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# Cumadiar Agricultuript, 

OR

OURNAL AND TRANSAOTIONS OF THE BOARD OF AGRICULITURE<br>OFUPPDIRCANAA.

YOL. XIV.
TORONTO, DECEMBER 1, 1862.
No. 23.
lgricultural and Veterinary Institation
It will be seen from an advertisementon our lat page, that a class is about to be formed this city, for the encouragement anoong our Mang farmers of the study of Agriculture in ba scientific and practical relations, and of ta Veterinary art, in reference to the Anatomy, Physiolngy, Diseases and their modes of matment of farm aniraals. The latter will maprise the history of the different races, and a principles of brceding, with appropriate cristrations. Mr. Smith is familiar with the fost approved methods of treating in Europe, ing himself a licenciate of the old Veteriary College of Edinburgh, where he attained bigh standing, and will study to adapt hisinpactions to the capacity and special wants his students, who will have additional op-
 daging in aissecting and the use of instratants.
In the department of Agriculture, Professor Gackland will receive valuable assistance orn several of his colleagues in University Hhege, in Chemistry;'Geology, Botany, Entoplogy, and other branches of Natursa Hisy, all of which have important bearings कh on the theory and prectice of Agriculture. fla composition of soils, plants and ánimals, Whbe as fully treaied of as the timervill wit, with descriptions of the most approved kntments and machines, and the principles
on which they act. Manures, their composition and modes of action; rotation of crops, and a description of the various products of the farm, and their comparative value; the alteration and construction of Farm Buildings, the laying-out of fields, fencing, roadmaking, fruit aud ornamental planting, will also receive attention.

The chief design of these lectures is to point out to young men actually engaged in farming, who have not had the means or opportunity of making themselves acquainted with the scientific principles on which the agricultural art is based, the checapest and readiest way of acquiring this knowledge. With this great end in view the pupils will be fully instructed how to read and study the best treatises on the various subjects that will come under their consideration, and to form a correct habit of observing, recording, and applying the agricultural phenomena of daily life. As the successful prosecution of agriculture, as a business, greatly depends on a correct and vigilent habit of every-day observation, the opening of the eye and the exercise of the reason and judgment on the changes that occur in nature, and in the markets of commerce, great pains will be taken to develope these qualities in the class, and to prepare yeang: mera to thimk, stway, anse observe for themzelses. It boing intended to form a class of this chargeter every winter, its studies will as fay as posaiblo ba made complesa in one
term; butin case of students presenting themselves a second time, facilities will be afforded for carrying out their studies and investigations to a wider extent.

In the Veterinary department the instruction will proceed from rudimentary principles to their application in practice; and the main cbject aimed at is to enable young men to acquire a correct general knowledge of the structure and physiuldgy of the domesticated animals, and of the most approved methods of treating ordinary diseases, an acquisition in itself of no mean practical value. The pecuniary loss to farmers, every year, from a want of this kind and degree of knowledge and skill, is much greater than is generally imagined. Mr. Smith is open, we believe,-to receive professional pupils,--such as intend to follow the Veterinary art as a means of livelihood: and one of the chief objects of the Board of Agriculture in originating this morement is the hope of establishing ultimately, inthis section of the Province, a regularly organised Vetcrinary School, in which the various l,ranches will be thoroughly and projessionally taught ly a complete staff of Professors. This, however, must be a work of time. As the live stock of the country has been of late years rapidly increasing, both in amount and quality, and consequently in money value the proper understanding and treatment of disease is daily becoming a matter of greater moment. Hence the necessity of making a commencment in this direction.

As the introduction to the class, to which we have now drawn attention, will be gratuitous, and no further expense to pupils need be incurred beyond that for board for a week at the most leisure period of the year, it is hoped that a goodly number of young men, desirous of self-improxement, from different sections of the Province, will present themselves on the approaching occasion. Let none keep back from a supposed deficiency in preliminary qualifications; an ordinary English educetion is all that is really required. The principal requsite is a desire to tearn. No kind of cxamination will be required either on entering or leaving the class. *But to such as may be disposed to pass an examination in
all the subjects at the ent of the term, prize in books will be awarded in accordancet the proficiency attuined. We like the idea these prizes much; they will tend to stim late study and a healthful rivalry among the pupils, and those who are successful will ta with them into the country some of the the books relating to their pursuits, that will $f$ a long time to come benefit both themsere and neighbors. Such young men will in tir become rural missionaries in their respectit localities, and infuse around them a desire f knowledge-and agricultural improvement.

Ice-Houses.
Whitten for the Agriculterist.--Te best time for building ice-houses beit now at hand, and as it is not generull: known that with a little additional expens an ice-house can be constructed so as to a swer the double purpose of keeping ice, 4 preserving milk, butter, \&cc., I will give yo readers a description of one, which I built the Fall of 1859, with a preserving chamb for this purpose.

Ice can be kept in large quantities duri ${ }^{2}$ the whole summer season in houses built tirely above ground; but where it is desirt to have a preserving chamber, and to inste a sufficiently low degree of temperature attain good results, it is indispensably nec sary that the earth should be banked up the height of several feet against the outsi of the building. In constructing my i house, I took the advantage of a convenie and descending spot, sunk a pit fifteen eighteen, and from 4 to 5 feet deep; walled up, to the height of 9 feet, banked the eaf up to the top of the wall all around, excep space for the doorway; upon the wall I puid frame 6 feet high which gives a height insi from the bottom to the comb of the root over 20 feet. I put in heavy sills in the $b$ tom, except in a space 4 feet square for preserving chamber. Upon the sills, I pu floor of two inch oak plank, and on the of this a floor of one inch pine jointed close The floor has a descent of two inches towal the preserving chamber, and it conducts waste water from the ice to this chamber: putin an inside frame, and lined it insid this left a space of six inches between lining and the wall to fill in with satrd and the partition between the ice and pres; ing chamber is also double, and filled in 5 satrdtitt well-packed.

To complete the pressrying chember, I put in clean sand to the depth of four ind then paved it with medium burned bricks, ,
being preferable to hard, on account of their capacity to absorb and retain a large amount of water. Pains were taken to have the floor exactly level in the one direction, and also very tight, so that oll the waste water from the ice shall be conducted to and distribrted regularly upnn the bricks. This keeps them so constantly cold as to preserve milk, during the hottest season for from thirty-three to thirty-six hours, perfectly sweet, and butter very hard. One valuable feature lelonging to this morle of preaerving milk and butter is, that during the warmest weather of summer season, when cold sweet milk and butter of a degree of solidity equal to that of the winter season is appreci:ted as one of our greatest luxuries, we can have it so, from the simple fact that at that particular time the supply of the cold ice water is greatest.

Butter made and kept in this way docs not become as soon soft after being brought to the table as that which has been kept in a spring of water, nor cio thunderstorms appear to hasten the development of lactic acid. We have noticed no perceptible difference in the length of time which the milk has remained sweet in regard to clear or stormy weather. I have observed at different times, by placing the thermometer within one foot of the bricks in the preserving chamher, that the temperture was about 54 degrees, while it was 95 in the shade outside. The sand underneath the bricks subserves an important purpose, by retaining the water, and supplying it to the bricks hy capillary attraction at such time, as there is not a great s ipply coming from the ice.
The space above the preserving chamber should he opened and unobstructed to the roof, and over the ice there should be good ventilation to the roof, to carry of all the rapour which may arise from the milk.
An ice-house construeted in this manner is one of the best investments for a farmer, for besides securing the luxury of preserving mink and butter cool, vegetables of different kinds may be preserved fresh until a succeeding crop grows. I kept one year's beets good during the following summer; also cabbages. These latter I laid upon the ice, which imparted to them a crispy sweetness, perfectly delightful in the very warm weather of June. Vegetables may also be preserved in this manner by farmers, so as to bring them fresh to the market in early summer.

Destruction of the Wireworm, \&c.

## To the Dditor of the Agriculturist.

Sil -As you and your correspondent. Aaricon $A$, invite the readers of the $\alpha$ griculturist to give an opinion as to the best mode of deatroying the vire-worm, I teke the liberty of submitsing a fow observations, the result of come ex.
perience and long observation on that and some other matters connected with Agricultare. I confess being startled at the commanication of your correspondent, as I was not aware of the existence of those destruc.ive pests to the extent Agricula complains of, in any locality of this to wnsidip. I believe there is at least one infallible remedy ior this evil, but unfortunately it is unattainable in most parts of Oanada. On the Yorkshire wolds and in Lincoloshire, when old pastureis aud extensive sheep walks were orought into cultivation, the first, second and ${ }^{-}$ Derhaps third crops did pretty well, afterwards, the turnips and grain crops were often destroy; ed, especially on deepish soil, to a considerable exteat by the wire-worm and grabs. However the firmers disevvered that by giving the land a thorough covoring with calcareous marl or lime stone, dug out of pits made in the fields where the evil existed, they effecually got rid of the mischief, and abundint crops of both roots and grain were afterwards a cerixin result. Some farmers preferred giviog the land affected a good dose of quict hme, as the labour was much less than marling or chalaing. They also imagined that a profit was sooner realized, in consequence of the quicker fertilizing effects of the lime. Bnt there are but few sections in Oanada that will s.llow of such a practice, and I know of no such a situation in this township that will admit of it. I therefore respectfully suggest to your correspondent a mode of management which, if he thinks worth his while to adopt the principle, will, I sincerely believe, materially lessen, if not rid him altogether of, the grievons evil. I would recomnend him tu commence by having at least one fifth of his tillage land a naked fallow, and have that thorovghly plowed deep in the preceding fill; as soon as possible after the spring seeding is over and when the land is dry enough, to have the fallow well harrowed, and immediately after thoroughly cultivated as deep. as the best implements will allow of, then by a diligent use of harrows and perhaps an iron toothed horse-rake, carerilly collect all the weeds, roots of weeds, \&c., into heaps and burn them; by so doing an immense number of worms, larve and ova will be effectually destroyed. When that is accomplished, if from thirty to fifty bashels of quick-lime is carefally distributed over the fallow, and then cross-plowed, harrowed and gone over with a heary roller to compress and consolidate the ground, thereby retaining the cansticity of the lime longer in the land, the lime will be of immense benefit not only by destroying the worms, \&c., by virtue of its cansticity, but as a fertilizer and by its chemical action.on the organic materials of the soil, rendering them more solable 23 food for vegetation. It bill be well nom, to let the land remain thras or four weeks undisturbed, tinen if it istuald be weedy, the use of the plow or cultivator, or it may be both, will be necded again. Afser
which, it may be presumed the land will be in proper condition for receiving the dung, prior to riaging up for sowing fall wheat, or, as Agricola suggests, allowing a portion to remain for spring wheat.
It is, perbaps, onnessary to observe that lime and dang should never be applied together, as the fertilizing properties of dung are in a great measure diseipated by the chemical action of quick-lime. The year following, after harrest as soon as other work on the farm will admit of it, it is advisable to plow in the wheat stabble, a portion of which, say half or more, may with propriety be sown with pease in the spring. It is an approved practice to pot the pease in with a drill, leaving an interval of twelve or fifteen inches between the rowe, to allow of the effectual ase of the hoe for the extirpation of thistles and other weeds daring the growth of the crop. The remainder of the land, to be appropriated for growing potatoes and other roots. I may observe that the wire-worm and other grabs will accasionally destroy white turnips during the early stage of their growth, but it is a singular fact that those pests will not molest potatos or Swede turnips (Ruta Baga). In my humble opinion grounded on experience of a few years in Canada, the best time for sowing Swede turnips is from the 15th to about the 25 th of June. I may say by doing 80, I have invariably succeeded in obtaining a crop, and never bad to sow the seed a second time in the tame season. It is absolutely necessary to have the land in good condition, cleared of sll weeds and rabbish, and well pulverized by cultivation. A two rowed seed and manare drill is the best for putting in curnip seed with manure on slight ridges with an interval of aboat twenty four inches between each,-an excellent composition to drill with the seed, may be prepared of tight bushels of bone dust or half incher, one bushel of salt and eight or nine bushels of ashes to each acre, to be well mized and screened, to be suffi ciently dry when used so as not to interrapt the working of the drill. The fertilizing and alterative properties of this manure, will endare bejond the tarnip crop and graatly benefit the succeeding crops. As sonn as the plants are in rough leaf, the intertu's onght to be well horsehoted, just before the plants in the rows are thinntd oat, and kept quite clear of weeds by the horse and hand hoes during the after stages of their growth. The nezi crop in suecession may be spring wheat or barley, with grass seeds of clover and timothy. If the pea end root land has boen plowed in the fall, which is the beat practice, it will be necessary prior to sowing tha grain in the epring, to harrow and then go over it with the cultivator, to make proper channels for the reexption of the seed. It perhaps would not be expedient under the circumstance of Agricola's farm having the wireworm, to let it remain longer than one year in
grass ; it may then be plowed early in the spring following and sown with oats, which will end the rotation. I am led to beliepu if your corresnondent adopt thas or some similiar rota. tion of cropping, he will much mitigate the great evil be complains of, and by diligenily weeding thistles and otber perdicions weeds, out of all his crops during their groxth, the resalt of bis farming will be both proattable and pleasant to him. 'To sustain the rextility of the land, it is imperative io collect and taixe care of all the manare the farm prodaces: T'o avoid much of the waste caused by the spring loods washing away the jnices of the manare in the barn yard, 1 deem it advisable to clear the yards as mach as pessible in Febraary, add pile the drog in tolerab'y large heaps in the feldy where it will be wanted. What liquids fow from the piles during the progress of decomposition are by this plan retained on the land. It occurr to me that the manure would probably benefit the fall wheat most, in the above rotation, and secure a better quality and perbaps more grain, if it coald be apread on the sod priot to plowing for the oat crop. It would then become thoroughIy ineorporated with the soil in the process of fallowing Gor wheas. Fractical and observant agricultarists hofd that raw manure to a wheat crop eneourages too much the growth of straw and makes it more sabject to mildew and rust thus deteriorating the grain. Eromenats.

Chinguacoasy, Nov. 21st, 1862.
[We are obliged to our earrespandent for his valuable contribution, from which Hgrricold and o:rr readers generally may gather useful suggestions. We shall be happy to hear frnm him again on the 'results of his agrieuftural observation and experience.-En.]

## Transplanting Trees-Old Notions.

On looking over old tecommendations and old practices, it must be admitted that the art of transplanting and managing fruit trees has made a great advancement. It is not begond the memory of old men, that the recommendation - 25 common to sow oats and plant potatoes in the holes in which newly set trees were placed -the reasons given were the loosening of the soil aud shading of the surface. Others held the roots to their places by piling stones upon them. Others again, thought the beat thing they could do was to fill the hole with freeh manure, or at lesst two or three inches of fresh manure directly in.contact with the roots. We have seen an orchard of 300 peach treesset out in a clover meadow, withont any further care, and where nearly all died the first year. Ten yoars ago, we inquired of a tree agent of clove observation, and who had effected extoinive sales of dwarf pears, what proportion of theio trees vere properly cared for, so as tó provio successfál and bear cropi ? His answar wa
"not more than one in a hundred-all the rest we thrust oat in 0 hard or grase ground, or batirely neglected in calture, or never praned."

We shall hare enough bad treatment; but the number who know what good management is, and who practice it, has increased greatly within the last ten years. Many have learned that oats, potatoes, grass, or any lind of weeds, growing about a young tree, however mach they may shade the sutface, carrs off the moistare from the soil, and exhsust its fertility, many times more rapidly than a simple exposure $\alpha$ the bare and mellow surface of the ground and that when there cannot be a mulching of this surface by mellow soil, a coating of dead regetable matter is the only thing admissable. Many, after killing whole orchards by placing fresh manure on the roots, have discovered that Gine rich mellow earth, is the beat thing to be placed in contact.

Agricaltural papers have done inuch towards effecting the improvement that has been made ; sad nurserymen, who are aware that those who lose trees will not be likely to pu:chase again, and that the best way to effect sales is for their customers to enjoy fine de:icious crops, have accomplished much by their assiduous labors. Bnt in riding through the country, and observiog how many young orchards still stand in graes or in peglected fielde, we see the continued secessity of urging on the recommendations for better management, and now that the sea. won for antama transplanting is approaching, me trust that all whil desire succees, will resolve that the trees they buy these hard times, shall be well set out, and more especially thoroughly ultivated.-Cultivator.
Expernernt tried with Dibeasid potatoes. On taking up a crop of potatoes in the first rekk of October last =sar ( 1861, I found that three parts of them were very badly affected nith disease-indeed so much so, that they mere too bad even for the food of the pigs. I n induced to try with them an experiment on smallscate, which was done as follows:-On $-\quad$ day following that on which they were dug. bad a piece of ground ( 60 feet wide by 112 $\cdots$ long) dag up to the depth of 14 inches; $\therefore$ drills were opened at ${ }^{\text {a }}$ a distance of 2 feet ill from drill; then the diseased tubers were -tiod whole, at a distance of 3 inches, set frou , in the drill; a good dusting of newly slacklime was spread over all the sets in each ill ; and ther were then covered over with $I$ to the depth of 7 inches. Nothing' more - done to said piece of ground antil this iog, when, to ay agreeable surprise, the ta made their appearance above the gur, with scarcely a blaik over the whole piece. grouad was then forted over betiveen the - to the depth of 10 inches, $s 0$ as to loosen .vaghly the noil, and nothing more was done vod once draving a little soil to the planta,
and keeping the ground clear of weeds, until the 17 th of laat July, on which day I commenced taking op the potatoes for use, and, to my artonishment, I found a cro $p$ such as I never before have witneesed since the dinease firat, attacked potatoes in this country; for they not only were most prolific, but of an nnasally large size, and up to the present date (Aagust 26) I have ost found one tuber affected by the disease. Jorn Dapirs, Gardner to Sir C. H. Coote Ballyfinn Houee, Mountrath, Queen's County.Eield.

