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## Duncan's Improved Hay Elevator.

Ayono the implements at the Proviacial Exhibition we noticed a very simple bnt apparently efficient hay elevator, which was shown at work, and so far as we conld judge under the circumstances, seemed to be very easily manipulated and to perform its office thoroughly. The invention is Mr. Duncan's, and rights to manufacture, as will be seen by advertisement, are sold by Mr. Mann, of Port Dover.

The accompanying illustration slows the appearance and construction of this implement. The working gear, represented by the dotted lines, is enclosed by tro hands of iron, or one band bent into a loop at the top for the insertion of the hauling rope, and uniting at the other extremity in a sharp point to be driven into the hay. The weight of the enclosed bar throws the point of the beard up so that it offers to impediment-to the passage of the fort into the mass of hay to be elevated; and the meight of the Lay itself presses the beard down hall way, where it is retained in position by the spring catch at the upper end of the inner bar. By pulling a rope rith an easy and slight jerk, the hold of this catch is detached, the weight of the hay will then force the beard completely down, and the load on the fork is liberated. The implement appeared to work well, and does not seem liable to be soon disarranged.

We have been furnished with a certificate from a number of farmers and others in the Tornship of Woodhouse, who have used this new fork, and testify to its efficacy and confidently recommend it. Now that labor has become so scarce, and rages so high, erery calcient labor-saring contrivance is a valuable boon to the farmer, and a cheap and good horse hay fork, which this appears to be, is not the leastimportant of such useful inventions.

## Structure and Growth of Stems.

Is a recent number of the Cavada Farmer a short account was giren of the roots of plants; the subject of the following remarks is the structure and growth of the stem.
For the clearer explanation of the matter, it may be necessary, perhaps, to recapitulato briefly What has already been said in regard to the germination of seeds. If the reader will examine any seed in the act of germination, ho will find the rudiment or emblyo of the future plant in the form of a slender stem, one or tro more or less feshy leaves or cotyledons, and between these seed 'saves, when there are tmo, or at tho base when there is only one, a small bud. In germination, this stem, which is technically called the canllcle, increases in leogth uatil it pushes the tro seed leares above ground, while it
sends out roots from the lower extremity. The little terminalbud, or plunule, then expands:nd developes another leaf or pair of leaves, with a stem, which goes on lengthening so as to raise the new leaf or leares some distance above the first. The subsequent growth of the stem consists merely in repetitions of this process. Hence the summit of every stem is always occupied by a bud. A bub is also produced in the upper angle formed by every leaf with the stem. This angle is called the axil; and buds occurring in this sitnation are called axillary buds. The derelopment of these buds gires rise to branches :

and the growth of those branches proccels in a maneer precisely similar to that of the original stem. The general character and duration of these parts form the distinctive features of the popular classif cation into trecs, shrubs, and herbs. When the wholo is perennial and the main stem forms a distinct trunk, a treo is formed; and when the distiuct trunk is wanting, the principal branches springing up in a bushy manner close to the ground, the plant is called a shrub; whilo, if the stem is but of ono year's daration, though the root may be perennial. the tern herb is applied.

The nutriment of plants-principally water, containing carbonic acid and ammonia in solation-is chiefly absorbed by the roots, and is thence narried through the stem to the leaves, where it undergoes a change under the influence of light, and is fitted to become part of the living vegetable organism. The claborated sap then descends, and by some wonderinl process, the nature of which is unknown, is converted into wood. That the nutritive fluid descendsfrom the leares to form the wood is erident from several considerations. For example, the growth of new wood, other things being equal, is directly proportionate to the exient of foliage, and the growth of the treo begins and ends with the vitality of the leares. In endogens (a class of plants of which me shall speak presently) the new formation can be traced from the base of the leares downwards. Again, if a bandage be tied round a branch, a swelling will take place above the ligature, vecause the nutriment descending from the leaves will be there arrested, and the pari in question will receive an undue quantity of nourishment.

The mode in which the new wood is arranged in the stem gives rise to two general types of structure, on :ihich two great classes of plants hare been founded. In all those plants in which there are two seed-leaves, or cotyledons, the wood is arranged in a series of concentric layers around a sentral pith, and between it and an, external bark. Eac'l of these concentric layers represents the growth of one year, and was formed within tho bark and outside the circle of the prefious gear's wood. This mode of structure is termed the exogenous strature, and plants in which it occurs are called exogens-outward growers-or dicotyledons-the latter ramemeaning plants with two cotyledons. Plants of this class resemble each other not only in the number of their seed-leares and in the structure of their stem, but also in many otber important particulars. The veins of their leaves are spread out in numerous ramifications, and form a net-rork, and the parts of the flowers generally occur in circles of five or some multiple of that number-sometimesin fours orsevens, but very seldom in threes.

