Berthier

- Section 2.-Best Sow, 1 year and over.

1st No 504 Robert Elliot, Montreal
2nd No $497 \quad$ John Scott, Montreal
3rd No 501 $\frac{1}{2} \quad$ E. J. Farwell, Warwick
4th No 500 James Logan, Montreal
Section 3.- Best Boar, under 1 year.
1st No $507 \quad$ John Scott, Montreal
2nd No 506 David Laird, La'Tortue
3rd No 508 Joseph Laporte, Pointe aux Trembles
Section 4.-Best Sow, under 1 year.
No 514 Quebec Lunatic Asylum
1st
2nd No 510 David Laird, LaTortue
3rd No 513 Joseph Laporte, Pointe aus Trembles
4th No. 511 Ths. Dulby, Odelltorn
Small Brebd.
Section 5.-Best Boar, over 1 year.
1st
2nd
3rd
4th
1st
2 nd
3 rd
4th
18t
2nd No 5501 . Léon Laporte, Pointe aux Trembles
3rd No $549^{\circ}$ Camille Dansercau, Verchères
4th No 546 Joseph Laporte, Pointe aux Trembles Section 8.-Beet Sow, under 1 year.
1st No 562 Joseph Brodeur, Pointe aux Trembles
2nd No 563 Adolphe Ste. Marie, Laprairie
3rd No 551 David Laird, LaTortue
4th No 557 James Logan, Montreal
Class 4.-Honstb.
Section 1.-Best Heary Draught Stallions.
1st No 3 James Logan, Rob-Roy, Montreal
2nd No ${ }^{6} \quad$ James Muir, Sault aux Récollets
3rd No 7 Thimothé Dansereau, Verchères
4th
1st
2nd
3 rd No 16 James Hughes, Côte St. Louis
4th No 19 Samuel Farwell, Danville

# Section 3.-Best Stallions Canadian Breed. 

| 1st | No 28 | Henry Gauthier, Montréal |
| :---: | :---: | :---: |
| 2nd | No 30 | Stanislas Gareau, St. Roch |
| 3 rd | No 29 | Joseph Poitras, Montreal |
| 4th | No 37 | François Viau, St. Laurent |
|  | Section 4.-Best 3 years old Stallions. |  |
| 1st | No 44 | James Drummond, Petite Cote |
| 2 nd | No 54 | John McDonnell, jr., St. Léonard |
| 3 rd | No 42 | John McDonnell, sr., St. Léonard |
| 4th | No 48 | Walter Prendergast, Montreal |
|  |  | Section 5.-Best 2 years old Stallions. |
| 1st | N, 62 | John Dods, Montreal |
| 2nd | No 66 | Ths. Dawes and Son, Lachine |
| 3 rd | No 65 | John Wiseman, Ste. Catherine |
| 4th | No $\mathrm{as}^{\text {a }}$ | James Allan, Pointe aux Trembles |
|  | Section 6.-Best Brood Mares and Foals. |  |
| 1 st | No 88 | John Dods, Montreal |
| 2 nd | No 94 | James Logan, Montreal |
| 3rd | No 89 | John Dods, Montreal |
| 4th | No 93 | Arch. O'Gilvie, Rivière St. Pierrc |
| 5th | No 87 | Pascal Gagnon, St. Michel |
| 6 th | No 73 | Alex. Duff, Lachine |
|  |  | Seotion 7.-Best 3 years old Fillies. |
| 1 st | No 99 | John Dods, Montreal |
| 2nd | No 10: | Robert Elliot, Montreal |
| 3rd | No 101 | Hypolite Paradis, St. André |
| 4th | No 103 | Lonis David, St. Lambert |
|  |  | Seetion 8.-Best 2 years old Fillies. |
| 1st | No 106 | Frère Bruno, St. Laurent |
| 2nd | No 110 | Pascal Gagnon, St. Michel |
| 3 rd | No 107 | James Drummond. Petite Cote |
| 4th | No 113 | J. B. Charbonneau, Ste. Rose |
|  | Section 9.-Best Pair Draught Horses. |  |
| 1st | No 116 | James Logan, Montreal |
| 2nd | No 117 | Francis Hadley, Riviere St. Pierre |
| 3rd | No 118 | Arch. O'Gilvie, do |
| 4th | No 119 | Joseph Lanouette, do |
|  | Section | 10.- Best pair Matched Carriage Horses |
| lat | No 124 | John S. Hall, Rivière St. Pierre |
| 2nd | No 121 | Pierre N. Lefebvre, St. Rémi |
| 3rd | No 123 | Thomas Hodge, St. Laurent |
| 4th | No 125 | Jesse Joseph, Montreal |
|  |  | Section 11.- Best Saddle Horses. |
| 1st | No 129 | Hon. P. H- Moore, St. Armand |
| 2nd | No 130 | Col. Gugy, Quebeo |
| 3rd | No 135 | John Wiseman, Ste. Catherine |
| 4th | No 131 | Hugh Brodie, Tannerie des Rollands thorovar Bred Horser. |
|  | No 140 | Section 12.-Best Stallions. W. Bemett Montreal |
| 2nd | No 1+1 | A. W. Alloway, Montrea! |