## On the Construction of Piggeries.

We take the following useful suggestions on the best methods of constructing piggeries from a treatise on the Hog: recently published by C. M. Saxon, Barker, \& Co., New York. Too little atteution is paid to these matters hy farmers in general. No animal pays better for good feeding and proper care than the pig:-
There are few things more conducive to the thriving and well-being of swine than airy, spacious, well constructod styes, and, above all, cleanliness. The old prejudices-that any placeसrs good enough to keep a pig in, aud that filth and pig-styes were synonymous term3-are now passed away, and the necessity of attention. to this branch of porcine economy genel:ally: recognized:

Formerly swine were too often housed in damp, dirty, close, imperfectly built sheds, this was an error, and a fruitful source of disease, and of unthrifty animais.

In large establishments where numerous pig* are kept, there should be divisions appropriated to all the different kind of pigs; the nales, the breeding sows, the newly weaned, and the fattening pigs should all be kept separate ; and it were as well that in the divisions appropriated to the second and last of these four classes, there should be a distinot apartment for each animal, all opening into a yard or unchesnre of limited extent. As pigs, require warmath, these buildings should face the sonth, and be rept weather:tight and well drained. Good ventilation is also important, for it 15 needless to expect animals to make good flesh and retain their health unless they have a sufficiency of pure air. The blood requires it to give it vitality and free it from impurities, as mach as the stomach requires wholesome and atrengthening food, and when it has it not; becomes vitiated, and impairs all the animal functions.
"The blood, the fountain whence: the eqirits flow,
The generons streapo that waters every part, The motion, vigor, and warm life eonveys; To eveny moviag broathing particle."
becomes contaminated by those aerial poisons given out by the decaying regetable matier, rotten or damp litter, accumulations of dung, and animal exhalations engendered byill-ventil. ated styes.-These noxious gases are inhaled by the skin, until they enter the circulation, and impuir its vivifying fluid. It is by the action of the atmospheric air that venous blood is converted into arterial, feed from all its impurities, and rendered fit to sustain all the vital functions; hence it must be at once evident that if this important agent is in the first place contaminated, its action must be impaired and its effects cmposoned. Besides, bad smells and exhalations injure the flavor of the meat.

Damp and cold floors should also be guarded against, as they tend to induce cramp and diarrheea; and the root'so contrived as to carry off the wet from the pigs.

The walls of a well-constructed sty should be of solid masomy; the roof sloping, and furnished with spouts to carry off the rain? and floors either slightly inclined toward a ${ }^{\text {sutter made to }}$ carry off the rain, or else raised fi $n$ the ground on beams or joists, and perforated so that all urine and moisture shall drain off. Bricks and tiles are much used for the flooring of styes, but are objectionable, because, however weli covered with litter, they still strike cold; wood is far saperior in this respect; as well as because it admits of those clefts or perforations being made which we have just recommended, and which not only serve to drain off all moisture, but admit fresh air as well. The value of tie litter and dung as manure, must always be borne in mind, and all things so arranged that none of it shall be wasted.
The door of each sty ourght to be so hung that it will open inwards or outwards, so as to give the animals free ingress and erress; and to do this it should be hung across from side to side, and the animal push it up to effect its entry or exit: for if it were hung in the usual way it would derange the litter every time it opened: inwards, and be very liable to hitch. If it is not intended that the pigs shall leave their sty, thereshould be an upper and lower door, the former of which should always be left open when the weather is warm and dry, while the latter will serve to conine the animal.

There should also be windows or slides which car be opened or closed at will, to give admission to the freshair, or exclude rain or cold.

Mr. Henderson's descriptions of the styes is more lucid and practical than mere vague dir: ections, we will therefore guve it in bis own words:-"The plan which I recommend is as follows. Have a house thirty feet by fifteen, with four doors all opening outwards, and three partition walls. through the house, viz.; a wall between each of the doors, dividing the house into four compeitinents: 'The'two middle ones: I use for eding rooms; and "the other for sleep: ing-apartméntst-háving gni finer door-between: each eating and sleeping.apartments.
"The following is the most couvenieut manger for their food. Let it be as long as the house is wide, and fixed against the middle wall; in form similar to a horse manger, but not so deep, and must be divided into twelve divisions by partition bands four feet in length or height, and a little bronder than the manger is wide; thus a number will feed as well and as quiteiy together as two or thee. Before every meal the trough should be well washed and the place swept, and once in the day a little fresh litte ${ }^{-}$ placed in the slecping cnambers. Each of thesi sleepingf, and geating rooms may be temporaril divided into two, if necessary. The sleepins rooms should be dark, as animals fatten muc' more rapidly when they lie duwn and sleep afte each meal than they do when they wat der aboui. There should be a square jard : each piggery; well paved and drained, as shoui the styes also be; and where it is possible,? enclosure or a small piece of ground adjoinin is exceedingly useful."

Those who have space to admit of it will fir it advantareous to have five apartments inste: of four, and in the fifth or central one to have boiler to prepare the food, and clongts and loc ers to contain the various sto es."

Parkinson advises that in the yard or encle ure before every piggery should be a. "rubbi: post or what is still more beneficiel, two po: having a pole between them similiar to a hors leaping bar, but no revolving; this pole sho. be raised or let down to the height of the pi: as the rubbing of the animals against it cao: a freer circulation of blood, the same as 1 thesh-brush does to human bodies."

In all large establishments there should b: proper apparalus for cooking, mixing, and serving the food. For this a boiler and ste: er will be requisite, and some two or three ta which may be made of bricks plastered over the interior 10 prevent len'rage, and fixed in ground. Whe:ever it can be managed, trovshould be so situated that they can be filled. cle:ned from the exterior without interfer with or disturbing the animals at all, and this purpose, the following very simple co. vance has been recommended: "Havil flap or door with swinging hinges made to $h$ horizontally over the trough, so that it ca. moved to and fro, and alternately be tastent a bolt to the inside and outside of a man When the hogs have fed sufficiently the do swung inwards and fastened, and so reman til feeding:time, when the trough is cleanet reflled without any trouble, and the fapd back and the anmâls admitted to their fu Some persons cover the trongh with a id ing as many holes in it as there are pig t from it. This is by no means a badp then each pigselects lis own hole and cato Without interfering sith or incommodil néejhbor.

We are indebted to the kindnés of
for the following account of the Royal pigtery, at the Home Farm at Windsor. It consists of slated sheds, of sufficient length and breadth to contain about two dozen slyes, of somewhat larger dimensions than ordinary pigstyes, and arranged in two rows with a broad walk between them, from which the spectator looks into the styes on the rigint aud left of him. Each stye has an in-door and an out-door apartment, the former haviny a wooden coverlid to it, going upon hinges like the lid of a corn-bin, instead of a roof, which may he raiced to any height in hot or close weather, so as to admit any influx of air required, or even to be thrown back if neces. sary. The styes are paved with brick both within and without doors, and their floors slightly declivitous.
The following is a description of a pisgery at Lascoed Pont Senre planned and executed by Mr. J. Donaldson, 1 isteward to A.M. Storley, Esu, Brecon, South Wales:-This pirgery is constructed for the purpose of breeding and feeding on a large scale to suit a farm of sis hundred acres of turnip soil in an inland situation, where convenie.at markets render easy both the disposal of fat and lean stock. There are seven styes at the end of the steaming house which accommodate a boar and six brood sows, which are calculated to produce yearly one hun dred pigs, sisty of which will be fattened from September to April in tifteen styes, placed in two parallel rows, and made to contain two hogs in each apartment. The rest are sold as stoces. The yearly rental is from $£ 200$ to $£ 250$ according to the prices of the produce. The steam food consists of potatoes and meal, with grain to finish, and is conveyed to the styes alon ${ }^{\text {a }}$ a paved road or path, in so small fourwheeled way yon. The stramer also cooks potatoes for the working horses, and chaff for milch cows, and thus applies the original cost to sevoral purposes, and fully employs a man. The store pigs are fed in summer with clover and vetches, aud in witter with roots either raw or steaued. Water is brought to the steaming house in a pipe from the farm yards, which are all supplied by ball-cocks from elevated casks fed by a forcing pump. A dipe underneath conveys the water from the potato-washer to the pond in the store-yard, where it passes to the yard, and then meeting with the collected mois ture of the whole area of the piggery, falls through an iron grate into a paved culvert, and is conveyed to the manure pit, to which the liquid of the farmery is culiecied and brought by a drain; along thesides of the road ure sheds opening into the store-yard. The cost of erecting a piggery like this will vary from $£ 8$ n to $£ 100$, according to the price of labor and materials, and to whether the roofs be tiled or slated. The steaming:house has an upper floor to serve as a store-house for grain, meal, roots, \&c.
The piggery should always belbuilt as near to
that part of the establishment from which the chief part of provision is to come as possible, as much labour will thus be saved. If the dairy is to supply this, let it ive as near as may be to that building; or it it is to come from a brewery or distillery, then let it be near to them.

Care must also be taken to preserve the dung and urine, and some place fixed in which these mitters can be stored for manure. Wherever the swine are regularly and well managed, this will not be diffcult, for the animals will always, if they can, lay their dung at a cussance from the place where they sleep or feed. A smail paved yard, somewhat sloping, and with a gutter to scrve as a receptacle, will best answer the purpose, and thence it can be daily removed to the proper heap or tank.

We have been told of a gentleman who keeps only a few pigs for his own use, and has a double sty for them, by which meaus he is enabled to keep them exceedingly clean andsweet. Every morning the pigs are changed from one itto the other so that each sty remains unoccupied for four and tiventy hours, during which time it is thoroughly cleaned out, and of course becomes well aired, and free from all unpleasant smell. And well do we remember the pleasure with which we used to view the pigs and styes of an old friend of ours now no more. A door leading out of his benutiful flower-garden brought us to those equally well-tended objects of his pride. The styes are always kept whitened on the inside; the sloping floor carried off all moisture to a deep gutter running between the sty and the square-paved yard, each of which nclined towards it : a trough ever stood with water clear as crystal for them to drink, and the animals themselves were, by washing, currycombing, and perfect cleanliness about them, as neat and sleek as a lady's lap dog. They_were, in fact, pet pigs. Nor are we without pleasurable reminiscences of delicate spare ribs, lons, and legs of pork, and delicious sucking pigs.

Washings, combings, and brushings, are valuable adjuncts in the treatment of swine; the energies of the skin are thus roused and the pores opened, consequently the healthful functions are aided, and that inertness so hikely to be engendered by the lazy life of a fattening pig counveracted We cannot close this chapter without quoting the following account of the mode of keeping pigs in Mexico:
"Fine breeds of these useful animals are kept by many persons of wealth, as an article of trade, in the city of Mexico; and the care and attention paid to their cleanliness and comfort so far exceed any thing I have seen elsewhere, that a short account may be useful by farnishing hints to our farmers, brewers, distillers, \&c., by whom, numbers of these valuable animals could be and are conveniently kept. The premises where the business is carried on are extersive, consisting in general of good dwelling-horses; with a shop, slatghter:house, and places for singinst'e.
pigs, large bowls for rendering the lard, salting and drying-rooms, and lard-rooms, with wooden bins for containing the rendered fat, which is an article of great consumption in Spanish cookery, being used as a substi, ute for butter. There is a sosp manufactory, in which the offal fat is manufactured, and apartments were the blood is made into a kind of black-pudding, and sold to the poor. Behind all these are the styes for the hogs, generally from eight hundred to one thousand in number, which occupy a considerable range of well-built sheds about thirty feet derp, with roofs descending very low, and having the entrance through iow archey, before which is an open space the whole length of the yard, and about twenty-four feet wide, in the centre of Which is a kind of aqueduct built of stone, and filled with clear water from a well at the end of the premises. The hogs can only put their noses into this water through holes in the wall, which prevents their dirtying it, as it paoees through the whole division of the yard. This is the only liquid given them, and their food is maize or Indian corv, slightly moistened, and ecattered at stated hours on the ground, which in the yard, as well as the place where they sleep, is kept perfectly dry and clenn. They are attended by Indians with erery posgible care. There is a cold bath on the premises, which they ure obliged frequentiy to use, as cleanliness ; considered easential to their arquiring that enormons load of fat from which the princupal profit is derived. Their ease ard comfort seem also in every reapect to be studiously attended to; and the occupation of two Indian lads will cause a smile on the countenances of my masical readers onhen they are informed that they are employed from morning till night in settling any disputes or little bickerings that may arise among the happy inhabitants of this community, either in respect to rank or condition, and in singing them to sleep. The bops are chosen for the strength of their lungs, and their taste and judguent in delighting the ears and lulling the senses of this amiable har. monic society ; they succeed each other in chant. ing daring tha whole day, to the great delight and gratification of their bristly andience, who soem fully to appreciale the merit of the performers."

## Iraining Colts Young for Spocial Objecta.

The great importance of considerable regular exercise in the development of strength, yrowth, moalth, and their cognates; is, in one way or another pretty genorally recognized and roncoded. An animal cannac live without breathing ceannot breathe without.a natural anpply, of air, and cancot get a fall mataral supply of air without ample axercie or loecriotion. The oxtent to which ani animal breathes dopenda, beyond a limited point abolntoly apon hic exortiag hil locomos
${ }^{\text {li}}$ ve orgaus. In brief, breathing has been made $b_{y}$ the author of nature to depend, in a large ${ }^{\text {d }}$ egree, upor exercise as a cause, besis, and motive $\mathrm{f}_{\text {orce. The circulation of the blood generally, }} \mathrm{m}$ well as the whole process of nutrition, depends largely upon the extent in which the motive force of exercise is brought into play. A thorough and able thinker and writer says, "Though not the sole cause of the circulation of the blood, yet it (exercise) is an indispensable condition. The contracting muscles everywhere impel the blood along its course, and without the aid of conditions entablished by exercise, the motion of the fluids of the body flags and stops; the outlets of the body become choaked, and waste mattere are not disposed of; affinity of the blood for oxygen declines, and the vital flund remans anpurified; the atomach no longer digests food, because it is not taken away from that organ; the extremities lose their healthful temperature," \&c., \&c. Such are some of the reasons why cir. culation, nutrition, and general growth all depend upon exercise in so great a degree. I quote further very briefly. Eixercise "not only dotermines the amount of food and oxygen required by the system, that is absolutely necet: sary in the disposition there made of them." Thas the formation of the muscular system of all animals most certainly dependy upon exercise, and the muscular paris and powers of the horw more so than those of any other domesticated animal, because of the greater natural activity which his structure is fitted for and his bealth requires. Very many ullustrations of the infloence of exercise might be cited as the large moscular parts and powers of negroes and other laboring men, as compared with the slender limbs and little strength of those who make their growth in in-door or inantive life. The arm of the smith and sailor show its effects on particular limbs or members, when thone are used or exercised more than other parts of the system, though this has been so often referred to as to be generally admitted.

What 1 weh on this orcasion is to show the application of the principle to a new purpoos, viz., to the training of cults, and the maturing of horsea for special objects or purposes. At present, so far as I am aware, nothing more thin inherited qualitues, and good general muscular training after colts are old enougb for work, comprise about all that ie depended on to ingury excellence of power for any particular parpew or order of labor, as trotting, carrying, or dram ing. The English race-horie, and the Americas trotting-horse are very regelarly exercised; walked, trotted, or cantered, of all in suceésioy as the case may seem to require. This conns streagthem thic muscalar aystem and maintio the general vigor or muscular power as of fint tser of nataral consequéice.

But hai the principle of increasing the sim and power of the muclea of any important ph. of the body. by upeciel treatmont or exerciea
such part and fer: a specific object ever been tried? I. have h.arid of no experiment of the kind so tinr; set peresive no reuson why the principle is nol sound; why the iden cannot be made practical. Every one has been informed of the ellormous increase in the muscular puwer of Dr. Windship resulting from special training, as is equally wel! known wilh facts befure alluded to.
Though there be an iacrease of general muscular growth and p.wer, in animals and men that take much exercise, over that in those who take little, still there is a linit in the vital power of any particular individual to the ixtent of general increase of muscular power. If all parts of the system are increased in size and power in a colt or a lad, from full general exercise, it seems to follow that if some part is exercised more than unother, but not beyond its power of recuperation, that part will receive the most blood and the greatest degree of enlargement in size and merease of strensth. This is illustrated by the instances ulready cted, and the causes of it are well defined in the quotation.

Now suppose the owner of a good broud mare, wishes to raise excellent saddle hoises or hurbes that can draw unusual weights or given weight, at high speed in proportion to their own inches; why cannot this bedune? I not only do not believe it not impracticable, but the contrary. Windship commences with lifting 5001 l s, and iucreases his muscular power till he lifts a tun (I have not the nformation as to huw much he can lift at present.) This is accomplished after he las done growing, after his muscular sy,tem generally is fully matured. If he had commenced special training while get growing it is probable that his muscular growth and power would have bern still more extraordinary in proportion, or nearly in ratio to the muscular means that induced it, up to the limits of total constitutional power. I am amongst those who favor training colts from the earliest possible time ull maturits, and as men becone great runuers, walkers, lifters, etc., etc., by special training, I see not why the colt cannot have a strong back and the other accessories to great carrying puwer, or a good saddle horse, from similar aypencies. Suppose a halter broken colt, as soon as weaned; then commence with him in carry $u_{j}$ hight loads, very gradually increased till he has made his full growth, or till he is six years old. Is it not highly probable by this sort of training-the general management being good-he will be able to carry double the weight by this tume that he could have carried as easily with such training as is generally given? The same course might be adopted as to draft horses, either with heavy weights at a low gait, or light weights with high speed; but not as to both with the same animal, if a specfic suceess is aimed at. Neither can the natural adaptation of any anmal for any given special work be disregarded in as signing him to a different sort of work and ac-
tion. Natural fitness, as well as special discipline, is requisite to success. All partis of the proctss-as all the wheels of a machine-must suppurt one another with proportional depend ence and power.
The priaciple upon which vital power acts in supplying unusual furce, in such instances as we are contemplat.ng, appears to be somewhat like this: Nature in a general way, has the power of self-adjustment, is self.protecting. If gou uso juur legs, for instance, mure than other memlers, they will be worn more by the attrition and friction resulting to all substances from motion or mutter in contac:, and suffer greater exhaus. tion of their substance thus worn off. To readjust this loss the vital power impels more ilvod to the part subject to extra motion and wear, and the flow of bluod increasing in proportion to the inc:ease of action and exhausticn, the part-legts, arms, back, or shoulders-is replenished and enlarged by a steady augmentation of substance or nutition deposited from the increase of bluod, till a large proportional increase of size and strength is the resalt-of specific increase of exercise as the prime original cause; and this course of nutritive action continues till no farther supply of blood can be spared from the deneral system to any particulor part in excess withuut danger of exhausting or impairing the general health and strength.
The principle is much the same as training a tree in some particular form, by causing the sap to flow in the cesired direction-in certain branches more than any other; huth sap and blood being subject to the control of vital organrang fuce, naturally op posed to and inconsistent with general chemical combination. And, as a simple practical question, I perceive no reason why the leading muscles engaged in drawir.g, carrying, \&e., in colts, may not be increased in size and power as readily, add by similar means, in the back, shoulders, \&c., as i.، the human arpas or pedal members. It appears to me a practicalle project, and if those who have the leisure and inclination aud perseverance will give the idea a proper trial, I am satisfied that there need be no disappointmunt, but that the capacity of the horse will prove capable of special as well as general traiuing aud application, to an ex. tent not by many anticipated.-American Stock Journal.