All the large trecs, and most of the lerbs, of temperate climates belong to this class. An illustration of erogenous structure may bo easily obtained by cutting across a stick of any ordinary rood, as maple, when the layers of wood will be seen in the form of concentric rings. The section will also show lines of communication between the central pith and the outer circles. Theso aro called medullary rays, and eatablith a connection between the central colama of cullular substance and the leares and lateral branches. Their integrity is essential to the life of the plant. Outside of the roody cirales, in steras of the exogenous structure, is a sovering of bark, which, like the main column of rood, also increases by the Iformation of anaual circles; but these are deposited
tithin the layer preriousls formed. In consequence of the bark being continually generated within that of the previons year, it is necessary that the lasers, whichare pathed wituards, shouldbe extensible; and in many plants this extensibility is very remarkable. In the appleseveral sucesesire zonors of bark are formed without any appearance of dislocation or disformed whont any appearance of dislocation or dis-
ruption of the tissue ot the outaide ; and in a ppecies ruption of the tissue of the outside ; and in a species
of laure. Daphe Saryeth, the dibres of the harh of laurel. Dathue anyeth, the bothres of the hark the forec of the invard growth they are merels soparated into lozenge-shaped ueshes armaged in such leseatifal utdel as to late acepured fer the plant uselt the n min of thi lane Burk Tiece. There ciata, hushever in all mase a limit to the crlensibility of the old layers of bark : and when this is reachen. the outer bart enther splits into deep fissures, as in the
 prate climates, or it falls away in broad plates, as
in the plane, or peels onin long thin ribands, as in in the platin

In those planis that hase but one seed-leaf (hence called monocotylations) the structure is very different from that which has just ween described. There is here wo celitral pith, and no distinut separable bark. A cross section of a piece of cane anfords a Food illustration of this mole of growith. There are
here no mnat rings, but the surface of the section here no annual rings, but the surlace of the section
appears zorered with a nuther of dots irregularly appears curered 11 ith a number of tots irregularly of roody fibre, which in this elass of plants are pushed domn from the leaves anoug those of previous growth without agy paracuar order. Phants growing in this manner are termed endogenous, the word meaning growing inwards. Peculiarities ot leaf and flower distinguish this order of plants, as well as that of which we hate already spoken. The veins of the leares in this cascare paralled; and the parts of the thurer are arramged in circles of three, or some multiple of three. Palms, grasses, lilies, etc., are examples of this class.

Thowgh the style of structure is the same in all, an vadless rariety may be observed in difierent tribes end species of plants. White the majority stand erect and independent in their sturdy strength, not 3 for trine around or cling by tendrils to other objects for support, and so raise themselves into the air and light, others trail along the surface of the ground; and some even burrow under the surface. The vine, the runacrs of strawberrics, and the underground stems of the couch grass (trilicum repens) are familiar examples of these somewhat exceptional forms. The last named are excessifely tenacious of life, and di-
rision seems only to stimulate fresh derelopment. A vegetable hydra. it sends forth new scions from every mutilation, so that it is almost impossible to eradicate it by aucre ploughang. The potato and other tubers are lut at moditication of underground stems, which in their case is very much enlarged, and stored with starchy matter. Thesurface is dotted over stored with starchy matter. Thesurface is dotted oret which under farsrable circumstances shoot out into new branches. These are but a fer of the endless modifications which may be seen in the structure of stcms; and we uilust refer the reader to bystematic works on botany, and to his oma porrers of observation and study for further light on this iuteresting subject.

## Harvesting Carrots,

Mr. Wires, of Marblehead, stated to the Buard of Agriculture the method of harresting carrots as practised there, as follows:

Our methud is to top them, either with a hoe or shovel, (we generaliy use a shovel.) and then use a sub-soil plough, and so far as my erperience gocs, it is the only use to which a sub-soil plough can be put to any advantage in our county. Previously to ploughidg the tops are raked off the field, so as to
be entircly out of the mas. We then run thesub-soil be entircly out of the mas. We then run the sub-soil plough directly by the side of the row of roots, which with potato diggers, forks or hocs, we go along and rake them out, so as to lift them from the ground and throw them invart, leaving room for the team to go through again. We first turn a back furrow in the centro of the piece, and go round that back furrow, drawing the carrots into the centre, and leaving a space for the horse or or to travel, without treading upon the carrots. That leaves them spread all orer the sorface of the ground. We do that in the forenoon ; in the afternoon wo pick them up, throw them into the carts, and mat them into the cellar. That gives about half a das's time for the carrots to dry, and in picking them from the groumd and throming them into baskets, the dirt is mostly shaken off, so that, if the
weather is suitalle-and dry weather ought to be chosen for the harresting of roots-they will go into the cellar dry, which, in my opinion, is very impor-Lant.-DIass. Slate Agricultural Repmrt.