| 1st | No 139 | Section 14.-Best Mares and Foals. <br> G. West, Quebec <br> Class 5,-Butter. <br> Section 1.-Best Firkin of Butter. |
| :---: | :---: | :---: |
| ]st | No 604 | John McGregor, St. Andrews |
| 2 nd | No 570 | Squire Colby, Hatley |
| 3rd | No 585 | Colin Dewar, St. Andrews |
| 4th | No $617 \frac{1}{2}$ | William Logan, Chateauguay |
| 6th | No 595 | Simon Cass, Hawkesbury |
| 7th | No 614 | N. Farlinger, Dundee <br> G. W. Ayer, Dundee |
| 8th | No 610 | c. P. Mallory, Huntingrille |
| 9th | No 573 | David Laird, La Tortue |
| 10th | No 611 | James Lee, Frelighsburg Cheese. <br> Section 2.-Best Cheese. |
| 1st | No 623 | N. Farlinger, Dundee |
| 2 nd | No 629 | S. Beane, Hatley |
| 3rd | No 638 | Robert Brodie, Cote St. Pierre |
| 4th | No 636 | Simon Cass, Hawkesbuty |
| 5 th | No 646 | Linus Chandler, Hawkesbury |
| 9th | No 627 | Colin Dewar, St. Andrews |
| 7th | No 641 | (k. Glines, Lachute |
| 8th | No 633 | Martin McMartin, St. Andrews |
| 9th | No 625 | M. Morrin, St. Augustin |
| 10th | No 630 | Mrs. L. Little, Hatley |
|  |  | Class 6.-Sugar from Maple ection 1.-Best Sample of Maple Sugar. |
| 1st | No 658 | B. F. Bowen, Compton |
| 2nd | No 662 | Linus Chandler, Compton |
| 3rd | No 660 | J. F. Osgood, Eaton |
|  |  | Class 7.-Fizld Productions. ion 1.-Best 4 minots Winter Wheat. |
| 1st | No 666 | Wm. Morrin, St. Augustin |
| 2nd | No 667 | James Logan, Montreal |
| 3 rd | No 664 | J. B. Ouellet. St. Eustac |
|  |  | action 2.-Best 4 minots Spring Wheat. |
| 1st | No 670 | John Drummond, Petite Cote |
| 2 nd | No 676 | James Logan, Montreal |
| 2 rd | No 685 | François Monette, Pointe aux Trembles Section 3.- Best 4 minots Barley. |
| 1st | No 70I | James Logan, Montreal |
| 2nd | No 698 | Daniel Drummond, Petite Cote |
| 3rd | No 703 | Peter Fisher, Longue Pointe Section 4. - Rést 4 minots Rye. |
| 18t | No 712 | A. Kimpton, St. Thêrèse |
| 2 nd | No 711 | J. B. Ouellette, St. Eustache |
| 3rd | No 713 | J. O. A.Targeon, Terrebonne Section 5,-Best 4 minots Oats. |
|  | No 716 | Squire Colby, Hatley |
| 2nd | No 721 | James Logan, Montreal |
| 3 r | No 720 | John Oswald, st, Thérèee |
|  | No 735 | Section ${ }^{\text {Augus }}$ McNaughton, Hinchinbrooke |