## 秋隹ticaltaral.

## 'Thinning of Fruits.

The fulloring estract from the address of the President of the Pomological Society at its recent meeting in Boston, Mass, contains mach thet is of practical va'ue to all caltivators of fruit.
One lesson which experience has taught us is the importance of thinning the fruit, especially
of apples and pears. This branch of Pomology has received comparatively hitle attention. There is a limit io the capabilities of all created things. If you tax the encmies of an animal too severely for a long time, the result will be premature age and decay. Subject any vegetable or mineral substance to too sreat pressure, and you destroy its power of colesion. So if you pernit a tree to bear beyoad its strenoth, you injure its fruit, retard its growth, and shotten its life. All have observed that superfecundity one year produces barremess the next. Fence we beat among our farmers and gardeners of what they term the bearing sear. They invariaty designate the Baldwin apple as a tree that bears on alternate fears. But is not the cause of his alternation found in the fact, that the abuadant crop of the bearing year exhausts the encres of the tree, and absorts the pabulum so as unt to leave sufficient ahment for the formation of frut spurs for the succeeding year? Many varieties have a tendency to overbearing, especially those which produce their fruit in clusters. Nature herself teaches us the remedy for this evil, and a superabundance of blossom is generally forlowed by a profise falling of the embryo fruit. When and where this dropping is not suricient to prevent overbearing, we should resoit to the process of relieving the tree of a prortion of its fruit
The organism which carries on healthful development, in order to repeat its cyele of functions from year to year, caunst be overworked without time for recuperation. Wi:atever of nutrition goes to the support of useless branches, or a redundancy of fruit, abstracts that strength from the tree which would otherwise he appropriated to the perfection of the crop, and the development of the spurs which would bear fruit the nest year. One of the best cultuvators in the vicinity of Boston has reduced this theory to practice, with the happiest effect, in the celtivation of the pear. His system allows no useless wood, nor more truit spurs, and no more fruit than the tree can properly sustain. As a consequence, he produces every yenr superior fruit which commands the highest price. Some have doubted whether this practice can be made remuerative, except in its application to the finer fruits. But another cultivator, who ra'se, an annual crop of the best apples, assures us lant the secret of his success is the thimming of the fruit, and he has no doubt of the economy of the practice. No good farmer doubts the necessity of tininning his root crops, no vigneron the propriety of thinning has grapes. Analogy of cultivation, therefore, justifies the practice, and I entertain no question of its great mportance.

Light, air, moisture, are essential to the production of vercetable products, and especially of fine fruits. Who has not observed that the best specimens.of fruits on a tree are ordinarily those which are mos: exposed to these elements?

Who does not select the full sized ruddy fruit, which has free communion with light, heat, and air, in preference to the half fed specimen which has shared its own proper nourishment with five or six crowded nvals on the sume spur?

An experienced End lish cultivator says:"The bending of branches of thees by an over crop of fruit is most injuriuus, for the pores of the woody stalk are strained on the one side of the bend, und cuntinessed on the other; hence the requisite nuurishmat flows being partialiy shat up, the growth of the fruit is retarded in propution to the statining and compression of the stalis." This is illustrated in the overbearind cif some varieties, which from a redundancy of fruit, without the precess of early and thorourh thinning, seldum produce good specimens, and in a few yous become stinted and unhealthy trees. The overbearing of a $\operatorname{tre}$ is as much a tax upon its enorgies and constitution, as is the cxhatustion of a field by excessive crops of the same-hind year atter jear, without a rutun of nutritive materials. Inexhaustible featihty is a chimera of the imagination. Sooner or later, the richest suil will require a restoration of what has ' been abstacted by veretation. Huwever fertile al first, the constam overcroppurg of the soil is a rediction $u^{f}$ the elements on which heath and fruitfulness depend. This great pinciple of sustenance and reciprocal relations uns throurh the whole mass of life, of mind, and of matter.

> "One cry with i.ever ceasing scund, Circks Creation's ample round"

Intimately connected with this process of thinnme is the time when the work should be executed. It should not be dune befuse we can distinguish the choicest specimens in a cluster of, filit, nor delayed so long as to waste the energies of the tree. This practice, juliciousiy followed, wili supersede the necessity wistirying up the branches, will prevent injury to the tree by their breaking, and will prove decid dly economical.
"Associated, with the thiming of fivits is the expedienc; of gathering a part of the crop as soon as it atpp, oaches maturity. The remaining specimens will thereby be nath incicased in size and excellence. The fruit of a tree does not all come to maturity at the same time, hence this suceessional gathering will turn the cropto the highest. practical accomi, and will hecep the productive enernes of the trec in a healthful and profitable condition."

## The Ever-Blooming Rose.

If there is perfection in the vegetable kingdom, it is the Ever-blooming Rose. Its varieties are now so numerous, their colors so varions, and natures so different, that th:cy are arranged into five distinct classes.-Some can be grofin in all chmates rud altitudes, and upon netirly
all kinds of soil. They are fit to make a diversified garden of themselves; growing as dwarf bushes, as tall stately plants, and clothing arbors, trellis-work, dead fences, \&c., and even making hedges to fence in and shelter the garden. They are the monarchs of the flower bed, and reign triumphantly glorious uver all other Howers; and blessed are they who possess the means, the liberality, and fine taste, to purchase all kinds, and the space to grow them in perfection.
The Hybria Perpeluais or Remontanles, are generally of a stately robust growth; thive equally well upon heavy and light loams, and withstand a northern winter without protection

The Buurbons are next in hard.ness, and do best upon loamy sols, yet a slight covering of stratw tied around them in winter north of New. York, is of advantage to them.

The Bengal, Chinese or Daily, is next in hardiness, thrives both in loany and sandy soils, and is preserved better by having a little straw tied about them north of Philadelphia.
Noisette is of the same hardiness as Bengal, and thrives upon the same kind of soils. The varieties are nearly all of a rampant growth; useful for training upon fences, ends of buildings, arbors, treilis-work, pillars, verandah frames, \&c. The flowers, are generally small, double, and produced in clusters of twenty and upwards.
The Tea scented is generally of dwarf growth, profuse in bloom, and of the most delightful fragrance, which is diffused a great distance. They are less hardy than the other class, and need a coverin of straw in winter north of Baltimore. They thive best upon lirht loams and sandy luams, and will flourish in sandy soils. They frow to most perfection out of doors south of Maryland, and are the best for pot culture.
All the varicties of the five classes can be grown in the most noathern climate by dugging them un: and potting them in the fall, and keeping them in cold frimes or pits half sunk and half hanked up, and with glass sashes. and covered with mats in very cold weather, shading them from hight sun in the winter time. As hasdreds are gearly putting up cheap, glass s.ruc tures in which to grow foreign grapes, they are the best places to winter roses that cannot stand the severity of winter, as the grapevines are dormant in winter, and the roses could not he in their way, and they get the full lighit. With these advantages, people in northern latitudes can grow all kinds, and well will they be rewarded for their care.

What is a garden without a rose! As it lasts many years and takes deep rool in the ground; the soil before planting should be stirred two ieet deep and finely pulverized and enriched with short manures throughout. The black surface scrapings in woods. which is leaf mold, is the best monure for all kinds of roses.-- W. Elder, in Garderier's Mọnthly:

## Grape Fines.

Those vines which need protection should soon be taken down and covered with leaves, straw, or if the drainage is sufficiently good, with earth. The covering need not be thick, as a slight shelter will keep off the frost. Cut away most of the wood you design to have pruned, before.covering. If the vines are left exposed, do not prune, as the winter may kill them, so that your pruning would take a different course in the spring. A subscriber who has purchased vincs for the Isabplla, which turn out to be the pigeon grape, wishes to know how and when to bud. It should be done as soon as the sap starts in spring. Cut an eye about three inches in length, having attached as much wood as you can get with it; at each end of the cye cut off about a quarter of an inch of the upper bark, making the ends very thin. Next cut out neatly a notch in the bark of the vine you wish to bud, and fit in the eye to the place exactly as possible. Bind it about firmly with some soft bandage, as of matting, and clay it, taking care nor to cover the eye. Bind it about with moss and keep it moist until the bud begins to swell. As your vine throws out young shoots, pinch them off above the bud to give it more strength, and after a while keep the branch you have budded entirely. pruned down about the bed.-Jour. of Agriculture.

Mode and Time of Planting Grape Fineso -Geo. W. Campbell, of Deleware Grape nutoriety, makes the following remarks in his circular: I have found little difference in the growth of vines, whether planted in Fall or Spring: When planted in the Fall, and slightly protected during the first winter, an early start, and usually a more vigorons growth may be expected, than from vives transpianted in Spring. A somewhat elevated situation, and a deep, pervious soil, móderately rich, is best. A calcareous clay loam, well underdrained, will produce good, bealthy vines and:frait, and if aboundiog somewhat with gravel or pebbles, so mach the better. If lime does not exist naturally in the soil, it should be pretty freely supplied; and if the soil is poor, enrici it with any well decom. posed manure at hand. Fresh, or partially decomposed manure induces unhealthy growith, and disposes vides to mildew. Low situations. where water caulsettle and stagnate about the roote will noi answer. Where immediate fruiting of young vines is desired, permit bat one cane to grow'; stop, or pinch off all laterals atit one joint from the main stem'; keep the vine tied upright, and at the height of four or 'ivesfet pinch off the leading shoot. This coinse will strengthen the lower buds, and ofter give fruit the gear after plading.

## $D_{\text {eterinarg }} \mathbb{m e p a r t m e n t .}$

(Conducted by A. Smith, V. S.)

## Variola Ovina, or Small Pox in Sheep.

This singular disease has broken out in several extensive flocks in the north and west of England, attended by heavy losses, and from the latest accounts considerable anxicty was felt by he flockmasters both of Great Britain and Ireland leat its lavages should extend northward. The following communication of a Veterinary Surgeon in Dublin, published in a recent number of the Irish Farmer's Gazetlee will be read with interest:

Sir,-This disease, now prevalent in some paris of England, and designated by the French, Clavelle, is an acute inflammation of the terumentary investment of the body, associated with fever of a highly contagious nature. Pathologists divide it into distinct, conlluent, natural, and inoculated, the two formor referring to the separation or non-separation of the enlargements or papule which appear on the skin of the alfected animal; the two latter, to the causes of the disease, whether they be that of simple exposure to the affection, natural, or direct introduction of the ovine virus into the system inoculated: of these four varieties, the confluent form is more fatal than the distinct, and the natural than the inoculated.

Many diseases affecting the lower anianals are capable of remaning dormant for sometime after their respective poisons have been received into the system. This period, though varging, is technically termed the period of incubation, and is influenced by circumstances of an external nature, such as the temperature of the surrounding air, freedom from or presence of other diseases, temperament of the animal, de., causes which either hasten or delay the oruption.
Hurtel d'Arboval, in his treatise on the subject, remarke that, in warm weather the malady will show itself in ten or twelve days, but remain dormant for double that time when the temperature is low. In experiments conducted at the Royal Veterinary College, London, the period varied from seven to thirteen days. The incubative stage having expired, features characteristic of the malady appear in the form of papule or modules having a florid appearance, deeply inbedded in the skin, generally located on the inner side of the cheeks, arms, and lips, which either coalesce or remain separate, constituting confuent small pox in the former case, distinct ic the latter. In about three days the papulæ become converted into vesicles by effusion underneath the outer skin, or dermis, of a trasparent fluid. The fluid contains the virus
of the ovine pox. The contents of the vesicles become consecutively opaline, turbid, less serous, and ultimately converted into dry, hard crusts which fall and leave deprossions of various depths, to be filled up by a process of healing termed granulation. In addition to the local cbanges just described, the animal gives colstitutional evidence of this disease, by separating itself from the flock, mucous discharge from the nostrils, head and ears pendent, eye-lids swollen, with a flow of tears down the face, respiration hurried, pulse quick and indistinct, approaching dissolution.

Although the introduction of sheep pux into Ireland would be a calamity generally to be lar mented (difficult to prevent, unless the importation of English sheep be suspended for a time), and one that would most assuredly result in tha death of thousands of our sheep, the profession have furnished themselves with a weapon, nameIy, ovination or inoculation, which in the hands of the scientific veterinarian, has been, and would again be, the means of precluding the natural disease by the artificial, and thus deprive the former of its mortal potency. This practice was proposed by Chabette, in 1762 , by Bourgelat, in 1765, by Coste, 1795, and in annually resorted to in France, Austria, Prussia, and Italy. In a treatise by Hurtel d'Arboval it is set forth that of 32,317 inoculated sheep, 32,121 took the artificial disease and only 270 died. In order to test its prophylactic power, 7,697 of the successfully inoculated sheep were exposed to the influence of contagion, and not one suffered a second time; but it is not-necessary to travel to the continent for statistical information.

Professor Simonds, in his lectures, states that he found the mortality of the nutural disease to be from 50 to 75 and even 90 per cent., wheroas the number of deaths attending ovination, when properly performed, averaged five, but rarely reached ten per cent. Yet, much as may be said in favour of the operation, one objection exists. The inoculated and natural disease are equally contagious, hence the absolute necessity, when ovation is practised, of so far isolating the affected animals as to prevent even indirect contact with the healthy.

The most benign case of distinct small pox in the vesicular stage baving been selected, the operator choosea a solitary vesicle having clear aqueous contents, and places the point of instrument (which is a kind of needle made for the purpose) barely far enough into the vesicle to moisten the top. This may be preserved for purposes of inoculation for several weeks. If necessary, the operator may at once insert point of same needle between the cuticle, or outer skin, and dermis or true skin, avoiding the production of the smallest drop of blood. Bear in mind that the incision cannot he too minute, and the needle cannot contain too little fluid. The parte operated on are, the under surface of the teats
which is the most advantageous, inner part of the thicehs, postero imperior part of the abdo. men, and lateral parts of the sternum. Evidence of successfui inoculation will be given in about three days, by a speck, remarkable for the intensity of its reduesi, which enlarges simultancously with the increase of inflamisation till the eighth day. Tenth shows unbilication of the centre; thirteenth. blanched appearance, due to the olevation of the cuticle from the true skin, and effusion underneath of a transparent flud; eightcenth, a brown scab, which falls, leaving a chasm to be filled up by a process of reparation, termed granulation. As it someumes happens that the vesicle of inoculation is the only one which appears, for purposes of ovination the fluid therein contained may be used, and reliance placed on its reproductive potency.
In oider to render the virus of sheep pox mild. er in its constitutional effects, it has been proposed to pass it through the systems of other animals; but all such attempts have signally failed. Sheep pox cannot be transmitted to the of goat, or human subject, neither shall the mall pox of man or the amalogous vaceme disease of the cow produce a like atfection in the sheep. Purfication, however, can be effected by causing it to travel successively through the ssstems of several sheep ; lymph so procured derenerates a disease which goes through its several stages more regularly, renders the constitutional disturbance and local ulceration less; bence the losses are fewer, and the management of the existing disease easier. Having operated on a flock of healthy sheep, they should be divided into several lots, to prevent crowding (which is apt to induce a malgnant form of the disense), provided with well ventilated apartments, supplied frequently with fresh water, and allowed good, nitrogenous food. In the majority of instances the foregoing cursory remarks (which are merely intended to convey to the reader a rough notion of the disease in some of its forms) will, I think, he found suilicient, if properly carried nut, to ensure more than aver-aresuccess.-Yours, \&c., Andrew Ganiry, V S., Usher's Quay Dublin.

## Cransactions.

## Prize List, Provincial Exhibition.

I'he following is the corrected list of the Prizes awarded at the Seventeenth Annual Exhibition of the Agricultural Association, . held at Toronto, September 23 to 26, 1802:

## Class 1:-blood horses-(31 Entries.)

 Judges.-E. Wilmot, Kingston ; G. Bennett, Crbourg; Geo. Robson, London; Capt. Tyrwhit, Bradford.Best thorough-bred stallion, Thomas Downing, Oshawa, "Young Sir Tatton," $\$ 40$; 2nd do, Ed. Arkland, Oshawa, "Kennett:" \$25; 3rd do, Gen Cooper, Toronto, "Highiyer," $\$ 12$.

Best 3 years old stailion, Thomas Downing, Oshawa, "Imperator," subject to proof of being thorough-bred, \$22; 2nd do, Simon P. Dumond, Scarboro, "Wagoner Eelipse," subject to proof of being thorough bred, $\$ 14$; 3rd do, Geo. G. Grange, Guelph, "Pluto," $\$ 7$.

Best 2 years old stallion, George Palmer, Guelph, subject to proof of pure breeding, $\$ 14$.

Best Yearling coit, John Dew, Yorkville. \$8; 2nd do, Geo Palmer, Guelph, subject to proof of being pure bred, $\$ 6$.

Best thorough-bred stallion of any age, Ed. Arkland, Oshawa, Diploma.

Best three years old filly, James White, Bronte, "Annie Laurie," \$18; 2nd ${ }^{\circ} 0^{\circ}$, John Dew, Yorkville, \$11.

Best 2 years old filly, James White, Bronte, $\$ 14$.

Best yearling filly, Jas. White, Bronte, $\$ 8$.
Best mare and foal, or evidence that the foal has been lost, James White, Bronte, $\$ 22$; 2nd do, John Dew, Yorkville, \$14; 3rd do, Geo. Palmer, Guelph, subject to proof of being. pure bred, $\$ 6$.