## The Sewage of Towns,

A mass of ralnable information oll this subject has just been issued from the press. The papers by rarious authors read at the congress on the sewage of towus, leld at Leamington, Warrichshire, last year, huve been gathered into a solume. It is stated in the introduction to the papers that one chief object of the congress has been attained in mahing plain the nature and causes of the failures in our sauitury arrangements, ind the many evils which hare atisen vut of them, owing ts the unnatural admixture of evereta with large quantities of water, and to the prevailing custom of empluying water as the vehicle for their removal out of our lionses. It is argued that vast benefits will accrue to the community at large from ccasing to use water, and, in place of water, resorting to the natural agency of earth, which is ns old as the creation itself. Experience has taught that, after the admixture of water with excreta, a putrid fermentation and decomposition result. The noxiuus gases generate while this decomposition is in progress, fill uar habitations with impure air, and become the frequent cause of cpidemies, while the decomposing sewage water, escaping from the imperfectly constructed sewers, percolates into the wells of driaking water. Mr. Hitchman goes on to state that the result of irrigation nih semage water is unsatisfactory in a comuercial point of view, and of doubtful ralue agriculturally; while, in a sauitary point of vient, the effeets of saturating a large sunface of land with decumpused sensage water become a still further source of evil. Both the liquid and splid excreta may be made portable and inoffensive, and removed from houses with regularity by a staff of oficers dnly appointed. IBy the exclusion of water, and the misture of earth with excreta, which is in accordance with the laws of nature, all the evils of a putrefactive decomposition are aroided. The working of the carth-closet system at Baron Rothschild's estate is deseribed by dr. Jumes to be perfectly successful. The cottagers express themselres graterul for this addition to thoir health and comfort. The village has now no foul smell, nor are the ditches any longer filled with liquid Alth. This is the result of a simple mixture of dry earth with the soil; and is in accordance with the Divine command, receired through the great law-girer, Moses, in his well-known rule for the sanitary arrangement of the Jewish camp. Mr. Craig, treating the subject as one of national is well as sanitary importance, shons that Austria is almost banhrupt ia her exchequer, mainly throngh the exbaustion of the soil. Until recently, sbe exported her bone manure, and threw away her sewage into the Danube; wbile China and Japan have turned loth to profitable use on she land. Belgium, with the poorest of goils, maintains the greatest amount of population in proportion to the extent of its surface of any'nation in Europe, and extent of its surface of any nation in at the same time the productive powers of the soil by a liberal and judicious application of manure to the land. If England hat adopted, long ago, the dry earth system which bas been found to nork so successfully on Baron Rotaschilit's esfate, at Lancaster, and at other places, and had been more practical and prudent in returning the guavo to the soil, instead of throwing this rast sonrce of national Wealth intu ber rivers, to poison fish, pollute the water, and disseminate disease and death, thousands of lives destrosed through drinking impure water in times when cholera was epidemic might possibly hare been safed.-Iromdun Times.
Notr: es Editon C. F. - Cousiderable inconrenicnce appears to lare resulted in the neighbourbood of several English towns by the application of the serrage to the surfaçe of fields, though in other localities a marked improvement in tre crops is claimed as the result of this practice. In one instance, at Malvern, great complaints were made of the unpleasaut and evil effects of this method of employing the sewage, in contaminating the air; and the authoritics, atter trying various expedients and getting into fresh difeculties and perplexities, having called in the assistance of an able man of science, acenstomed to the practical working of various systems of the kind, were recommended by Lim to adopt a plan of subsoll irrigation, as the onls effectual remedy for the evils complained of. His method was to conduct the sewage beneath the surface into a scries of perforated pipes, and thus at once aroid tho ill effects of the surface application
on the air, and deposit the fertilizing matcrial where. be contended, it vould be most beneficial in increasing the productireness of the soil. Without discussing the merits of the suggestion, it is only necessary to advert to its axpeuse to show the great superiority of the dry earth methorl, which commends itself to the judgment of most unprejualiced persons us being mote natural, chapand empacious. I has we be'seve tu be the right principle of rendering innoxious and ntllizing the solid and liquid ammal excrements in vur towns and private dweltags. The method is gaining great favuur, and its general adoption would be attended with inc.alculable benefit.