| 2nd | No 744 | Wm. Whinfield, Granville |
| :---: | :---: | :---: |
| 3rd | No 734 | Daniel MeNaughton, Hinchinbrooke |
|  | Section | .- Best 4 minots of Marrow Fat Peas. |
| 1st | No 750 | A. Kimpton, St. Thérèse |
| 2nd | No 751 | James Logau, Montreal |
| 3rd | No 754 | Alexander Duf, Lachine |
|  |  | ion 8.-Best 4 minots Horse Beans. |
| 1st | No 760 | Leon Saporte, Pointe aux Trembles |
| 2nd | No 762 | James Smith, Pointe Claire |
| 3 rd | No 760 | Wm. Whytock, St. Laurent |
|  | Section | - Best 4 minots Indian Corn, in the Ear |
| 1st | No 790 | T. E. Wadleigh, Hatley |
| 2nd | No 789\% | C. P. Mallory, Huntingrille |
| 3 rd | No 775 | James Logan, Montreal |
|  |  | on 10.- Best 2 minots White Beans. |
| 1st | No 792 | Squire Colby, Hatley |
| 2nd | No 791 | Thomas Ainslie, (tranby |
| 3rd | No 793 | Amos Kezar, Hatley |
|  |  | ( $11-\mathrm{B}$-st 2 minots Timothy Seed. |
| 1st | No 800 | Joseph Auger, St. Lin |
| 2nd | No 813 | Dougall Graham, Ormstown |
| 3 rd | No 802 | F. X. Brault, Riviere St. Pierre |
|  |  | ion 12,-Best 2 minots Clover Seed. |
| 1st | No 815 | N. Collette, Varennes |
|  |  | n 14,-Best 2 minots of Flas sied. |
| 1st | No 820 | Remi LeCavalier, St. Laurent |
| 2nd | No 822 | Paul Desjardins, St. Rose |
| 3rd | No 819 | James Shills, St. Laurent |
|  |  | Section 17.-Best Bale of Hops. |
| 1st | No 825 | Dawes \& Son, Lachine |
| 2nd | No $826 \frac{1}{2}$ | A. O. Kellum, Compton |
| 3rd | No 824 | L. K. Benton, Ntanstead |
|  |  | Section 18.-Best Bag of l'otatoes. |
| 1st | No 835 | Capt. Rhodes, Quebec |
| 2nd | No 833 | James Logan, Montreal |
| 3rd | No 881 | L. K. Benton, Stanstead |
|  |  | tion 19.-Best 19 Sweedish Turnips |
| 1st | No 858 | Capt. Rhodes, Quebec |
| 2nd | No 856 | James Logan, Montreal |
| 3 rd | No 860 | John Nicholson, Montreal |
|  | Secti | 20.-Best 12 White Globe Tumips. |
| 1st | No 870 | John Nicholson, Moutreal |
| 2dd | No 868 | W. B. Davidson, Tannery West |
|  | Section | 21.-Best 12 Yellow Aberdeen Turnipe. |
| 1 st | No 873 | Thomas Hamel, St. Foye,Quebec |
|  |  | tion 22.-Best 12 Orange Carrots. |
| 18t | No 881 | James Logan, Montreal |
| 2nd | No 886 | Robert Brodie, Cote St. Pierre |
| 3rd | No 803 | James Allan, Pointe aux Trembles |
|  | Sectio | 23.-Best 12 White Belgian Carrots. |
| 1st | No 875 | James Allan, Pointe aux Trembles |
| 2nd | No 903 | Leon Laporte do |
| 3 rd | No 906 | Joseph Chartier do |

BOARD OF AGRICULTURE.
Section 24.-12 Mangold Wurtzel [Long Red]





This general sketch of the Provincial Exhibition for 1858, permits me to review at once each class separately. I will commence by horses.