Extra prize-Thorough-bred mare in foal, James White, Bronte, subject to production of foal, \$8.
class if.-agricultural horses-(113 Entries.)
Judges.-Jacob Young York, Co. Haldimand ; John Bobier, Tyrconnell; Matthew Joness, Darlington.
Best stallion for agricultural purposes, Thos. Gowland, York, Grand River, $\$ 40$; 2nd do, Hector Scott, Brooklin, \$25 ; 3rd do, George Gowland, Woodbridge, \$12.

Best 3 years old stallion, Alerander Burgess, Agincourt, \$22; 2nd do, John Hewer, Guelph, \$14; 3rd do, James Ferris, Galt, \$7.
best 2 years old stallion, Thomas Teasdale, Grahamsrille, \$14; 2nd do, G. Higginbottom, Balsam, \$10; 3rd do, K. Graham, Belleville, $\$ 7$.

Best yearling colt, Robert Armstrong, Markham, $\$ 8$; 2nd do, Richard Power,: Columbus, 86 ; 3rd do, George Alton, Nelson, \$4.

Best agricultural stallion any age, Thomas Gowland, York, Grand River, Diploma.

Best 3 years old filly, George Scott, Woburn, $\$ 18$.

Best 2 years old filly, George Scott, Woburn, $\$ 14$; 2nd do, Charles Pilkey, Clare ${ }_{i}$ mont, \$9; 3rd do, James Lawric, Malvern, $\$ 4$.

Best yearling filly, George Gray, Mayfield, \$8; 2nd do, James Nimmo, Clark's Mills, $\$ 6$.
Best brood mare and foal, or evidence that the foal has been lost, Thomas Gowland, York, Grand River, \$22; 2nd do, Robelt Beath, Darlington, \$14; 3rd do, John Mcore, Islington, \$6.

Best span matched farm or team liorses, John Clark, Brampton, \$20; 2nd do, Wm. Elford, jun., te:vnship of Darlington, \$15; 3rd do, Andrew Allison, Bu nhamthorpe, \$10.

Remarks by Judges.-The judges beg leave to remark that the horses exhibited in this class were very superior, and show a great improvement upoñ former years, more particularly in the two year old stallions. The judyes are of opinion that the system of publishing. catalogues and placing them in the hands of judges should be dispensed with, and that the judges should not know who the exhibitor is, or where he came from. The judges would also suggest that, were there a second ring to exhibit the horses in it would greatly expedite business, as two sets of judges could then act at the same time.
class mo-road or carriage h roes(171 Entries.)
Judges.-George Robson; Whitby; Alex. Alcorn, Cobourg ; George Taylor, Belleville ; Charles DeBlaquiere, Woodstock.
Best roadster or cariage stallion, 4 years old and upwards, James Armstrong, Yarmouth, \$40; 2nd do, Robert Stephens, Streetsville, \$25; 3rd do, J E. Davis, Richmond Hill, $\$ 12$.
Best do, 3 years old, John Gibson, Newcastle ; 2lid do. J. S. Paimer, Rourgs Hill, \$14; 3rd do, Marmaduke Laidman, Bübrook, $\$ 7$.

Best do, 2 years old, Jacob. Stong, Yorkville, $\$ 14$; 2nd do, Thomas Webb, Toronto, \$10; 3rd do, Donald Robertson, Queenston, $\$ 5$

Best yearling colt, Johun Colley, Mourt Hurst, $\$ 8$.
' Best:stallion of any age, James Armstrong, Yarmouth, Dip.

Best French Canadian stallion, James John-
son, Cooksville, \$30; 2nd do, John Miller, Castleton, 20 ; 3rd do, James Fitzsimmons, St. Thomas, $\$ 10$.
Best 3 years old roadster filly, Thomas Smith, Derry West, \$18; 2nd do, Joln Boulton, Toronto, $\$ 11$.

Best 2 years old filly, Robert Beith, Darlington, 814 ; 2nd do, George Cooper, Toronto, \$9 ; 3rd do, A. H. J. Wadsworth, Toronto, $\$ 4$.
Best yearling filly, James Hugill, Yorkville, $\$ 8$; 2nd do, John Boulton, 'loronto, $\$ 6$.

Best bro, dma.e and foal, or evidence of foal having been lost, Felix Graham, Belleville, \$22; 2nd do, James Preston, Hornby, \$14; 3rd do, Simon Shunk, Concord, \$6.

Be.t pair of matchea carriage horses, John Niekerson, Midulleton, \$20; end do, Gerrge $\mathrm{S}_{3}$ Daintry, Coboury, $\$ 15$; 3rd d), John Lindsay, Woodstuck, \$10.

Best single carriage horse in harness, Henry Lutes, Boitun, \$10; 2nd do, Donald Cameron, Kleinburg, $\$ 8$; 3id do, John Elliott, Duffin's Crrek, $\$ 6$.

Best saddle horse, Hon. J. Ross, Toronto, \$10; 2nd do, Hendrie \& Co., Hamilıon, \$8; 3id do, John Nickerson, Delhi; Norfolk, \$6.

## EXTRA ENTRIES.

Forest Pony, imported from Scotland, B. A. McDorald, Toronto, $\$ 3$.

Parr of Ponies, Hiram Anderson, Galt, \$4.
A hotse exlibited by Mr. Powell, Lewiston, N. Y., "King Georse," nut entered, commended.

Remark by Judges.-Wo beg to recommend that in future exhibitions there should be a second ring for the purpose of vian ing the ho:srs in. The judging could then be done in a more satisfuctory manner, and with a saring of tine.
class iv.-heavy draygut horses.-(62 Entries.)
Judges.-G. S. Burrill, Brighton; John Dunlop, Woodstock.

Best heavs drauglt stallion, John Sanderson; Markham, imported from England since last show, $\$ 120$; 2nd do, Robert Ferris and W. Ritchie, Richnond Hill, $\$ 25$; 3rd do, Jos. Tbompson, Markham, \$12.

Best 3 years old stallion, J. Wilson, Osha. wa, \$22.; 2nd do, John: Shedden, 'Toronto, $\$ 14$.
Best 2 years old stallion, Jotin Sanderson Markham, imported from Engiand sin cet
dow, \$42 ; 2nd do, James McConnachie, Oronr, \$10 ; 3rd do, William Jackson, York Vills, \$5.
Best yearling colt, John Miller, Brougham, §8; 2nd do, E. Foster, Humber; \$6; 3rd do, James Àrmstrong; 'Toronto, \$4.
Best draught stallion, of any age, John Sanderson, Markham, Diploma.
Best 3 years old filly, J. G. L. Pearson, hing, \$18; 2nd do, George Miller, Markham, ill ; 3rd llo, George Scott, Scarboro. 86.
Best 2 years old tily, George Miller, Markham, \$14; 2nd do, James Young, Mayfield, 89.

Best brood mare and foal, or evidence that the foal has been lost, John Miller, Brougham, $\$ 22$; 2nd do, James Nimmo, Kingston, \$14; 3rd do, Jöhn Wilson, O hawa, \$6.
Best span of draught horses, John Thompcon. Whitbv, $\$ 20$; Ind dn, James Lawrie, Scarboro, \$15; 3rd do, John Shedden, Toron$10, \$ 11$.
Remarks by Judges.-Great delay and consequent inconvenience therefrom was caused by the want of another horse ring, the neressity for which was felt last yoar, and a recommendation made by the judges to that effect. This season has shown more fully the requirement of such addditional ring, as the judges in this class have only been enabled to make their return at this late hour of Thursday at five o'clock. The wrong classing of animals has causod much troub'e to the judges, as well as probable losses to the owners; at least the judges in this class had to pass over animals that might have been worthy of prizes if entered in their proper class. But this is a dificulty which must only be remedied by the exbibiters, but the suggestion is offered in the hope that the committee may devise some method to obviate the error for the future:
adSS A.-horses of iny breed.-(51 Entries.)
Judges.-A committee of the judges of all the other classes of horses.
I'he best stallion of any age or breed, Jas. armstrong, Yarmouth, Eigin, Diploma and Gold Mfdal.

## CATTLE.

class v.—Ddrhams.-( 142 Entries.)
Judges.-John P. Wheler, Scarboro ; John Sules, London ; Robert C. Smith, Chinguacousy; E. A. Harland, Guelph; Samuel Dickenson, Port Hope; Johin Wadè, Port Hop:

Best bull 4 years old and upwards, George Miller, Markham, "Prince of Wales," \$36; 2nd do, Edlivard Jones; Thorold, "Robiu Hood," $\$ 24$; 3rd do, James White, Bronte, "Milton," \$16; 4th do, F. W. Stone,,Guelph, "Third Grand Duke." $\$ 8$.

Best 3 years old bull, Jchn White, Georgetown, "Halton 2d," \$32.; 2nd do, Gavin Craig, Grafton, "Comet," \$20 ; 3rd do, D. Robertson, Queenston, "Alfred," \$12 ; 4th do, Simon Shunk, Concord, "Goldfinder," $\$ 6$.

Best 2 year: old bu.l, Jolnn Miljér, Brougham, "Canadian Punch," \$24; 2nd do, Jas. Kirkland, Indiana, "Robie Burns," \$16; 3rd do, Henry Talbot, Everton, "Young Prince of Wales 2d," $\$ 9$; 4th do, Brodie, Campbell \& Co., Jefferson Co., N. Y., "Iron Duke" $\$ 5$.

Best one year old bull, John Snell, Edmonton, "Baron Solway," \$20; 2nd do, Arthur Hetherington, London, "Lord Portman," $\$ 12$; 3rd do, George Cooper, Toronto, "Young General Havelock," \$8; 4th do, Thomas Stock, Waterdown, \$4.

Best bull calt (under 1 year '1) John Snell, Edmontion, "Robin Hood, 16; 2nd do. John Snell, Edmonton, "Sir Colin," $\$ 10$; 3rd do, Fred. W. Stone, Guelpis, $\$ 6$; 4th do, Fred. W. Stone, Guelph, \$3:

Best bull of any age, George Miller, Markham, "Prince of Wales," Diploma.

Best cow, Samuel Hodgskin, Guelph, "Snowdrop," \$20; 2nd do, Arthur Hogge, Guelph, "Mary," \$12; 3rd do, Thos: Stock, Waterdown; "Betsey," 88; 4th do, Jobn Thomson, Whitby, " I ady of A thelstane," \$4.

Best 3 years old cow, F. W. Stone, Guelph; "Isabella 4th," $\$ 16$; 2nd do, H. P. W.elford, Wondstock, "Rufe" \$10; 3rd do, Thomas Stock, Waterdown, "Lizzie," \$6; 4th do, Henty Jennings, Victoria Square, "Snowdrop, ${ }^{\prime} \$ 4$.

Best two years old heifer, F. W. Stone, Guelph, "Cambridge 2nd,? $\$ 12 ;$ 2nd do, Jas. Vine, Niagara, "Blosšom" \$8; 3rd do; Samvel. Hodgskin, Guelph, "Meta," $\$ 5$; 4th do, F.. W. Stone, Guelph, "Matchless," \$3:

Best yearling heifer, F. W. Storim, Guelph, "Sanspareil 7th," $\$ 10$; 2nd do, F.W. Stone, Guelph, "Mair', of Honor," $\$ 6$; 3rd do, Henry Jennings, Markham, "Lady Anne," \$\%; 4th do, F. W.. Stone, (Xuelph, "Dụchess of Oxford 2nd," $\$ 2$.

Best heifer calf under one year, $\dot{F}$. W. Stone, Guelph," Duches of York . Ind," $\$ 6$;

2nd do, Arthur Hogge, Guelph, \$4; 3rd do,
F. W. Stone, Guelph, $\$ 2$; 4th do, John Dew, Yorkville, \$1.

Best herd of Durhams, consisting of one bull and five cows or heifers, or cows and heifers, of any age, F. W. Stone, Guelph, $\$ 40$.
class vi.-drvone.-(110 Entries.)
Judges.-John Dew, Yorkvilie ; Richard Harper, Whitby ; John B. Carr enter, Simcoe, Norfolk.
Best bull, 4 years old and upwards, John Davey, Leskard, "Lord John Russell," \$36; 2nd do, Thomas Allen, Whitby, "Devonian," 824; 3rd do, Charles Sefton, Westminster, "Sir Luton," 816; 4th do, E. G. O'Brien, Shanty Bay, Barrie, " Prince of Wales," $\$ 8$.
Best 3 years old bull, Chris. Courtice,Bowmanville, "Conqueror," \$32; 2nd do, Daniel Tye, Wilmot, " Wilmot," \$20; 3rd do, Chris. Courtice, Bowmanrille, " Duke," $\$ 12$.

Best 2 years old. bull, J. \& H. Spencer, Brooklin, "Prince of Wales," \$24; 2nd do John Goodall, Galt, "Napoleon," $\$ 16$; 3rd do, Daniel Tye, Wilmot, "Lord Elgin," $\$ 9$; 4th do, John Pincombe, London, "Baby Bull the 3 rd ," $\$ 5$.
Best one year old bull, Chris. Courtice, Bowmahville, "Garibaldi"" \$20; 2nd do, John Pencombe, London, "Samson 4th," \$12; 3rd do, Chris. Courtice, Bowmanville, $\$ 8$; 4th do, Samuel Peters, sen., London," Wildiar," \$4.

Best bull calf, under one year, Chris. Courtice, "Governor," \$16; 2nd do, John Pinoombe, London, "Baby Bull 6th," \$10; 3rd do, C. Courtice, Bowmanville, "Prince AIfred," $\$ 6$; 4th do, John Pincombe, Iıondon, "Eardley Bull," $\$ 3$.
Best bull of any age, Chris. Courtice, Bowmanville, "Conqueror," Diploma.
Best cow, Chris. Courtice, Bowmanville, "Beauty," \$20; 2nd do, Chis. Courtice, Bowmanville, "Stately," \$12; 3rd do, John Moore, Islington, "Beauty," \$8; 4th do, John Pincombe, London, "Lady Quartlè," $\$ 4$.

Best three jears old cow, John Pincombe, Londou, "Lady Quartley 2ud," \$16; 2nd do, John Pincombe, London, "Lady Young Beauty," 810 ; 3rd do, John Moore, Islington, "Jessie," \$6; 4th do, G. Z. Rykert, St. Catharines, "Jessia," \$6.

Best 2 years old heifer, H. \& J. Spencer, Brooklin, "Princess Royal," \$12; 2nd do, John Pincombe, London, "Lady Baker," \$8;

3rd do, John Pincombe, London, " Lady. Boutcher,' 85; 4th do, Chris. Courtice, Bowmanville, " Gay Lass," $\$ 3$.
Best 1 year old heifer, John Pincombe, London, "Lady Quartley 4th," \$10; 2nd do, John Pincombe, London, "Lady Eardley 2nd," $\$ 6$; 3rd do, D. Tye, Wilmot, "Sophia 5tb," 84 ; 4th do, John Pincombe, London, "Lady Young Beauty 4th," 82.

Best heifer calf, under one year, Chris. Courtice, Bummanville, \$6; 2nd do, Chris. Courtice, Bowmanville, $\$ 4$; 3rd do, John Moore, Islington, 82; 4th do, Daniel Tye, Wilmot, "Scphia 6th," \$1.
Best herd of Devons, consisting of one bull and five cows or heifers, or cows and heifen of any age, John Pincombe, London, $\$ 40$.

The herd exhibited by Chris. Courtice, Bowmanville, highly commended.
: class vir.-herrfords.-(32 Entries.)
Judges.-Geo. Murton, Guelph; D. D. Rogers, Kingston; Edward Jones, Stamford ; Wm. Gardner, Barrie.
Best bull, 4 years old and upwards, J. R. McMicking, Queenston, $\$ 36$.

Best 2 years old bull, F. W.Stone, Guelph, "Patiot," $\$ 24$.
Best 1 year old bull, F. W. Stone, Guelph, "Sailor," imported from England since las show, $\$ 60$.

Best bull calf (under one year,) F. W. Stone, Guelph, "Guelph," \$16; 2nd do, J. R. McMicking, Queenston, $\$ 10$.

Best bull of any age, J. R. MclCicking, Queenston, Diploma.

Best cow, F. W. Stone, Guelph,"Gentle." $\$ 20$; 2nd do, F. W. Stone, Guelph, " Hewe," \$12; 3rd do, J. R. McMicking, Queenston, $\$ 8$; 4th do, F. W. Stone, Guelph, "Baro. ness," $\$ 4$.

Best 3 years old cow,F. W. Stune, Guelph, "Bonny Lass," \$16; 2nd do, F. W., Stone, Guelph, "Verbena," \$10; 3rd do, F. W. Stone, Guelph, "Princess," \$0; 4th do, J. R. McMicking, Queenston, $\$ 4$.

Best 2 year old heifer, F. W. Stone, Guelph, "Graceful," imported from Eugland since last show, \$24; 2nd do, F. W. Stone, Guelph, " Gentle 2ud," \$8.

Best 1 year old beifer, F. W. Stöne, Guelph " Wild Rosé" imported from Eipg land since last show, $\$ 20$; 2nd do, F. WW. Stone, Guelpb, "Sweatheart," $\$ 6$.

Best heifer calf (inder one year,) F. W.

8tone, Guelph, "Baroness 2nd," \$6; 2nd do, F. W. Stone, Guelph, "Neckiace," $\$ 4$; 3rd do, J. R. McMicking, Queenston, $\$ 2$; 4th do, F. W. Stone, Guelph, "Gentle 3rd" \$1.

Best herd of Herefords, consisting of 1 bull and 5 cows or heifers, or cows and heifers, of may age, F. W. Stoue, Guelph, \$40.
class vilt.-AYRshires.-( 100 Entries.)
Judges.-Henry Battell, Grafton; Joseph
Rowat, Nilestown ; John Ker, Drummondville.
Best bull 4 years old and upwards, Joseph Boyle, Flamboro, "Norval" $\$ 36$; 2nd do, R. I. Denison, Toronto, "Lippincott," \$24; 3rd do, John Torrance, Scarboro, "Wilton," \$16.

Best 3 years old bull, R. L. Denison, Toronto, "Bulrush," \$3:.