## Extorminating Clarlock, or Field Mustard.

Tuf nperatinus of extermiating weeds generally axtend nyer more than one scason, especially in the case of the mest tronhlesomi and ubstinate. The following artirla, from the . 1 merican . 1 griculturist, though rather late for the preseat year, cuntuins valuable suggestions, applicable to other pests besides that immediately under consideration, and will furniah as grod an answer at wo can give to certain enquiries ahich we hate lately secerved on kindred subjects.
We know of no weed that is so dimicult to exterminate as rharlock. Canada thistles, dasies and dock can be eradicated with facility, compared with this. Field mustard is an annual plant, having leares like the turnip, and bright gellow howers. It starts from the seed at any time between early spring and late autumn. The plants grow rapially, and produce a large number of seeds in a sloort time. In ordinary seasons, two crops will mature on the same field, but winter kills every plant. The seeds will remain in the ground a lifetime, withont losing their vitality. We have cultivated a field for sixteen successire seasons, allowing no mustard to go to seed; but deep ploughing brought seed to the surface the serenteenth ycar, so that the ground was nearly cosered with the young plants.
When wheat, ryc, barley, oats, flax, and such crops are raised, if there is mustard seed in the suil, it will appear, and will ripen its seeds lefore the crops. Much of the secd will shell out while the grain is being harrested. If it shouht not be covered with earth sufficiently deep to promute vegetation, it will remain until the neat seasun, or bitil the moisture and leat happen to be just r, out to cause germization.
There are two things indispensably necessary to exterminato mustard. One is to allow no seed to mature; and the other is to cultirate such crops as will induce all the sed to regetate, that the plants may be destroyed before they go to seed. Grain hasing mustard seed among it, should never be fed to stocls until after it is ground into incal.
When mustard comes up very thick, harrow the ground thoroughly, ns soon as the crop of grain has been remured. After a few weeks have elapsed, harrow it again. This will deatroy most of the young plan's in the seed lear. After this, use a cultirator fin sall of a harron. These repeated scarifyings will cover the seed and broug others near the surface, so that a Jarge proportion will vegetate and dio before winter. The next season harrow the ground early in the spring, su as to start a new crop of the seed. Plough it soon after the time for planting Indian corn. Harrow again in abont tro weeks. Afteranoleer frrtnight, plough and sow bnckwheat. As soon as the buoknheat is harvested, harrow the ground again. The next season mannre well, and raise a hoed crap; and allow no mustard 10 go to seca. Next, sow a crop of winter grain. The mustard may now appear quite thick, bat none of it will have tine to ripen before winter, when erery plant will dic. A limited romber of plants will appear the next seasoth among the slanding grain. When they are in fall bloous, let overy one be pulled. A careful, faithful man will be able to pull all tho mustard in a day that will appear on several acres, after the soil has been treated in the manner recommended. Aner this, any kind of grain may be zaised. But for more than twenty ycars mustars whl cono up erery season, and must bo priled up before it ripens. This is the only way that our cultivabla fields can be rid of this pestiferious plant. Incessant effectually.-American Agriculuurist.

## Seven-eared Wheat-Bald Barley-Russian Rye-and American Bee Plaut.

## To th. -ilitor of Tus Casada Fansen:

Silf,-1our number of 15 th Dec., 1866, contained " statement of mine relating to the " seren-eared Wheat" I brought from Utah, and of whels 1 sent Prof. Buckland at the tine-through Sterrart CampLell, Esq, Sec. of the County of Perth Agricultural Society-some plants of the first season's growth here. I now send you some heads of this, the second season's growth. You will observe the grain is as white as fall wheat, but I am sorry to say it has not met mg expectations. The plant is luable to rust, the heads are smaller than last year, and are not well filled, and it appears to be running to a single ear. In fact, it is not adapted to our clímate. I will, however, fur experiment, try at again next scason.

I also sena sun sume heads of "Bald Barleg," brought by me from Ctal. This is its second season here, and it dues well. It yields largely, and the grain is bald, plump, with clear thin skin, and very large.

I send you, in addition, a ferr heads of "Russian Rye," brought from California-originally from the Amoor River, Siberia. The grain is of good quality, plump and white. I think it will suit our elimate.

The abore specimens are not selected, but are average heads.

I obserted a notice in The Casada Fabier of Juds 15th this year, copied from the lllinois Prairic Furmer, of the "American Bee Plant," (Cleome Integrifolia.) I also brought home seed of the same from the Rocky Mountains, and have grown it here two scasons. The description contained in the notice is very correct. It blooms freely, is ormamental, and the bees prefer it to otber fowers. I send you , few seeds, and as I have a considamble quantity, I will willingly send some to all who apply, post-paid. It should be sown in the autumn, any time before the ground freezes. It will, after that, seed itself. It should be sown thin, as the plant branches considerably.