## 3, THL Subserber haviug been awarded <br>  RuGBD AL Latuy hed in the Gity, or the Best Display of

## 50yOS dJIO

Ofess for Bale tho Choicest amt most extencive stock of Mamplactured Furs
ever expibited in this Market, heleting the pplendid Artides
Zxtibition, which won the adourtion of all visifors.
His Stode coneists in puttot
GAPGS, MANTEES R GOMELEPE EETY
in Husgian, Huloons Bay and Cantha Sable, Noth Ghore Mrik, Merten, South Sea Seal, Otter, Siberian Spuirrei, istracae, Repdim Letrit, ghd hanime: MUFFS, BOAS, VICTORINES, CARS AND CUFES, COATS, in Streland ud South Scn Ee31 other Trimmings \& Betr, Bebver, Ruceous, Ast North Shore Otter, Mink, and CAPS, in Senmtés, North Stiote Otare Nortracan and Persian Lanb, Es.

GAUNTLETE AND GLOV ES, of the mane naterial.
A beautifal assotinent of Robes in every miety of Materil.
$[5$ Ladies and Gentlenens. FUDS of exery description mude to order from
 ectenoe of Materjal and Citish.
A. BPAFADI Reppetally invites purchaters to inspect his Stock, which oannot be equalled in Conida for varlety, quality, and value.

Noveraber 18t, 1858.

## ERRATA.

Page 40 line 20 for "did not letve the oxhibition of this year without foeling gratified with the abonding eridences met with," reed "must have left the exhibition of this year feellng gratified with the abounding evidercen they met with.
" 49 " 30 " " horges were," read "c horees was."
" 49 " 44 " "breed are," read " breed is"
" 49 " 43 " "praised," reed "prized"
$" 50$ " 10 " "The ghort Horn Cow," red "The Durham Polled com."
$" 50$ " 14 " "bundle," read "hande"
" 50 " 86 " "valuable," read "excolient."
" 61 " 25 " "ddjoining,' read "admiring"
" 68 " 28 " "redulously," read " redalous."
" 64 " 10 " "sa hiret," read " and hired."
" 55 " 33 " "sowing,' read " of sowing."
" 56 " 1 " "impcreet," read " imperfectly."
" 66 " 16 " "funetion," reed "functions."
" 66 " 24 " " plants," read " plents, -."
\&
se.
Articlos.-"No Piae like Home"' on page 52, and "Wamar Cilerome." page 64, - Editor's signature omitted. These inacchracies are owing to univolaithle brate in getting out this number.

## NOTICE.

10 All letters conceraing the sabseription or advertisements must be addressed . to De MONTIGNY \& Oo., post-paid, if not they shall be refased.
$\square$ Advertisements, 10 oente per line, invariably published in the two languages. Business cards 85 per annum, two lines only are allowed for that price.

OP Price of subscription ONE DOLLAR per annum, payable invarams adrance, and to take date from the 1st of September.

DT Those who wish to discontinae their subscription mast give notiee thoreof one month before the expiration of the term of thair subscription for the year, otherwise they shall be considered as subscribers for snother year.

DPextrast from Bill of Agribalture, 20 Vic. Chap, 32, Sear. 15: "1f the sail Boards or any of them shall putbish a Monthly Journal, fc, tt thall be the ryty duty of all Agricultural Societies receiving any share of the Public Grant, to give notice of the time and place of holding thicir Exhibitions in the Journal to published or adopted by the said Boards respectively.


[^0]:    1 Transactions of the Entomuligical Eoriety of Lamlon, vois 1.
    2 London Lit. Gazette, Inly 1, 1wes.

[^1]:    * This quantity will be suffeient for two cwt. of encat. In salting down the meat, it is letter to have one to mb the mat, and another strong hand to pack into the toanci. Some prefer ment dy-caliel to piekling it.