Best 2 year old bull, James Nimmo, Clark's Mills, "Watty 2nd," 824 ; 2nd do, Brodie, Campbell \& Co., Jefferson Co., N. Y. "Dr. Hornbook,' $\$ 16$; 3rd do, G. H. Ryland, Picton, 89 ; 4th do, George Scott Woburn, $\$ 5$.

Best 1 year old bull; P. R. Wright, Cobourg, "Lord Clyde," \$20; 2nd do, Simon Beattie, Markham, "Carrick Farmer," \$12.

Best bull calf under 1 year, P. R. Wiight, Cobourg, "Waverley," \$20; 2nd do, S. Beaitie, Markham, "Roby Burns,"’ $\$ 10$; 3rd do, P. R. Wright, Cobourg, "Garibaldi," \$6; sth do, R. L. Denison, Toronto, "Dover Court," \$3.

Best buli of any age, P. R. Wright, Cobourg, "Lord Clyde," Diploma.

Best cow, P. R. Wright, Cobourg, "Peerless," \$20; 2nd do, P. R. Wright, Cobourg, « Buttercup," \$12; 3rd do J. F. Converse, Jefferson County, N. Y., \$8; 4th do, Brodie, Campbell \& Co., Jefferson Countr, N. Y., "Lady Ayr," \$4.

Best 3 years old cow, J. P. Wheler, Scarboro, \$16; 2nd do P. R. Wright, Cobourg, "Mayday," $\$ 10$; 3ıd do R. In Denison, Toranto, "Poppy" \$6; 4th do do do "Daisy," 84.

Best two years old heifer, Simon Beattie, Markham, imported from Scotland, 1862, \$24; 2nd do P. R. Wright, Cobourg, " Milkmaid 2nd," $\$ 8$; 3rd do Brodie, Campbell \& Co., Jefferson County, N. Y. "Nainnie," \$5; 4th do Jotin Torrance, Scarboro, "Beauity;" $\$ 3$.
Best one year old heifer, John Miller, Brougham, $\$ 10$; 2nd do John. Torrance, Scarboro, "Fine Ear," 86; 3rd do Geo Mil-
ler, Markbam, "Music," \$4; 4th dd P. R. Wright, Cobourg, "Nora Creina," $\$ 2$.

Best heifer calf, under one year, Simon Beattie, Markham, " Mountain Maid," impored from Scotland, 1862, \$12g 2nd do P. R. Wright, Cobourg, "Bessie Bell," \$4.; 3rd do John Torrance, Scarboro, 82; 4th do R. I. Denison, Toronto, "Miss Neville," \$1.

Best herd of Ayrshires, consisting of one bull and five cows or heifers, or cows and heifers of any age, P. R. Wright, Cobourg, $\$ 40$.
class ix.-Galloway, and polled angus or aberdeen cattle-(79 Entries.)
Judges-W. Woods, Hastings; Geo. Bell, Vaughan; Geo. Roddick, Cobourg.

Best Bull, four years old and upwards, Tames Graham, Woodbridge, "Black Jock," $\$ 36$; 2nd do, James Nimmo, Clark's Mills. "Prince Albert," \$24; 3rd do, John Fleming, Vaughan, \$16; 4th do James Auld, Hamilton, \$6.

Best three years old bull, A. Kyle, Ayr, "Prince Albert" \$32; 2nd do, E. W. Thomson, Toronto, \$20.

Best two years old bull, Geo. Anderson Varna, \$24; 2nd do, G. Z. Rykert, St. Catharines, "Clear Grit," \$16; 3rd do, Alex. Karr, Lendon, $\$ 9$; 4th do, James Summerville, Coleraine, " Black Bob," \$5.

Best one year old bull, John McClain, Clover Hill, \$20; 2nd do, John Snell, Edmonton, "Dred," \$12.

Best bull calf, under one year, Jas. Graham, Woodbridge, "McQuhorn," \$16; 2d do, And. Kyle, Ayr, \$10; 3rd do, Arthur Mo Neil, Woodbridge; \$6; 4th do, John Snell, Edinonton, "Duncan," \$3.

Best bull of any age, Jas. Nimmo, Clarke's Mills, "Prince Albert," Diploms.

Best cow, James Nimmo, Clark's Miils "Lady Favorite" \$20; 2nd do, John Fleming, Vaughan, \$12 ; 3rd do, John Snell, Edmonton, "Bonnie," $\$ 8$; 4th do, do, do, "Sall;" \$4

Best three years old heifer, John Snell, Edmonton, "Blooming Heather," \$16; 2nd do, Jas. Nimmo, Clark's Mills, "Queen Victoria," \$10 ; 3rd do, A. McNeil, Woodbridge, 66 . 4th do; John Snell, Edmonton, " Lucy," \$4.

Best two years old heifer, John Suell, Edmonton, "Blooming Beauty," \$12; 2nd do; Jas. Auld, Hamilton, :88; Srd do, John Moore, Islington, \$5; 4th do, Geo: Miller,: Markham, \$3.

Best one-year old heifer, Arthur McNeil, Woodbridge, $\$ 10$; 2nd do, John Fleming, Vaughan, \$6; 3rd do, John Snell, Edmonton, "Lavinia," \$4; 4th do, John Fleming, Vaughan, $\$ 2$.
Beit heifer calf, under one year, John Snell, Edinonton, "Pocahontas," \$5; 2nd do, James Nimmo, Clark's Mills, "Lady Barnet 3d," 84; 3rd do, Juhn Fleming, Vaughan, 82.; 4th do, David Messenger, Cooks ille, $\$ 1$.

Bost herd of Galloways and Polled Angus or Aberdeen cattle, consisting of one bull and five cows or heifers, or cows and heiters of any age, John Snell, Edmonton, \$40.

CLASS X. -THE PRINCE OF WALES PRIZE, AND PRIZES OPEN TO ALL BREEDS OF CATTLE. -(61 Eutries.)
Judyes.-Joln P. Wheler, Scarboro ; John Stiles, London; E. A. Harland, Guelph ; Robt. C. Sinith, Brampton ; Samuel Dickenson, Port Hope ; John Dew, Yorkville; Geo. Roddick, Cobourg; Henry Battell, Giafton.
Best Duham bull, of any age-prize presented by His Royal Highness the Prince of Wales, George Miller, Markham, "Prince of Wales," $\$ 60$.

For the best bull, of any age or breed, George Miller, Marklaam, "Prince of Wales," diploma and Silver Medal.
For the best animal in the yard, male or female, George Miller, Maricham, Durhan Bull "Prince of Wales," diploma and silver medal.
class xl-Grade cattle.-(64 Entries.)
Judges.-Duncan McVicar, Chatham; Robt.
Gilbbons, Goderich ; Wm. Boynton, Reach.
Best.grade cow, Samuel Hodgskin, Guelph, \$20; 2d do, Thomas Stock, Waterdown, \$12; 3d do, James Bellwood, Newcastle, $\$ 8$; 4th do, Jacob Laiumer, Maple, $\mathbf{\$ 5} \mathbf{5}$.

Bešt three years' old cow, James Bellwood, Newcastle, \$16; 2nd do, Thomas. Stock, Waterdown, $\$ 10$; 3rd do, W. R. Forster, Credit; \$6;'4th do, Jámes R. Todd, Brampton; \$4.

Best two years' old heifer, Arthur Hogge, Guelph, $\$ 12$; 2nd do, Samuel Hodgskin, Guelph, $\$ 8$; 3rd do, Albert Parker, Cooksville, $\$ 5$; 4th do, Samuel Hodgskin, Guelph 83.

Best oine year old heifer, John Gill, Grabarisisille; $\$ 10$; 2 nd do; do, do, $\$ 6$; 3 rd do,

Joseph Capner, Kleinburg, $\$ 4$; 4th do, John Rose, Toronto, $\$ 2$.

Best heifer calf, under one year, Geo. Miller, Markhan, 86 ; 2nd do, Arthur Hogge: Guelph, \$4; 3rd do, James Bellwood, Newcastle, \$2; 4th do, J. R. Todd, Brampton, \$1.

## TIE FERGUS CUP.

Best grade heifer, not more than tro years old on March 1, 1862, the produce of a pure bred Durham bull, having a recorded pedigree, and of a cow of any breed, not more than one remore from thorough bred, Prize given by the late Hon. A. Fergusson. Arthur Hogge, Guelph, "Ringlet," Siliver Cup.
clags xil.-fat and working catter any breed.-(32 Entries.)
Judges.-Robert Kirkwood, Hamilton ; Robert Best, Niagara; Henry Anarows, Kingston.
Best fat ox or steer, Jno. Gculd, Cooksville, $\$ 30$; 2nd do, Jas Vine, Lincoln, St. Catharines. $\$ 20$; 3rd do, Horace Capron, Paris, \$12.

Best fat cow or heifer, Jno. Mitchellrie, London, $\$ 30$; 2nd do, Heury Gould Whitby, $\$ 20 ;$ Brd do, W. Donaldson, Woodstock, $\$ 12$.
Best yose of working oxen, Jno. Baker, Waterdown, $\$ 20$; 2 2 d do, Wm. Armstrong, Markham, \$12; 3rd do, Jno. Henry, Yorkville, $\$ 8$.

## SHEEP-LCNG WOOLLED.

Class xill-Leleesters.- 228 Entries.)
Judscs,-J. R. Ireland, East Flamboro; Jobn
Simith, Hamilton; A. Sanderson, Crạmahe.
Best ram, two shears and over, William Waites, Gore of Toronto, $\$ 16$; 2d do, John Robson, London, $\$ 10$; 3d do, Jobn Snell, Chinguacousy, \$0.

Best shearling ram, John Snell, Chinguacousy, \$16;2d do, do, do, \$10; 3d do, do, do, | §̄ |
| :--- |
| . |

Best ram lamb, George Jackson, Gore of Toronto, $\$ 8$; 2d do, do, do, \$4.; 3d to, Johan Robson; London; \$2.
Best 2 ewes, two sheare and over, Ghrigtopher Walker, London, $\$ 16 ; 2 \mathrm{~d} \mathrm{do}$ do, do, $\$ 12 ; 3 \mathrm{~d} \cdot \mathrm{do}$, Jolin Snell, Chinguacousy, \$6.
Best 2 shearling ewes, Christopher Walker, London, \$12; 2d do, Jobin Snell, Chingua-
cousv, \$8; 3d do, John Miiler, Pickering, 84.

Beat 2 ewe lambs, Christopher Walker, London, \$6; 2d do, Joln Snell, Chinguacousy, §4; 3d do, do, do, \$2.
Class xif.-Corswolds.-(62 Entries.) Judges.-Wm. Caldwell, Trafalgar ; Jobn Foott, Port Hope; Thomas Waters, Guelph.
Best ram, two shears and over, F. W. Stone, Guelph, \$16 ; 2d do, do, do, \$10; 3d do, do, do, \$5.
Best shearling ram, F. W. Stone, Guelph, $\$ 16$; 2d do, do, do, \$10; 3d do, John Suell, Chinguacousy, $\$ 5$.
Best ram lamb, John Snell, Chinguacousy, $\$ 8 ; 2 \mathrm{~d}, \mathrm{do}$, do. do, \$t y 3d do, do, do, \$2.
Best 2 ewes, two sheors and over, John Snel! Chinguacousy, \$16; 9d do, F. W. Stone, Guelph, \$12; 3d do, George Niller, Markham, \$6.
Best 2 shea ling ewes, F. W. Stone, Guelph, $\$ 12$; 2nd do, do, do, $\$ 8$; 3d do, Thomas Smith, 'Toronto Township, \&\%4.
Best 2 ewes lambs, John Suell, Chinguacousy, \$6; 2d.do, do, do, \$
class xv.-other long woohled sheepnot leicasters, or cotswolds,-

## ( 94 Entries.)

Judges.-James Young, Indiana; Joseph Fennell, Bradford; Henry Jennings, Mariham.
Best ram, two shears and over, John Miller, Pickering, $\$ 16$; 2d do, John Snell, Chinguacousy, \$10; 3d do, George Miller, Markham, $\$ 5$.
Best shearling.ram, J.\&.M, Kerby, Norval, imported from England, 1862. $\$ 48$; 2d do; Johr Snell, C Chinguacousy, $\$ 10 ; 3 d$ do, do. do, \$5.
Best rain lamb, George Miller, Markham, \$8; 2nd do, George Jackson, Castlemore, \$4; 3 d do, do, do, \$2.
Best 2 ewes, two shears and over, Johu Miiller, Brougham, \$16; 2d do, Jobn Snell, Edmonton, \&12; 3d do, John Randali, Paris, $\$ 6$.
Best 2 shearling ewes, Win. Jeffery, Whitby, \$12; 2d do, John Snell, Edmontoí, \$8; 3d do, John Long, Londoni; $\$ 4$.
Best 2: ewe làmbe, Johu. Snell; Edmontoń, $\$ 6$; 2d.do, George Jackson, Castiemore, \$4; 8d do, do, do, 82 .

## SHEEP-MEDIUM WOOLLED.

class xvi-soutir Downs.-( 99 Eintries.)
Judges.-J. S. Walker, Beamsville; Martin Johnstone, Barrie; James Maxwell, Paris. Best ram, twio shears and over, F. W. Stone, Guelph, $\$ 16 ; 2 \mathrm{~d}$ do, do do, $\$ 10$; 3d do, Jno. Ker, Drummondville, \$5.
Best shearling ram, Edward Jones, Thorold, $\$ 16$; 2d do, Dan Tye, Wilmot, \$20; 3d do, F. W. Stone, Guelph, $\$ 5$.

Best ram lamb, N. \& J. Bethell, St. Catharines, $\$ 8$; 2d do, F. W. Stone, Guelphy \$4; 3d do, J. \& H. Spencer, Brooklin, \$2.

Best 2 ewes, two shears and over, F. W. Stone, Guelph, $\$ 16$; 2ddo, A. \&H, Spencer, Brouklin, \$12; 3d do, F. W. Stone, Guelph, $\$ 6$.

Best 2 shearling ewes, N. \& J. Bethell, St. Catharines, $\$ 12$; 2d do, Jno. Ker, Drummodville, \$8; 3d do, Edsard Jones, Thorold, \$4.
Best 2 ewe lambs, F. W. Stone, Gualph $\$ 6$; 2 d do, do, do, \$4; 3d do, J. \& H. Spencer, Brooklin, \$2.
csass xvil.-cheviots.-(19 Entries.)
Judges.-Thomas Newsom, Frankville;
Henry S. Losee, Norwich; Thos. Anderson, Napanee; A. Ryle, Paris.
Best ram, two shears and over, Geo. Miller, Markham, \$16.
Best shearling ram, David Elliott, West Flamburo, \$16; 2nd do, do,do, \$10; 3d do; do, do, $\$ \overline{5}$.
Best ram lamb, David Elliott, West Flam: boro, $\$ 8$; 2 d do, George Miller Markham; $\$ 4$; 3d do, do, do, \$2.
Best 2 ewes, two shears and over, David Elliott, West Flamboro; \$16; 2nd do, George Miller, Markam, \$12; 3d do, do, do, $\$ 6$
Best two shearling ewes, David Elliott; West Flemboro, $\$ 12$; 2d do, do, do; $\$ 8 ; 3 \mathrm{~d}$ do, do, c̀o, \$4.
Best 2 ewe lambs, David Elliott; Wést Elamboro, \$6; 2nd do, Geo. Miller, Markham, \$4; ; 3d do, do, do, \$2.
CLASI XVIII-OTHERR MEDIUM WOOLGED SHEEP, NOT SOUTEDOWNS OR CHEVIOTS:-- ( 46 Entries.)

Judyes.-The same as for Class xvii.
Best ram;two shears and: overs; Geo. Miller, Markham; $\$ 16 ;$ 2d do, J. \& H. Spencer, Brooklin, \$10; ;:3d do;, Dañiel Tye, Wilnot, $\$ 5$.

Best shearling ram, J. \& H. Spencer, Brooklin, impurted from England, 1862, 8t8; 2d do, Daniel Tye, Wilmot, $\$ 10$; 3d do, do, do, $\$ 5$.
Best ram lamb, Geo. Mi:lep, Markam, 88; 2d do, J. \& H. Spencer, Brooklin, 84; 3d do, Geo. Miller, Markham, $\$ 2$.
Best two ewes, two shears and over, J. \& H. Spencer, Brooklin, \$16;2d do, Geo. Milier, Markham, \$12; E. G. O'Bien, Barrie \$6.

Best two shearling ewes, Geo. Miller Markham 812; 2d do, Edward Jones, Thorold, \$8;
Best two ewe lanbs, Geo. Miller, Markham, $\$ 6$; 2d do, J. \&H. Spencer, Brooklin, $\$ 4$; 3d do, Geo. Miller, Markam, $\$ 2$.

> SHEEP-FINE WOOLLED,

Class xix.-merinoes and saxons.( 51 Entries.)
Judges.-James J. Farley, Belleville; Alpheus Snider, Ancaster; Geo. Bateman, Lindsay.
Best ram, two shears and over, Ed. Aarkland, Oshawa, $\$ 16$; 2d do, Jacob Rymal, Ryckman's Corner, $\$ 10$; 3d do, F. R. Jenning:, Cooksville, $\mathbf{8 5}$;

Best shearling ram, Alex. Young, Ryckman's Corners, $\$ 16$; 2d do, Jacob Rymal, do, do, 810 ; 3d do, Ed Arland, Oshawa, 85.

Best ram lamb, म.d Arkland, Oshawa, 88 ; 2d do, David Messenger, Cooksville, $\$ 4 ; 3 \mathrm{~d}$ do, Alex. Young, Ryclman's Corners, 82 .
Best 2 ewes, two shears and over, Ed. Arkland, Oshawa, $16 ; 2 \mathrm{~d}$ do, Jacob Rymal, Ryckman's Corners, $\$ 12$; 3d do, Alex. Young, do, do, $\$ 6$.
Best two shearling ewes, Geo. W. Miller, Grantham, $\$ 12$; 2 d do ${ }^{\text {Ed }}$. Arkland, Oshawa, 88 ; 3d do, Alex. Young, Ryckman's Corners, $\$ 4$.
Best two ewes lambs, Alex. Young, do, do, 86 ; 2d do, Jacob Rymal, do, do, 84 : 3d do, F. R. Jennings, Cooksville, $\$ 2$

Note by Judges.-The Judges would respectfully suggest that the Spanish and French Merinos be henceforth made separate classes.