## Stratiford.Co. Perib, Ont.

Sept: 25, 1867.
Note br En. C. F.-We are very much obliged to our correspoadent for the samples, with some of which we hope to experiment. The seren-eared wheat has a stroug resemblance to Egyptian wheat, und if it had been adapted to this climate, would have been a great acquisition, as it must be vers prolific where it thrires. The rye is a fine sample. The grains of "Bald Barleg" are remarkably large and plump. The raricty seems well worthy of trial. We feel particularly interested in the seeds of the American Bee Plant, and shall sow them as our correspondent directs.

To The crop of dax seed raised in the West this year, is supposed to be at least twice as large as that of any provious season.

Fonest and Field.-The forests in France are under the care of the Government, and under the new laws for their protection they have increased nearly one million of acres. Less than one-sixth of the arca of the kinglom is covered with wood land. This is much less than is degirable for the best interests of husbandmen. It is estimated that from 20 to 25 per cent. of a country ghonld bo covered with forest in order to securo uniformly good crops. Our forests, now dis
appearing, dems-it the attention of Government.
Drancias.-The Metropolitan Sanitary Commission of London compute that for every inch of water drained off, and which would otherwise pass into the nir as vapor, as much heat is sared per acre as would raise 11,000 cubic feet of air one degree in temperature. A farmer was asked the effect of some new draining, when he replied; "All that I know is, that before it was done I could never get out at night without an overcoat, but now I never put one on" A physician took one of tho Sanitary Commissioners to a hill overlooking his district. "There," said he, "whersver you see thove patches of whito mist I havo frequent illneas, and if there is a cess-pool, or other naisance as well, I can reckon on typlus crery now
and then. Outside these mists I am rarel, wanted."

## गitctinary Deppatment.

## Hernia, or Rupture, in Horses.

Byhernia is understood the protrusion of some part nr parts of the intestincs out of their natural carity, through some natural or artiacial opening; and according to the part or parts where the lesion occurs it takne a distinctive name. In tho horse, the different kinds of hernin usually met with aro foar in number. When a portion of the intestine is protruding through the umbilical or narel opening, it is called umbilical thrnia; and in the present number we shall give a short uotice of this affection, which is rery common in sucking colls.
limbilical hernia can be casily detected. A fumour is observed in the lower ralls of the abdomen in the umbilical region; the tumour is soft, and by presempe of the hand can be returned into the cavity of the belly; the walls of the opeaing can be oasily felt. Irior tu birth, the navel opeang is for the passage of the unbilical cord or narel string; and in a short time after birth, closure of its walls usually takes place, and the cord becemes obliterated; but it occasionally happens that complete closure does not take place, and a portion of the gut, or the substance by which parts of the intestines are attached (omentum), is spt to get impressed into it and become imprisoned, thus constituting umbilical hernia. Mernia is again divided into three kinds. When the protruding portion of the bowel can be readily returned into its natural cavity, the hernia is said to be reducible; when it cannot be returned, it is called an irreducible hernia; and when the hernia becomes constricted at $t^{\prime}!e$ mouth, 80 as to impede or altogether arrest the circulation of the blood, this is designated a strangulated bernia. The hernia in question is generally of a reducible character, and when small, it appears to inconvenience the animal very little. In young animals, it is often not necessary to hare recourse to an operation; for as the colt gaius strength the bowel frequently recedes into its natural situation, and the retraction is followed by complete closure of the opening. When, how ever, the hernia appears to incroase in size, something should be done at once for its reduction, as the smallest hernia proves unsightly; and although not interfering much with a horse's usefulaese for ordi. nary work, it materially depreciates him in marketable value.
There are many ways in which it can be reducedriz., by ligature of the skin, by clams, skewers, sec.; but such applications slould only be used by a person conversant with the anatomy of the horse. It may also frequently be reduced by means of a truss or bandage, which is a safer methou in unprofessional hands. After tho tumour has been roluced, a small pad, which may be secured in its place by means of some adhesire plaster, should be applied over the opening, and bandage should then be applied around the body, and gradually tightened, according to the size of the abdomen. The bandage may be further socured by means of a circingle, to which is attached a crupper. The pad and bandage must be wora for a considerable time, and the colt should be well fed on a nutritious diet-good keep tends to strengthen tho muscular fibre. Dimbilical hernia, howeror small, is an unsoundness.

## Cat ©aity.

## Rennets-A Caution,

To the Enitor of Tae Caidida. Farmer:
Sin,-The cheese-making business of Cangda, al thouch just now in its infancy, is making very rapid strides orer the whole of the Dominion. Great care is needed in the manaftucture, and one very important element is tho selection of, and curing of the vells from which the rennet is to be extracted. These
should be from the sucking calf (no matter how tender the age), and dry, salted down in cask or crock; and if kept for sereral months, so much the better, and the rennet will be much finer flavoured. The pride of the skilful dairgmaids of England is in a clean, well-ventilated dairy and a supply of fine old well-seasoned rells to begin the season with.
Thore is ono thing I wish to caution the trado against. Through ignorance on une part, and dig. honesty on the other, n number of sheep s maws have been bought up in this country and sold to unsuspecting parties for the maw of the calf. Now, to use rennet made from suoh articles entails a serious loss; for, although the curd may be scparated from the serum, the separation is not complete, and the flarour of the cheese is consequently very much impaired, and its keeping qualities are deteriorated; in fact, they are not the proper article to use, and checsemakers cannot be too careful to be certain that there are none such among their rells when they put them in the rennet jar. Those who are not aware of the difierenco should go to the nearest slaughter-house, cxamine some shecp's maws, and compare the two ; they will soon learn to discriminate one from the other by the food, and also by the internal appearance, and they need not be deccived.
I was in St. Anne's Market, Montreal, a few darys since, and a butcher informed me he had bnown quite a number of sheep's maws sold for calf's during this past summer. So let me adviso cheese-makers to lodk out, for no doult there will be many put aside during the winter, and there is no saying in what market they may be ofrered. I trust these few words of caution may prove of sorvice to the inexperienced.

Oct. 2, 1867.
rarin colletr,

Raverd Better por Coosing.-Many persons sueer at the common notion that butter two rancid to be eaten raw upon bread, may be used without objection in cooking; but this uotion, liko many other popular ideas, is more in accordance with the truth of the matter than the imperfect knowledge that ridicules it. All fats are conspounds of acids rith glycerine. Butter is a mirture of several fats, and one of them, constituting, however, only a small portion of its mass, is butyrine : this is a compourd of butyric acid with glycerine. Butyrine, like other fats, is a neutral substance, but when it is decomposed-in other words, when the butyric acid is separated from the glycerino with which it is combined-we then hare tro substances, the acid and tho glycerine, exhibiting each its peculiar properties. Butyric is a very porserfulacid, caustic and sour, and baving that peculjar strong odour which is characteristic of rancid butter. One of the early steps in the decay of butter is the decomposition of the butyrine, which is made manifest by the odour of the butgris acid set free, and by the sour and biting tasto of this acia. Now, at a temperature of 315 degrees, butyric aid is evaporated, hence it is only necessary to raise the temperature of the butter to this point in order to drivo off the acid whick makes it rancid, and to lenve the remainder perfectly sweet. If rancid butter is mixed in a cate, a portion of the butyric acid will be absorbed by the water in the cale and it may not be all expelled by the heat in baking; but if the butter is need for frying in an open pan, it is pretty certain that the butyric acid will all be evaporated. With a knowledge of the properties of batyric acid, a gkilful cool ought to be ablo to use rancid butter in such ways as to retain none of the rancidity in tho cooked'articles,-Scientific American.

Frsaac Eatch, of Littlo Rock, Ill., produced 405 pounds of cheese from each of his fifty-five cows in one year. From the sale of the cheese was realized $\$ 4,031$. - So says the Sycamort Republican.
gal Mr. Blood, living in the vicinity of Merki mer, N. Y., Lept, this summer, eleven corrs, a bull and a horse, upon two and a half acres of land. The stock was kept in a yard and soiled. The land hat been cut over geveral times to furnish the necessary food during the season, but the stock had been kept. This fact might suggest the question whetier our farmers, ordinarily, wero getling the best resultsthat could be had from their lands.- Western Rural.

## Lewis's Labour-Saving Churn.

Time accompanying illastrations represellt an ingropement on the uld da-h (lman, patenteal by Mr. K . tewis, of Jelbomrne. Although a great variety of aew churns hare been inented. many buthermakers


Fic. 1.
still prefer the old and sommonest form, which is represented in Fig. 1. The adrantages which Mh. Lewis claims are, as explained below in his own wurds, a gain of powerby reversing the chnrn, having the wider diameter at the top instead of the hottom. I3y attaching the gearing shown in the second Alustration, very great tacility is also obtained in working
the da-her, and the labour of oburning is thes materially diminished. The following is Mr. Lewts a neconat at the msentoon. - Charang mast be perfiethed las labunt, enther manal or mechancal; ant as the cold Dish Churn is held in higher (or at least mure permanent) estamation than any other, the inventor ventures to prove that the old Dash Churn is really the best. prosided it is properly improved. This the projector proposes to do. by simply turning the churn upside down.