> CLASS XE,-OTHER FINE WOOLLED SHERP, NOT MRRNOB OR ANXONs.-(11 Entries.)

Iudges the same as: for Class xix.
Ripont.-The Judges find none entered that they consider come within the description, and have therefore awarded no prizes.

## class xxl-mat surer.-(24 Entries.)

Judges.-Rnbert Kirkwood, Hamilton; Robert Best, Niagara, Henry Andrewa, Kingston.
Best two fat wethers, John Snell, Edmontor, $\$ 12$; 2d do, F. R. Jennings, Cooksville, $\$ 8$; 3d do, do, do, $\$ 4$.
Best two fat ewes, Christopher Walker London. $\$ 12$; 2 d do, David Rountree, York Tou nship, \$8; 3d do John Snell, Edmonton, \$4.

## PIGS-LARGE BREEDS.

class axin.-yonrshires,-(45 Etries)
Judges.-Walter Ker, Stamford ; Robert
Gaibutt, Belleville; Simeon Crysdala,
Belleville ; A. K. Scholfield, Humbertsone
Best boar, one year and over, C. A. Jordisờn, Belleville, \$15; 2d do, J. F. Converse Jefferson County, N. Y, \$10; 3d do, L. A Sovereign, Paris, \$6.
Best boar under one year, C. A. Jordison, Belleville, $\$ 10$; 2 d do, J. P. Wheler, Scarboro, \$6; 3d do, C. A. Jordison, Belleville, $\$ 4$.
Best breeding sow, one year and over, Jas. Ford, Drumquin, Halton, $\$ 10$; 2d do, J. P. Wheler, Scarboro, $\$ 7$; 3d do, C. A. Jordison, Belleville, $\$ 4$.
Best sow, under one year old, J.P. Wheler, Scarboro, imported from England, 1862, \$10; 2d do, Brodie \& Campbell, Jefferson County, N. Y. $\$ 4$ : 3d do, C. A. Jordison, Belleville, $\$ 3$.

## class xxill.-large bergshires.- <br> ( 18 Entries.)

Judges.-The same as for Class xxii.
Best boar, ene year and over, John Davey, Leskard, \$15.

Best boar, under one year, James Maines; Brampton, $\$ 10$ : 2 d do, John Gibb, Lindsay, $\$ 6$.
Best breeding sow, one year and over, Gea. Morton, Morton, $\$ 10$.
Best sow under one year old, James.Maines, Brampton, 84; 2d do, Geo. Morton. Morton 84; 3d do, do, do, $\$ 3$.
claks ixiv.-afl other large brefig. (14 Eatries,).
Judges.-The same as for Class xyii.
Best boar, one year and over, Géo. Milles, Markham, $\$ 15$; 2 d do, P. R. Palmer, Thur-
low; \$10 ; 3d do, A. H. Fenwick, Cashel, \$6.
Beat boar, under one year. P. R. Palmer, Thurlow, §10; 2d do, Geo. Miller, Markham, $\$ 6$.
Be:t breeding sow, one yearand over, Geo. Markham 810; 2d do, P. R. Palmer, Thurlow, Miller, $\$ 7$.
Best sow under one year old, Geo. Miller, Markham, imported from England, 1862, $\$ 10$; 2d do. Jonas S. Barnes, St. Thomas. \$4.

PIGS-SMALL BREEDS.
CLASS XXV.- supfoliks.-(39 Entries.)
Judges.-Malcolm McAıthur, Lobo: Duncan
Chistie, Utica; Alex. Bartlett, Windsor;
Wm. Crowder, Morןeth.
Best boar, one year and over, James Maines, Brampton, \$15; 2d do, Francis Winter, Cooksville \$10 ; John Dixon, Etobicoke, $\$ 8$.
Best hoar, under one year, James Maines, Brampton, imported from England, 1862, $\$ 30$; 2d do, Geo. Sarage, Burnhamthorpe, \$6; 3d do, Henry Battell, Grafton, \$4.
Beat breeding sow, one year and over, Ges. Sarage, Burnhanthorpe, $\$ 10$; 2d do, Peter Metler, Jr., Pelham, \$7; 3d do, John McGlashan, Pelham, \$4.
Best sow, under one year old, Geo. Savage, Buinhamthorp, $\$ 5$; 2d do, Peter Metler, Jr., Pelham, $\$ 4$; 3d do, Thomas Mills, Albion, \$3.

CLASS XXVI.-IMPROVED BERESHIREG.(55 Entries.)
Ludges.-The same as for Class xxv.
Best boar, 1 year and over, Thomas Penton, Paris, \$15; 2d do, David Buchan, do, $\$ 10$.

Best boar, under 1 year, David Buchan, Paris, $\$ 10$; 2d do, Jno. Foott, Port Hope, $\$ 6$; 8d no, Jno. Randall, Paris, $\$ 4$.

Best breeding sow, 1 year and over, Jno. Ross, Toronto, \$10; 2d do, David Buchan, Paris, $\$ 7$; 3d do, Thos. Penton, do, \$4.
Best sow under 1 year old, Jno. Ross, Toronto, \$5 ; 2d do, Thos. Pentor, Paris, \$4; sd do, R. L. Denison, Toronto, \$3.

CuASS XXVII.-All other small breeds.(37 Entries.)
Tudges.-Tke samie as toi Class xxr.
Best boar, 1 year and over, Jas. Mainés, Bramptoñ, imported from England 1862; 845 ; 2d do, Jno. Ingleson, Toronto, $\$ 10 ; 3 \mathrm{~d} \mathrm{do}$, James Cowan, Galt, $\$ 6$.

Best Boar under 1 year, Jas. Maines,

Brampton, imported from England, 1862,\$30; 2 d do, Jas. Cowan, Galt, 86 ; 3d do, do, do, $\$ 4$.

Best breeding sow, 1 year and over, Jas. Cowan, Galt, \$10; 2d do, Daniel Tye, Wilmot, 87 .

Best sow under 1 year old, Rob Dorsey, Summerville, 85 ; 2d do, do, do, $\$ 4$; 3d do, Jas. Cowan, Galt, \$3.
class xxvili.-poultry.-(250 Entries.)
Iudges.-J. D. Humphreys, Toronto ; Alex.
Kerr, London ; Robert Hardinge, Kingstön.
Best pair of white dorkings, John Bogue, London, 84 ; 2d do, S. Peters, senr, London, $\$ 2$.

Best pair of spangled dorkings, John Bogue, London, 84 ; $2 d$ do, S. Peters, senr, London, $\$ 2$.

Best pair of Black Polands, George Scott, Woburn, \$4; 2d do, Charles Nourse, Whitby $\$ 2$.

Best pair of white Poiands, no first awarded ; 2d do, Jno. Bogue, London, $\$ 2$.

Best pair of golden Polands, John Bogue, London, $\$ 4$; 2d do, do, do, $\$ 2$.

Best pair of silver Polands, John Ker, Drunmondville, $\$ 4$; 2d do, James Metcalf, Eglinton, \$2.

Best pair of game fowls, Samuel Baird, Toronto, $\$ 4$; 2d do S. Peters, senr., London, \$2.

Best pair of Jersey blues, S. Peters, Lon don, 84 ; 2d do, John Bogue, London, 82.

Best pair of Cochin China, Shanghai, Canton, or Bramah Pootra fowls, S. Peters, senr, London, \$4; 2d do, John Ker, Drummondville, $\$ 2$.

Best pair of black Spanish fowls, Jno. Bogue, London, \$4; 2d do, Jas. Metcalt; Eglinton, \$2; Charles Nourse, Whitby, highly commended.

Best pair of black Java fowls, no first prime awarded ; 2d do John Bogue, London, \$2.

Pair of Bolton bays, no piize awarded.
Best pair of Bolton grays, John Bogue, London, \$4; 2d do, do, do, \$2.

Best pair of Hamburg fowls, S. Peters; senr., London, $\$ 4$; 2 d do, G. D. Jamea Toronto, \$2.

Pest pair of Dominique fowls, Philip. Arm: strong, Toronto, \$4; 2d do, John Ker, Druzomondrille, \$2.

Best pair of feather legged bantamg, Abel

Wilcox, Richview, \$2; 2d do, S. Peters, senr., London, \$1.

Best pair of smoothed-legged bantams, $S$. Peters, London, $\$ 2$; 2d do, do, do, $\$ 1$.

Best pair of turkeys, (white) Jno. Ker, Drummondville, $\$ 5$.
Best pair of turkeys (coloured) Jno. Bogue, London, 84; 2d do, Johin Ker, Drummondville, $\$ 2$.

Best pair of wild turkeys, John Bogue, London, $\$ 4$.

- Best pair of large geese, John Bogue, Lcndon, 84; 3d do, do, do, \$2.

Best par of Bremen geese, John Bogue, London, $\$ 4$; 2d do, do, do, $\$ 2$.

Best pair of Chinese geese, John Ker, Drummondvile, 84.

Best pair of Muzovy ducks, John Ker, Drumm.ndille, $\$ 4$; 2 l du, Juln Bogue, London, $\$ 2$.

Best pair of common ducks, John Bogue, London, \$4;2d do, Wim. Forfar, Eilesmere, $\$ 2$.

Best pair of Aylesbury dacks, S. Peters, London, \$4; 2d do, John B.,gue, Londnn, \$2.

Best pair of Poland ducks, John Bogue, London, 84 ; 2d do, Juhn Slaw, Luronto, \$2.
. Best pair of Rouen ducks, S. Peters, senr., London, $\$ 4$; 2 d do, do, do, $\$ 2$.

Best pair of Guinea fowls, Jno. Ker, Dıummondville, \$4;2d do, Jno. Bogue, London, $\$ 2$.
Best collection of pigeons, Andrew J. Riddell, Toronto, \$4; 2d Geo. Hornshaw, Toronto, $\$ 2$.
Best lot of poultry, in`one pen, and owned by the exlibitor, John Bogue, London, \$0.
Best collection of poultry in various classes by one exhibitor, Joln Bogue, London, $\$ 8$.
Best pair of rabbits, P. C. Abbott, 'Torunto, $\$ 2$; Extra prize, Jas. Maines, Brampton, $\$ 1$.
Besi lot of rabbits, P. C. Abbott, Toronto, $\$ 4$.
the fergus medais.
Best pair (cock and hen) of domestic fowls, any breed, prize by late Hon. Adam Fergusson, Jno. Ker, Drummondvilile, - Silver Medal ; 2d do, Chas Nourse, Whitby, Silver Medal.

## EYTRA PRIZES.

Frizzled fowls, John Ker, Drummondville, $\$ 2$
Wild: geese, Jobn Ker, Drummondville; $\$ 2$.
Gold and silver sea bright bantams, S. Péters, seí, Loindon, \$2.

## AGRICULTURAL PRODUCTIONS.

cliss mxix.-Grains, seeds, \&o.-(460
Judges.-E A. McNaughton, Newcastle; Sheriff Moderwall, Ingersoll ; D. Sutherland, Newmarket ; J. A. Baker, Paris; John Jarvis, Ingersoll.
The Canada Company's Prize for the best 25 bushels of Fall Wheat, the produce of Canada West, being the growth of the year 1862. Each sample to be of one di-tinct variety, pure and unmixed, of tho best quality for seed, and not to be tested merely by weight. The prize to be awarded to the actual grower only of the whea!, which becomes the property of the Association, for distribution to the County Societies fur seed, James Frecman, Hamilton, $\$ 100$; 2nd do, hy the Assaciation, John Mitchell, Mono Mills, $\$ 40$; 3rd di, John Rose, Glenmorris, $\$ 20$.

Best two jushels of white winter wheat, Phil. Bartholomew, Ringwood, \$10; 2nd do, Seth Heacock, Kettleb", 88 ; 3rd do, Ben. Johuston, Islington, \$6; 4th do, William Jackes, Eglinton, \$4,

Best two bushels of red winter wheat, Jas. Trann, Belford, \$10;2nd do, C. W. Thomp.son, Niagara, $\$ 8$.

Best two bus els of white spring wheat, Seth, Heacock, Kettleby, \$10; 2nd do, John Mitchell, Mono Mills, \$8; 3rd do, David Armstrong, Letth, \$6; 4th do, Jas. Hanning, Morriston, $\$ 4$.
Best two bushels red spring wheat, Wm: Westington, Coldsprings, \$10; 2nd do, John Mitchell, Mono Milll, \$8; 3rd do, John Wood, Bradford, \$6; 4th do, Hugh Reid, Onen Sound, \$4.
Best two bushels of barley, (two rowed) James Gibson, Ancaster, $\$ 6$; 2nd do, A. M. D. Lockhart, Stromness,; \$4; 3rd do, Alex, Gerrie, Itundas, \$2; 4th do, Johṇ Renton, Cailuke, Vol. Transactions.
Best two bushels of barley ( 6 rowed), Jno. Mitchell, Mono Mills, \$6; 2nd dö, James Traní; Belford, \$4; 3rd dó, Jameş Haṇiníg, Moriston, \$2; 4th do, Robert Worm, Lip. pincott, Trans.

Best two bushels of rye, J. D. Lafferty, Hamilton, $\$ 6$; . 2nd do, Alex. Shaw, Toront, \$4; 3rd do, P. R. Palmer, Thurlow, \$2; 4th do, Moiris Thomas, Mohawl, Trans.

Bést two bushèl of oats (white) Uriah Young, Bángor, \$6; 2nd dó, James Gibsô, Ancaster, \$4; 3rd, do, Phil. Barthọomèm,

Ringwood, \$2; th do, álex. Gerrie, Dundas, Trans.
Best two bushels of oats (hlack) Alex. Gerrie, Dundas, \$6; 2nd do, Alexander Gerrie, Dundas, \$t ; 3rd do, John Ross, Toronto, $t 2$.
Best two bushels of field peas, Wm. Forfar, Ellesm.re, \$8; 2nd do, Samuel Wood, Islington, \$4;3rd do, Thomas Gibson, Middleton, \&2; 4til do, Wm. Gordon, Whitby, Tians.
Best two bushels of Marrowfit peas, D. Rowntree, Carleton, \$6; 2nd do, James R. Todd, Brampton, \$4;3rd do, Mrs. Harper, Auro: $1, \$ 2$.
Best two bushels of tares, James Story, Wh,tby, 86: 2nd do, Robert Worm, Lippincott, $\$ 4$; 3rd do, H. Jennings, Markbam, 88; 4th do, Adlam Mather, Isungton, Tran:-
Best bushel of wlite field beans, James Pres:oti, Esquesing, \$6; 2nd do, Coridon Len is, Salford, \$4; 3rd do, R. C. Gill, Colborne, $\$ 2$.
Best two bushels Indian Corn in the ear, white, H. J. Brown, Niagara, \$6; 2nd do, G. J. Miller, Virgil, \$4; 3rd do, Alex. Gerrie, Dundas, 82 ; 4th do, R. Rispin, London, Trans.
Be.t two do, jellow, W. A. F. Currie, Niagara, \$6; 2nd do, G. J. Miller, Virgil, \$4; 3rd do, Alex. Gerrie, Dundas, \$2; 4.th do, R. L. Denison, Toronto, Trans.

Bist bushel of timothy seed, James Gibson, Ancasier, \$6; 2nd do, C. Lewis, Salford, \$4; 3rd do, H. Girouard, Hamilton, \$2; 4th do, H. Jenuings, Markham, Trans.

Best bushel of flax seed, P. Bartholomew, Ringwoud, \$6; 2nd do, W. Benham, Guelph, \&4; 3rd do, J. R. 'Todd, Brampton, $\$ 2$.
Best bushel mustard seed, G. Girouard, Ham:Iton, \$6.
Best Swedish turnip seed, from Transplaite, bulbs, not less than 20 pounds, R. C. Gill, Colborne, \$6; 2nd do, James Lawrie, Malveru, $\$ 4$.
Best 14 lbs . white Belgian field carrot seed, Robert Beith, Darlington, 86; 2nd do, R. C. Gill, Colborne $\$ t$.
Best 12 lbs . long red mangel wurznl seed, R. C. Gill, Colborne, $\$ 6$; 2ñd do, H. Girouard, Hamilton, \$4.
Best 12 lbs. yellow globe mangel wurzel seed, John Pratt, Cobourg, $\$ 6$; 2nd do, k . C. Gill, Colboine. \$4.

Best bale of hops, not less than 112 pounds, Jobn Russell; London, $\$ 20$; 2ind do, Alex. Russell, London, \$12; 3idda, John Steplienijon, London, $\$ 8$ :

Best bushel of horse or tick beans, W. Jackson, Yorik Mills, 86; 2nd do, John Hogg, York Mills, $\$ 3$.

Best bushel of buckwheat, Ben Johnston, Islington, \$4; 2nd do, P. Bartholomew, Ringwood, $\$ 2$; 3rd do, P. R. Pilmer, Thurlow, Trans.
Remares by Judaes.-The judges of grains and seeds have pleasure in presenting their report. Upon former occations much difficulty has arisen from the errrppous classification of various articles in this class, but this year very fer instances have been found where these inistakes have veen made. Where such were found we took it upon ourselves to set them to rights. In some of the sections we found a great deficiency both in quantity and quality. Considering that one of the objects of the Association is to encourage competition by awarding prizes only to such articles as are worthy of them, we have in oue or two instances not awalded any prize on account of the articles not coming up to the staidard of quality, but we are happy to eay that these are exceptional cases. In other instanees we have withheld prizes for want of sufficient quantity to comply with the rules of the Association.

CLASS xex.-roots and other hoed ficid crops.-( 386 Entries.)
Judges.-John Menzies, Almonte; John Randail, Newmarket ; Walter Riddell, COboulg.
Best bushel of pink-eyed potatoes, John Ross, Toronto, $\$ 3$; 2nd do, Richard Rispen, London, \$2; 3rd do, Adam Mather, Islington, $\$ 1$.
Beit bushel cup potatoes, John McĈ̣allium, Beverly, Wentworth, $\$ 3$; 2nd do, John Ross Toronto, $\$ 2$; 3rd do, Robert Worm, Lippinícott, ${ }^{2}$ i.