- I reference to the diagrams will better illustrate this iden. Fig. 1 is a representation of tic old bash Churn; lig. g, Lewis's lmproved Churn, with gearing.
" Fig. 1. the good old Dash, in which it will be scen that the greatest amount of physical habour is eequired when a person is in a position the least able to chect it, and that is in the up-stroke-and why? becouse the cream las to be drawn up into the contracted part of the charn, which nffects the back and loins. whilst the down-stroke, which is more easily effecten. is comparatively lost, because the churn. being larger at the bottom, the cream spreads from mulerneath the dash; whereas in Fig. 2 the reverse is the case. The up-stroke is casier, because there is room for expansion; whereas the dorn stroke has the full effect of the power brought to bear upon it.
-. Hence, then, it will be seen that there is great advantage in haring the widest end up, as the butter is made better, quicker, and easier.
- Fig. 2 is a representation of Lemis's Patent Action. There are two standards afined to the side of the churn; they are made high enough to admit of a wooden connecting rod, which is attached to the crank and dash staff by a $\frac{1}{2}$ inch turned wooden pin passing through the upper end of the staff. The unper end of the connecting rod is secured to the crank by means of an iron pin orer the crank, as show $n$ by the hole to receive the pin.
- Length of cunuecting rod or ataff, about 12 inclues; iron axle. five-eighths iron; crank. five inches; fly-
whed.abont two fert-marloe worked with or withoul Hs-where. The toper lad through which the dash works is smalar to that in bigure 1 It is left off in order to Nhow the mohe of tining the connecting sod to the

dash staff. The loody in figure 2 does not taper quite so much as figure 1 . in order to gire a better sumace to stand upon; lut if a greater taper should be preferred, then it will be necessary to have a stand fitted."


## Storl gotpurturcut.

## Prize Yorkshire Sow.

The annexed engraring represents a fine Yorkshire sow, exhibited at the recent Provincial Show, where it took the first prize as the best sow of one gear old or orer. She is the properts of Zr . C. A. Jordison, of Wellman's Corners, IInstings county, by whom she was raised. She is a fine specimen of this large and usefu! breed, and well deservel the honors she has won, her success at Kingston not being leer firse trinmph. Mr. Jordison has, we understand, been for fourteen zears one of the most successful exhibitors of this breed. By reference to our alvertising columns, it will be sren that be offers this and others of his excellent stock for sale. To those who are fond of the large varinties. this is a good opportunity of making first-rlass addi tions to their yards

For family use the small breeds may be preferable. but there are advantages in regard to the market which render it lighly important to keep up the larger varieties.


At t:o recen: Exlibition, ti:e P:orcit of Mr. C. A. JORDISON, Vrellman's Comere.
ble of subsisting on coarse and scanty food, has been long a favorite in its native home, and on account of its execllent qualities has been cxtensively used in prir. . families or small dairies in England, and is gaining favor in the United States. Still another very dminutive breed, but highly esteemed by some for ther ducile temper, and, in proportion to ther sace, their good muthiug qualities, namely too Bretonne cors, has become fashionable in some quarters, where it is made a sort of domestic pet.
The illustration on next page represents a specimen of each of these varietiesthe animal on the left hand boing a kerry bull, that to the right a Bretome con, and the thisd an Nderncy cow. All three are small breeds, though some varieties of the Kerry cow attain a considerable size. The larger proportion, howerer, are decidedly small cattle. and on that account scarcely proftable to the farmer.
Thr: Kemuy Breed.-The natural babitat of this animal is, as its name denotes, to be found among the mountain fastnesses of the County of Kerry, in the north-west corner of Ircland, and the most westerly land in Europe. The climate is excessivel, bumid. and the slopes of its mountains produce but

t coarse and scanty vegetation. The vallegs, how- being specially adapted to hilly districts, where paserer, are often hisbly proluctive, affurding sweet, tarage is scant and coarse. Recently more attention and excellent pasture. This diatrit is mitmirabls ulapted to the raising of a small and harry rare ot .althe as well .is a useful breerl of sherp.
The kerry cattle were formerly back, with a white treak along the spitue, but of late sears they have leene of various colors- hack, brown, and of intermediate shados. Their horns are fine and long, senerally turuing upwards. They lave a soft, unctious skin, of an orange tinge, which is very appurent about the nose and cars. The mpresionn of the eye is bold, and their geseral form and symmetry often exceedingly aracefil. These catthe are ex tremely hatre. and maintain themeelves on scanty food in a much better condition than could be espeeted; bint when they are put on hetter pasture they
has been paid to the improvement of this breed, which, with a juticious selection of parents, and mote attention to feeding and shelter, is much increased in size for faltening, and equally improved in milking properties.
Aloerner Cattobs.-This breed is said to bave been imported originally from Normandy, but the principal source from which specimens are now procured is the largest of the channel islands, Jersey. A breed precisely simitar ia raised in the smaller i land of sldermey, bat by far the greater number are to be found in the principal ishand of the group, where they ate almost exclusively raised for the dairy and domestic uee, as well as for supplying the forcign market. Fhese animals are very docile,
been effected in the breed. The channel island brecders have taken great pains to lseep the breed pure, most stringent regulations having been adopted for this purpose.