Best bushel garnet Chilis, Wm. Wilson, Islington, Ycrk, \$3; 2nd do, Robert Worm, Lippincolt, \$2; 3rd do, James Cowan. Galt, \$1.
Best bushel white potatoes, Wm. Bürgess, Mimico, $\mathbf{\phi 3}$; $;$ 2nd do, Richard Rispin, London, $\$ 2 ; 3$ rà do, Alex. Gerrie, Duñáas, Wentworth, Trans.

Best bushel red do, Trueman Mcevers, Cambourn, Northumberland, $\$ 3$; 2 nd , wo, Alex. Gerrie, Dundas, $\$ 2 ;$ Brid do, W. R. Bartiet, Toronto Trans.
Best bushel blue, Wm. Lea, Yorl Tp. \$3;

2nd dn, Adam Mather, Islington, $\mathbf{\$ 2}$; 3rd do, John Moore, Islington, Trans.

Hest bushel of any other sort, Thomas Tronfield, Toronto, $\$ 3 ; 2$ nd do, Robert Worm, Lippincott, $\$ 2$; 3rd do, Alex. Shaw, Toronto, Trans.

Best collection of field potatoes, a peck of each sort, [named] Joshua Norrish, Eden Mills, Nassagawega, 84 ; 2nd do, Adam Mather, Islington, \$3; 3rd do, Patrick R. Wright, Cobourg, \$2.

Best bushel Siwede turnips, Wm. Burgess, Minico, $\$ 3$; 2nd do, James Leslie, Toronto, \$2; 3rd do, Robt. Worm, Lippincott, \$1.

Best bushel white globe turnips, Thomas Ironfield, Toronto, $\$ 3$; 2nd do, C. C. Small, Toronto, \$2; 3rd do, George Vair, Yorkville, Trans.

Bast bushel Aberdeen yellow turnips, C.C. Small, Toronto, \$3.

Best 20 roots red carrots, Jno. Muir, Scarboro', $\$ 3$; zid do, W. R. Bartlett, Toronto, \$2; 3rd do, Joshua Sisley, Scarboro', $\$ 1$.

Best 20 roots white or Bulgian carrots, W. K. Bartlett, Toronto, \$3; 2nd do, Jno. Muir, Scarboro', \$2 ; 3rd do, James Young, Chester, Yorls, $\$$.

Best 12 roots mangel wurzel (long red), Robert Worm, Lippincott, \$3; 2nd dc, Wm. Burgess, Mimico, \$2: 3rd do, Wm. Benham, Guelph, \$1.
Best 12 roots red Globe mangel wurzel, Wm Burgess, Mimico, \$3; 2nd do, E. W. Thomson, Carlton West, 82 ; 3rd do, R. C. Gill, Colborne, Northumberland, Trans.

Best 12 roots yellow Globe mangel wurzel, Wm. Burgess, Mimico, $\$ 3$; 2nd do, Robert Worm, Luppincott, \$2 ; 3rd do, John Ross, Toronto, \$1.

Lest 12 roots long yellow mangel wurzle, W. Burgess, Mimico, $\$ 3$; 3nd do, Wm. BenFiam, Guelph, $\$ 2$; Sid do, R. C. Gill, Colborne, Trans.

Best 12 roots of kohl rabi, Richard $\in$ uthric, Toronto, \$3; 2nd do, T. H. Ince, Toronto; $\$ 2$; 3 rd do, Gage J. Miller, Virgil, Lincoln, 81.

Best 12 roots of sugar beet, Wm. Burgess, Mimicu, $\$ 3$; 2nd do, r.. C. Gill, Colborne, $\$ 2$; 3rd do, Joshua Sisley, Scarboro', 81.

Best 20 roots parsnips, Win: Burgess; Mimico, 83 ; 2nd do, Wm. Benham, Guelph, $\$ 2$; 2rd do, W. R. Bartlett, Trans.

Best. 20 roots chicory, Leonard Pears, Yorkville, 83 ; 2nd do, G. Pears, Toronto, \$2; srd do, Wm. Burgess, Toronto, Trans.

Best 2 large squashes for cattle, William Wilson, Islington, \$3; 2nd do, George Morse, Toronto. $\$ 2$; 3d do, Thomas Berney, Yorkville, $\$ 1$.

3est 2 mamnoth field pumpkins, Wm. Lee, York, 83 : 2nd do, C. C. Small, Toronto $\$ 2$.

Best 4 common yellow field do. Wm. Lea York, 83 ; 2nd do, Wra. Wilson, Islington, \$2; 3rd do, R. L. Denison, Toronto, Trans.

Best 20 lbs of tobacco leaf, growth of Canada West, Edward Lewis, Yorkville, \$3; 2nd do, Richard Guthrie, Toronto, \$2; 3rd do, R. C. Gill, Colborne. Trans.

Best broom corn brush, 28 lbs, Charles W. Thompson, Niagara, \$3.

## The Canada Company's Prize for Flax.

Best 112 lbs of Clax , scutched, Chas. Mit. chell, Norval, \$24; 2ud do, by the Association, do, do, $\$ 16$; 3rd do. do, Jno. Rea, Port Stanley, \$8.

Extra Prizes.-F. W. Stone, Guelpb, sample of flax in raw state, \$1; Richard Gut thrie, Toronto, tobacco plant, $\$ 1$; George Murray, Yorkville, variety of seedling potatoes, $\$ 1$; John Nicholson, Ashport, York, Basket Willows, \$1.

## HORTICULTURAL PRODUCTS.

> Class xxyi.-nRUIT-(j99 Entries.)

Judges,—George Sheppard, Montreal ; Geo.
Laing, Hamilton; U'ohn Gray, 'Ioronto; Wm. Gray, Wooastock.
Best 20 varieties of apples, named, 6 of each, D. W Beadle, St. Catherines, \$6; 2 d do, R. Stibbard, Eglinton, \$5; 3d do, Ellwanger \& Barry, Rochester, N. Y. \$4.

Best 12 table apples, named, fall sort, Elia Snider, Eglinton, \$4; 2d do, Samuel Wood, Isiington, $\$ 3$; 3d do, Fred. Geo. Nash, Niagara, \$2.

Best 12 table apples, named, winter sort S. J. J. Brown, Niaga:a, \$4; 2d do, Robert Warren, Niagara, \$3; 3d do, Robert Stibbaid, Eglinton, $\$ 3$.

Best. 12 baking apples, named, fall, James Lesslie, Toronto, \$4; 2d do, John. Freed, Hamilton, $\$ 3$; 3d do, J. M. Grover, Colborue, $\$ 2$.

Best baking apples, winter, S. J. J. Brown Niagara, $\$ 4 ; 2 d$ do, E. C. Fearnside, Han ilton, \$3; 3ú do, J. M. Hirschfelder, Trrorto, \$2.

Best 20 varieties of pears, named, three of each, Ellwanger \& Barry, Rochester, N. Y. $\$ 6$; do, Bruce \& Murray, Hamilton, \$6;2d
do, D. W. Beadle, St. Catherines, \$5; 3d do, John Freed, Hamilton, $\$ 4$.
Best 12 table pears, named, fall sort, D. W. Beadle, St. Catherines, 84 ; 2d do, R. N. Ball, Niagara, \$3; 3d do, Bruce \& Mnrry, Hamilton, 82.
Best 12 table pears, named, winter sort, Ellwanger \& Barry, Rochester, N. Y., \$4; 2 d do, Geo. Leslie, Toronto, 83 ; 3d do, Bruce \& Murray, Hamilton, $\$ 2$.
Best 12 plums, dessert, J. D. Humphreys, Toronto, $\$ 3$; 2d do, Gen. Tattle, Yorkville, \$2; 3d do, Jas. Boulton, Eramosa, \$1.
Best 12 baking plums, named, Wm. Benham, Guelph, $\$ 3$; 2 d do, John Brown, Toionto, \$2; 3d do, J. Hirschfelder, Toronto, \$1.

Best quart of damsons, English, M. C. Nickerson, Port Dover, \$3; 2d do, Phillip Armstrong, Toronto, 83; 3d do, Geo. Tattle, Yorkville, \$1.
Best 12 peaches, grown in open air, named, John Freed, Hamilton, 83 ; 2d do, F. G. Nash, Niagara, \$2; 3d do, Thos. Daniels, Yorkville, $\$ 1$.

Best 10 varieties of peaches grown in the open air, 3 of each, John Freed, Hamilton, $\$ 4$; $2 d$ do, Robert Warren, Niagara, $\mathbf{\$ 3}^{3}$; 3d do, Wolverton H. Smith, Grimsby, \$2.
Best 12 quinces, W. A. Currie, Niagara, \$2; 2d do, H. J. Brown, Niagars, $\$ 150$; 3d do, S. J. J. Brown, Niagara, Trans.

Best 3 buniches of golden or white grapes, grown under glase, Bruce $\&$ Murray, Hamilton, \$4; 2d do, Samuel Asiiity, Tornnto, \$3; 3d do, Hon. W. Cayley, n.ioronto, \$2.
Best 3 clusters oi black grapes, grown under glass, Bruce\& Murray, Hamilton, \$4; 2nd do, Samuel Ashby, Toronto, \$3; 3rd do, Hon. W. Cayley, Toronto, $\$ 2$.

Best 4 clusters black grapes, grown in open air, W. H. Read, Port Dalhousie, 83; 2nd do, Solomon Hill, Beamstille, \$2; 3rd do, Bruce \& Murray, Hamilton, 81.

Best 4 clusters white grapes; grown in open air, H. M. Switzer, Palermio, 83; 2nd do, W. H. Read, Port Dalhousie, \$2; 3rd do, W. A. F. Currie, Niagara, $\$ 1$.

Best and heariest 2 clusters grapes, grown under glass, Samuel Ashby, Toronto, \$4; 2nd do, Hon. W. Cayley, Töronto, \$3; 3rd so, Charles Ariold, Paris $\$ 2$.
Best and heariest two bunches grapes, open air, W. H. Fiead, Pọt p.albousie, \$3.

Best collection of grapos, grown un open air, 2 clusters of each sort, named, W.H. Read, Port Dalhoonie, 84; 2nd do, Charles

Arnold, Faris, 83 ; 3rd do, Bruce \& Murray, Hamilton, \$2.

Best 3 bottles wine, made from the grape, John C. Kilborne, Beamsville, 83 ; 2nd do, Judge Harrison, Toronto, 82; 3rd do, Johi C. Kilborne, Beamsville, $\$ 1$.

Best green flesh melon, J. C. Small, Toronto, $\$ 2$; 2nd do, W. Burgess, Mimico, $\$ 1$ 50 ; 3rd do, Chris. Young, Yorkville, $\$ 1$.
Best water melon, H. Girouard, Hamilton, 82; 2nd do, S. J. J. Brown, Niagera, $\$ 150$; 3rd do, Wolverton \& Smith, Grimsby $\$ 1$.

Best 6 citrons for preserving, Richard Rispin, London, \$2; 2nd do, Jołn Hogg, Yoriville, $\$ 150$; 3rd do, R. Stibbard, Eglinton, Transactions.
Best 6 nectarines, Brüce \& Murray, Hamilton, \$2 ; 2nd do, Judge Harrison, Toronto, $\$ 150$; 3rd do, R. N. Ball, Niagara, $\$ 1$.

Best display of fruit, the growth of exhibitor, distinct from other entries, not more than 3 specimens of each sort, George Leslie, Toronto, \$9; 2nd do, D. W. Beadle, St. Catherines, \$6; 3rd do, Charles Arzold, Paris, \$3.

Extra Prizes.-E. C. Fearnside, Hamilton, Siberian crabs, 50c. J. D. Humphreys, Toronto, red currants, 50 c ; do, do, whits currants, 50 c ; do, do, black currants, 50 c ; do, do, golden crabs, 50c. W. H. Miller, Toronto, crab apples, 50c. C. F. Bell, Toronta, crab apples, 50c. Hon. H. H. Killally, Toronto, grapes and peaches bearing in pots, 50 e. Do. collection of grapes grown under glass, \$1. John Gray, 'loronto, collection of pears, 50c. Charles Arnold, Paris, collection of plums, 50c. George Tatule, Yorkvile, red currants, 5 c .

## class xxinl.-garden vegetablam.(451 Entries.)

Judges.-Geo. Baxter Kingston ; John Beattie, Nichol ; Peter C. Servos, Niagara.
Best 12 roots of salsify, Edward Lewis, Yorkville, \$2; 2nd do, Geo, Tattle, Yorkville, \$1 50 ; 3rd do, Geo. Vair, Yorkville, \$1.

Beat 3 heads brocoli, Richard Guthrie, Toronto, \$2; 2nd do, do, $\$ 150$; 3d do, Wm. Burgess, Mimico, \$1.
Best 3 beads cauliflower, Ed. Lewis, Yorkville, \$2; 2nd do, Richard Gutbrie, Toronto, $\$ 1$ 50; 3rd do, J. C. Small, Toronto, \$1.

Best 2 heads cabbige [summer] James Fleming, Toronto, $\$ 2$; 2nd do, A. W. Taylor, Hamilton, $\$ 150$; 3rd do, G. Tattle, Yorkvillos \$1:

Best 3 heads of caibage (winter). Richard Guthrie, Toronto, $\$ 2$; 2nd do, Wm. Burgess, Mimico, \$1 50 ; 3rd do, Jas: R. Todd, Brampton, $\$ 1$.

Best 4 sorts of winter cabbage, including, savoys, 1 of each sort, W. Burgess, Mimico, \$3; 2nd do, W. Holden, Yorkville, \$2; 3rd do, R. Guhirie, Torontı, \$1.

Best 3 heads red Cabbage, A. W. T'aylor, Hamilton, \$2; 2nd do, W. Burgess, Minico, \$1 50 ; 3rd do, R. Guthrie, Toronto, \$1.

Best 12 carrots for table, long red, Samuel Ashby, Toronto, $\$ 2$; 2nd do, W. Burgess, Mimico, $\$ 150$; 3rd do W. Benham, Guelph, $\$ 1$.

Best 12 early horn carrots, J. C. Daniels, Yorkville, \$2; 2nd do, James Young, Chester, \$1 50; 3rd do, Judge Harrisun, Toronto, $\$ 1$.

Best 12 table parsnips, Alfred Strowger, जuelph, $\$ 2$; 2nd do, W. Benham, Guelph, $\$ 150 ;$ 3rd do, G. S. Armstrong, Fergus, \$1.

Best 6 roots of white celery, James Best, Ashport, \$2; 2nd do, W. Daniels, Yorkville, $\$ 150$; 3rd do, G. Tat:ler, Yorkville, \$1.

Best 6 roots red celery, James Wildes, Hamilton, \$2; 2nd do, John Nicholson, Ashport, \$1 30 ; 3rd do, W. Daniels, Yoikville, $\$ 1$.

Best dozen capsicums (ripe), R. C. Gill, Colborne, \$2; Znd dio, Judge Harrison, Toronto, $\$ 150$; 3rd do, J. M. Grover, Colborne, $\$ 1$.

Best collection of capsicums (ripe,) 6 of each sort, A. W. Taylor, Hamilton, \$3; 2nd do, C. C. Fearnside, Hamilton, \$2; 3rd do, R. C. Giil, Colborne, $\$ 1$;

Best 3 egg plant fruit, purple, W. A. F. Currie, Niagara, \$2; Znd do, R. Currie, St.Catharines, $\$ 150$; 3rd do, H. Girouard, Hamilton, \$1.

Best 12 tomatoes, [red]J. D. Humpbreys, Toronto, \$2; 2nd. do, Rev. Mr.Cox, Brampton, 81. 50. ; 3rdulo, Edward Lewis, Yorkville, \$1.

Best 12 tomatoes; [yellow] W. R. Bartlett, Toronto, $\$ 2$; 2nd do, R. Rispin, London, $\$ 150$; 3rd do, H. Girouard, Hamilton, $\$ 1$.

Best assorted collection of tomatoes, 6 each of large sorts, and 12 each of small sorts, $E$. C. Fearnside, Hamilton, \$3; 2nd do, Thos. Ironfield, Toronto, \$2 ; 3rd do, J. D. Hum-- phreys. Toronto. \$1.

Best- 12 blood beets, long, Gage J. Miller, Virgil, \$2; 2nd do, Sam Ashby, Toronto, $1 \$ 150 ; 3$ rd do, James Fleming, Toronto; $\$ 1$.

Best peck of white onions, A. 'We Taylor, Hamilton, 82 ; 2d do, Henry Giroüard, Ham-
ilton, $\$ 150$; 3rd do; James Wildes, Hamilton, \$1.

Best peck of yellow onior:, A. W. Taylor, Hamilton, $\$ 2$; 2nd do, R. Rispin, London, \$150; 3rd do, James Wildes, Hamilton, \$1;

Best peck of red onions, John Young, Virgil, \$2; 2d do, R. Rispin, London, $\$ 150$; 3rd do, James Wildes, Hamilton, \$1.

Best 12 white turnips [table] Thomas Ironfield, Ioronto, \$2; 2nd do, A. W. Taylor, Hamilton, $\$ 150$; 3rd do, George Vair, Toronto, \$1.

Best 12 yellow turnips [table] A. W. Taylor, Ifamilton. $\$ 2$; 2nd do. Thomas Ironfield Toronto, \$1 50.

Best 12 eais sweet corn, John Young, Virgil, $\$$ ? ; 2nd do, G. J. Miller, Virgil, \$1 50; 3rd cio, James Durand, Kingston, \$1.

Best and greatest variety of potatoes, half peck of each sort, named, Richiard Guthrie, Toronto, \$3; 2nd do, Samuel Ashby, Toronto, $\$ 2$; 3rd do, A. W. Taylor, Hamilton, $\$ 1$.

Best 3 squashes, [table] S. J. J. Brown, Niagara, \$2; 2nd do, James Fleming, Toronty, \$1 50; 3rd do, R. L. Denison, Toronto, \$1.

Best and greatest variety of vegetables, [distinct from other entries] each kind named, George Tattle, Yorkville, St; 2nd do, A.W. Taylor, Hamilton, $\$ 3$; 3rd do, James Best, Ashport, \$2.

Extra Prizes.-Curled parsley, Wm. Benham,Guelph, 50 c . Three kinds of kidney beans, J. D. Humphrejs, Toronto, 50 c . Dish of Russian peas, and dish of asparagùs beans, J. M. Hirschfelder, Toronto, 50 c . Asparagus beans, George Tattle, Yorkvile, 50c. Variety of dried garden herbs, George Tattle, Yorkville, 50 c . Dish of yard bians, long pole, Jas. Best, Ashport, 50 c . Dish of green pear, J. D. Humphregs, Toronto, 50c. Brace of cucumbers, Geo. Leslie, Torönto, 50c. Dioscorea batatas, Bruce \& Murray, Hamilton, 50 c . Dioscorea batatas, Judge Harrison, Toronto, 50 c . Half peck champion of England peas, George Tattle, Yorkville, 50c. Greẹn peppers, J. C. Small, Toronto, 50 c . Bassano turnip beeat, J. C. Daniels, Yorkville, \$1. Best Siberian crabs, Robert Stibbaid, Eglinton, 50c. "Strawberry tomato in the husk, James Lesslie, township of Yorly, 50c. Collection of gourds, J. D' Humphreys, Toronto, 50 c.
(Prize Listito be cionduddel in meact numbér.)

## flliscellaneons.

Agriculturr and Women.-An American gentleman who lately visited England was struck by the interest manifested by ladies, including those of the highest rank, in agrical. ture. One of these, the Duchess of Portland, exhibited perfect familiarity with the minutest details of farm management and work, showing her American guest over the whole of the Duke's large estate, and explaining to him the various processes and methods of cultivation. We could wish that our American !adies would adopt one of the few aristocratic tastes and habits which sit gracefully upon republican women, and which would be of equal adiantage to the interests of agriculture and to their own delicate physical organizatious. A great deal of cant is uttered in these days about the mission of woman, but whenever we hear an attenuated, dyspeptic female talking in this wise, we feel sure that the daily handling of a brocmstick, in a peaceable manner, or the charge of a kitchen garden, would soon put her upon the track most useful for berself and for society. When Rome was young and virtuone, the kitchen garden was always placed under the care of the mother of the family. In Sparta, the women, fit to be the mothers of heroes, cultivated the soil, whilst the men were fighting the battles of their country. Indeed, from the earliest period in the annals of our race, woman has aided by ker conasels, and sometimes by her labors, in bringing agriculture to a state of perfection. 'l'he laws which Osiris gave to Egypt were not as valuable to that country as those precepts in agriculture, those instructions in embankments, irrigations and drainings, which Isis, his Queen, gave to the Egyptians, and which enabled them to derive so much benefit from the deposits of the Nile. Ceres, deiñed by the Greeks, made her people acquainted with the use of wheat, and the mode of cultivating it. To the Empress of China we are indebted for the mulberry tree and the rearing of silk worms. Woman of late years has demonstrated her capacity of shining in many spheres once considered the peculiar province of man. Miss Herisches has discovered comets; Mrs. Sowirvilie laid open the mathematical stracture of the universe; some have analyzed the chemical relations of nature in the laboratory, and others investigated the laws of social relations. With sach a great amount and variety of power, maj we not augar the most beneficial resalts to agricultare, if the women of our country, by their sympithy, encouragement and coope ation, by their stadies and coungels, would profe themselves, as did the women of old, belpmeets to him whom God nas ordained to cultivate the earth ?--Baltimore Américain.

Natural Barometer.-The spider, says an eminent naturaltst, is almost universally regarded with disgast and abhorrence; yet, after all, it is one of the most interesting, if not the most useful, of the insect tribc. Since the days of Robert Bruce, it has been celebrated as a niodel of perseverance, while in industry and ingenaity it has no rival among insects. But the most extraordinary fact in the natural history of this insect, $i_{3}$ the remarkable presentiment it appears to have of an approaching change in the weather. Barometers, at best, only foretell the state of the weather with cerpainty fnr about twenty-four hours, and they are very frequently fallible guides, particularly wien thes point to settled fair. But we may be sure that the weather will be fine twelve or ffurteen days, when the spicer makes the principal threads of its web very long. This insect, which is one of the most economical animals, does not commence a work requiring such a great length of threads, which it draws out of its body, unless the state of the atmosphere indicates with certainty that this great expenditure will not be male in vain. Let the weather be ever so bad, we may conelude with certainty that it will soon change to be ssttled fair when we see the spider repair the damages which his web has received. It is obvious how important this infallible indication of the state of the weather must be in many iustances, particularly to the agriculturist.

A Plea for ${ }^{\text {ºnet. oots.-A correspondent of }}$ the Rural $\mathcal{N}$ ew Yorker, thus urges farmers to cultivate rools:-"A frw acres of roots for home consumption should be raised on every farm. In behalf of horses, cautle, sheep, and swine, I plearl earnestly for roots. Fed as catt'e are iu winter, rith hay and straw only, who, I ask, would not call it dry fodder? A peck of tnrnips, beets, or carrots fed to each animal would be pleasant to them, and profitable to their owner. Horses should, by all meabs, have carrots. They eat them without catting, grow fat and sleek. Tarnips cat up fine and fed to sheep in spring when they get tired of hay, are of great benefit. Piggy, too, likes roots, though like some other folks he prefers to have them cooked. As a means of promoting the health of stock they are unsurpassed, and at the risk of incurring the displeasure of the M. D.'s, I assert they are far superior to pills or physic. A strong argament io favor of roots is the great quantity that may be grown upon an acre as compared with other crops. True, it is ame work to get down on the hauds to weed them when small, bat then it tends highly to promote that almost extinct virtue, hamility. Savages and barbarians live without caltivating the soil ; let us resemble them in this respect no longer."

Canaries - Rather more than three bundred years ago a ship was partly laden with little yreen birds captured in the Canary Isitonds, and having been wrecked near Elba, the birds made their escape, flew to the island, and there settled thenselves. Numbers of them were caught by the inhabitapts, and on account of their sprightly vivacity and the brilliancy of their voice they soon became great favourites, and rapidly spread over Europe. The original colonr of the canary is not the bright yellow with which its feathers are generally tinted, but a kind of dappied olive green, black, and gellow, either colour predominating according to circumstances. By careful management, however, the bird-fanciers are able to procure canaries of every tint between the three colours, and have instituted a set of rules by which the quality and arrangements of the colouring is roduced to a regular system. Still, tbe original dappled green is always apt to make its appearance; and even when two light-coloured birds are maied, a green yougg one is pretty sare to be fonnd in the rest. For my own part, I care little for the artificial varieties produced by the fanciers; and to my mind, an intelligent bird and a good songster is not une whit less attractive because the colours of his plumage are not arranged precisely according to the fanciers' rales.-Routledge's Jatural History.

Dangra of Cukcking Perspiration,-A medical journal publishes a severe caution againat allowing perspiration to be suddenly ohecked. All who are condemned to "eat their bread in the sweat of their brows," should give beed to this advice. As one illustration of the evils resulting from the practice whish it condemns, the following case, divested of technicalities, may be cited: A Boston merchant having worked pretty hard on board one of his ships on a windy day, found himself exhausted and perspiring freely. Hè sat down to rest. The cool wiod from the sea was delightful, and engaging in convereation, time passed faster than he was aware. In attempting to rise, he could not do $s o$ without assistance. He was taken home and put to bed, where he remained for two years, and for a long time coald only hobble about on a crutch. Such exposures frequently result in inflammation of the langs, pneumonia, ending in death in less than a week, or tedious rhenmatic affections. Multitudes of lives would be saved every year, if parents would explain to their chileren the danger which attends cooling off too quickly after exercise, and the importanceof not standing still after work or play, remaining exposed to a rind, or sitting at an open window or door, or palling off any garment, even the hat or bonnet, while in a heat. It should be remembered that a cold never comes withont a canse, and that in four times out of five, it is the result of leaving off exerciee too suddenly, or remalining still is the wind, or entering while
heated a cooler atmosphere than that in which the exercise has been taken.

Only a Penny.-I'lhe true secret of frugality is to lay up 3mall savings. Most people never begin to save because they fancy they have not a cum worth saving. Begia with a penny: now, this very day, and every day contrive to save a penny. At the end of the year you will have £l 10s. 5d. This sum would buy some good tools, or a good piece of household furniture, or useful articles of dress, or a number of inter. esting books; and it would be a pleasure to you every time you looked at what you had boughs out of your penoy saving. -If gou choose not to spend it, but to put it into the savings' baok, in five years you would have between $£ 8$ and £9, which would be a very valuable sum that might help you in many ways.-British Workman:

How the Savages Obtain Waikr,-LLivingston, the Airican traveler, describes an ingenious method by which the Africans obtain water in the desert.

The women tie a bunch of grass to one end of a reed about two feet long, and insert it in a hole dug as deep as theiarm will reach, they ram down the wet sand firmis around it. Applying the mouth to the free end of the reed, they form a vacuam in the grass beneath, in which the water collects, and in a short time rises to the mouth. It will be seen that this simple, but truly philosophical and effectual method might have been applied in many cases in different countries where wator was greatly needed to the saving of life.

The Magntide or British Trade,- $\boldsymbol{l}^{i}$ Loindon held so high a place among the graat exchanges of the world in the time of the second Henry, it now far outatrips all other competitors, though the whole of northern Europe has advanced. Hiram of Tyre spurned the gift of Solomon's cities in a consciousness of the grandeur of his own capital, that doubled itself in the blue waters of the Medeterranean : to have his own opinion on the magnitade of London and the extent of its trade would be a fine test of a shrewd and sober thimber for comparison. Cartharge and Alexandria sink into the position of mere classic bazasrs, if we sitempt to eatimate them statistically by the data of our own commerce; and Byzantinm and Fenice mast trust to their art for a place in history, now that their commercial boundaries are so far overpassed by that of a city which sends its ships to every sea, and gives new life and hope to peoples rendered imbecile by centuries of superstition and cruelty. In 1860, the import and export trade of Great Britain amounted to no less than the sum of three thousand and serenty five millions sterling, to the greater part of Which the city and port or London, directly or indirectly acted as sapercargo, ship's humband, banker, and cantomer at first hand-City Press.

## Receipt for Rhabarb Wine.

Some time since we noticed a sample of Rhuharb Wine, sent us by Mr، C. D Stevens, of La Salie Co., III. It was pronounced a very fine article by all who tasted it. Mr. S. gives in his method of making the wine as follows:
"I strip the leaves from the stalks, and crosh the latter in a sagar mill, and press them in a press having a three-inch screw. For a 40 gallon barrel I put into a mixing tub 20 gallons of jaice, 140 lbs of best brown sugar, and water enough to make 40 gallo:s. Mix well, and pour into the barrel, leaving the bung open, and keeping the barrel tull until it is done working, and then bung tight for six weeks. Then dissolve 4 cz . of isinglass in warm wine, pour it into the barrel and bang tight, leaving it so for a year; then rack off and it is fit for use, bat it will be much better at two years, and so on, the older the better. The sample I sent you is one year and eight months old.
I have plants enough this season to make 200 barrels or more. Am making it on shares as follows: any one farnishing sugar sufficient for two barrels, I make the wine and farnish the barrells, (keep it for them if they wish) and deliver them one barrel. If they farnish sugar and barrels for 12 bbla, I return them eight of wine. The wine I sent you, brought me $\$ 2$ per gallon. I could readily get $\$ 3$ for it now, if I bad it to sell. Jane is the best time to make this wine."
Wondras of tire Drbp.- What a beautiful pisce would be the bed of the ocean, if we could only have an opportauity to contemplate its tastness without fear, and with an opportunity to descend in safety to its profound depths and lovestigate, with ease, all its mysteries! What adelightfol chance, provided the personal safeIf of the explorer was secured, to spy out the pearly secrets; to gaze on the so-long-hidden gorgeousness of the silent caves and coral palaces, the forests and plains; the soountains and valleys of the submarine world. But the trath is that even if the sea were termporarily exhavested of its billows to accommodate our curiosity, it would be too dangerous in its thick, deep, nactuous bed, for haman footsteps, and wonld be too fatal to life in its rank exlialations to leave us a hope of adding much to ocit stock of koowledge as to its marvels. The curled, deepparpled leaves of the sea-lettuce, cover; no doubt, the bed of the ocean, and lie deeply intermized with the large porous lichens; the many branchcd hollow alge, fall of life and motion in their rosy little bladders, thickly set with evermoving arms. Seen from a height, the mass of luxuriout regetation, would present the appearance of a gay carpet brilliantly set off with shining ormaments, for among the leaves we might just atch a slimpme of the showily-painted molluscm;
the rainbow-tinted fish; the gigantic angang, the siren of the ancients ; the sbark, with ${ }^{2}$ hif leaden eyes; the thick-haired sea-leopard, and the lazy tartle. And what a picture it would be!

Uaw Instets.-[T'o "G. G.." written on reading his contribution to The Field, of April 5 , wherein he says "worms, beetles, ants, and other ugly insect8."]
"The sage, and the heetle at his feet, bave ench a ministration to perform.' ${ }^{\prime}$-'Tuprera. Oh, term not insects "ugly

There never yet was one
Of God's created creatures,
Since earth from chaos sprung.
But that possessed beauty,
Or proved a purpose wise;
So think of him who made them, And ne'er their form despise.
Ants are endowed with instinct So wonderfully grea,
That men with reason gifted, Might them their models make,
In various daily matters
Fertaining to this earth ;
For industry and foresight Are traits of sterling worth.
There's beauty in the beetleLook at his barnish'd wing;
And usefulness-he clears the ground (If many a noisome thing.
And so he aids to till the soil:
Thus we should ne'er condemn
His form as " ugly," nor forget
The good he does for men.
The earthworm is not lovely To look upon, I ween,
But many a serious lesson We from a worm may glean.
Did we but rightly ponder That sad yet true decree-
"The worm, she is thy sister," How bumble we should be!
Then call not insects "ugly," For God has made them all :
The hage gigautic white ant, And ladgbir'́ so small.
They all possess some virtue, Are objects of His love,
Who says that not a sparrow falls Unknown to God above.

The Gaen Society of agriculturb amo Cowizros, founded in 1762, has just celebrated its hindredth anniversary-a fact which shows that there is more "solidarity" in the French rural character than many persons would be diaposed to imagine. The sooiety has eapecially devoted iteslf to the improvement of the pars Norman breod of stock, which it has contebded


#### Abstract

is capable of amelioration per se, like all choica races, and it has constantly discouraged the introduction of foreign blood, whatever might be its merit. The amelioration and conservation of the milking qualities of the breed have been particularly keat in view; and the society imposes on its "loureats," or principal prizomen, the condition of keeping prize bulls in the district for six months at least, and cows for a year, in ordar that, the rewarls given may not be turaed to exportation account, and the sto.k rewarded lost to the localits.


Roles For Reading.-Read much, but not many works. For what purpose, with what intent, do we read? We read not for the sake of reading, but se read to the end that we may think. Reading is valuable only as it may supply to us the materials which the mind itself elaborates. As it is not the largest quantity of any kind of food taken into the stomach that conduces io health, but such quantity of sach a bind as can be best digested; as it is not the greatest complement of any kind of information that improves the mind, but su:h a quantity of asuch bind as determines the intellect to most? vigorous energy. The only profitable kind of. reading is that in which we are compelled to think, and think intensely ; whereas that reading which serves only to dissipate and divert our thoughts, is either positively hurtful, or useful outy as an occasional relazation from severe exertion. But the amount of vigorous thinking is usually in the inverse ratio of mu'tifarious readiug. Multifarions reading is agreeable ; but as a habit it ia, in its way, as destructive to the mental, as dram-drinking is to the bedily health. "Ovr age." says Herder, "is the reading age;" and he :dis, "it would have been better, in my opinion, for the world and for science, if, instead of the multitude of bonks which now overlay us, we possessed but a few works good and sterling, and which few would, therefore, he more diligentiy and profoundls studied."-Sir $W_{m}$ Hamiilon.

## EVitorial Notices, Kic.

The Westminster Review, October, 1862. -Blaciwood's Magazine, October, 1862.

We have received, through Mr. Rowsell, of this city, from Leonard, Scott \& Co., New York, the American Edition of the Standard British Periodicals.-The Westminster contains its usual quantity and variety of ably written articles. The one on Slave Power will be read with great interest on this side of the Atlantic, at the present critical time. Among the other articles that will attract:
general attention may be mentioned: Essa: and Reviews ; Dr. Lushington's Judgme thereon; The British Sea Fisheries; Railway. their Cost and Profits; Gibraltar; The Enc: clopadia Britannica; The Religious difficultie of Iudia; with the usual claborate article o Contemporary Literature.

Brachicood is as rich and racy as ever. Th October number contains a continuation o those pleasant scrials-Caxtoniana, and th Chronicles of Carlingford; Italy and France with an exceedingly interesting paper to ou reader generally, called Ten days in Richmon -We most strongly recommend these we cxecuted Reprints, belonging to the very high est standard of British Literature, to all tha desire to keep pace with correct thought anc opinion on the leading questions of the day at the smallest possible eapense. The fon British Quarterlies and Blackwood's Maga zine at $\$ 10$ a year, must be regarded as : miracle of cheapness.

Tife Inlustrited Annual Register o Rural Affairs for 1863. Albany, N. Y: Lu ther Tucker and Scn.

The ninth annual issae fully sustains th high and useful character of the Register e Rural Affuirs. It is "got up" in the neat erecuted stgle which characterises the Mess Tucker's publications, and is ably edited b the well known agricultural and horticultur. writer, J. J. Thomas. The present numb: consists of 130 pages, with 110 well execute engravings, embracing a great variety of su jects connected with the farm, garden at houschold, and all for the marvelously 10 price of 25 cents ! The publishers offer mo liberal termsfor its introduction in quantiti either to Agents, Agricultural Societies; $\mathrm{N}_{2}$ serymen, Dealers in Implements and See. or any others who may take an interestin $t$. dissemination of useful reading, and in promotion of Rural Improvement.-We कh. be happy to know that the Rural Rojizt. and also the Country Gentleman (weekly), a the Cultivator (monthly), are having in: creasing cirçulation throughout the Brit. Provinces. They are publications of the hid est reputation.

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Further particulars may be known by applying either personally or by letter to Protessor Buck land, Unversity College.
Toronto, Nov., 1862.

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