By carefully selecting parents, and more regular and better feeding, the Alderney has of late been much increased in size, without any deterioration in milking capacity, and it is not now so dificult or costly a business to fatten them as formerly.

A few have been imported into the States, whero they appear to thrire, and are much esteemed for private dairies. Being natives of a particularly moist and mild climate, and susceptible therefore to the cold. it is doubtfil whether they could be acelimatized in C.mada, and still more donbteal whether they could be profitably bept here. The pure Alderney is certainly a delicate animal, and unfited for sudden vicissitudes or extreme sercrity of weather.

increase considerably in size, and prounce heantifnlly marked beef. which being of the best quality, commands the highest price.
The principal value of this breed consists in the adaptation of the cow to the domestic-dairy. For richness and quantity of mi'k, compared with the size of the animal and the amount of food consumed, the Kerry is perhaps not excelled hy any other breed. For this reason tho cow is lighly valued by the cottagers andi small farmers of Ircland, and is also used to improve the tomestic dairies of gentlemen living in the vicinily of large towns in England. In many parts of Ircland this breed has been crossed with the Longhorna, prohncing results that are by un means always favorahle. The Kirry cons mahe whirable first crosses with the Shorthorns or Herefords, anil produce animals generally well adapted to the dairy, and very excellent for fattening purposes. It is, howerer, desirablo to keep the brend distinet, as
uşually following their owners instead of being drisen. While feeding they are genemilly tethered(unless they are soiled) on acconnt of the rery limi. ted area of the island, which is but about twenty five miles in circumference. Pastures and lands of all sorts are therefore highly prized, and the most is made of every foot. The Alderney or Jersey cow yields a moderate quantity of milk, sometimes, however, the yield in this respect is excessive; but the principal quality for which they are distinguished is the extreme richness of the milk, the proportion of crean, and therefore the amount of bntter it will furnish, being far larger than in any other breed.

Formerly this breed was very small, miserably thin, ill-formed and ugly, and most difficult and expensire to fatten-such at least is the testimony of some who havo kept them, though others arer tbat when dry they fatton readily. Within the last twenty or thirty years, horever, great improrements hare

Bretonne Cattre.-These have lately become rather fashionable in England, and are held in estimation on account of their small size, docility of disposition, and the ease with which they can be kept on a small amount of food, while the quantity of milk they will gichd is, in proportion to their size, quite astotishing, equalling, it is said, the ordinary yich of a dairy cow of the larger breeds They stand about three feet high, and are mostly black and white in colour; the horn is fine, not unlike the Jersey, but smaller, and the milk marks aro well dereloped. It is said that they will hold:out in milk for cighteen months after calving. Their small size, though it may render them desirable as pets, and not interfere with their adaptation for die dairy of the private family, must render them itsuitable and unprofitable for the farmer, who will probably regard them rather as curiosities than as a breed of cny value.

## ceoulty yyurd.

## Meeting of the Ontario Poultry Association.

Tus association held its regular monthly meetiog in the Board-room of the $\mathbf{A}$ gricultural $\boldsymbol{A}$ ssociation, on Thursalay evening. October 3rd. The meeting was well attended. screral new members were proposed and admuted. As it is the intention of the cociety to hold another exhibution on the 6th and ith of next Norember, at which a large mumber of money and wher prizes will be arrardec, considerable interest is awabened on the subject, and the affair promises to be largely encouraged, and will, no doubt, prore a success, and make up for the defiencies ut King:ton. The game forl appear to be especially faroured, as in addition to the ordinary number of prizes awarded in the respectire classes, an extra prize of $\$ 10$ in cash is to be givenfor the hest game cock m any class. There is also a sweepstakes class for this fuwl, in which all birds competing in the other three classes, as well as those especially entered in this ci.us, will be allowed to compete. The Brahma Puotra chass has also a costly prize offered for competition. The subject of ineluding rablits in the exhibison tras discussed, and farourably reccired, and no dumbt, the exhibitious of next gear will witness the adutussion of the much-prized domestic animal in nddition to the poultry classes.

## Standard of Excellence in Exhibition Poultry.

## GA3ME.

ceitral shapt-cock.
Ficat--Simng, cerred, rers stout at tho haer
athichon inat has not been duboed siggle, smatl and thio. bir in front, fermated, erect and etraght; in older poarirrex, finall froticers or ridges on the edgea
Jhad-Ecug, thin aud tajer, very strong at the Juncturo with the
 a dota, fearless crireston

 ing to the tanl.
fond-branc, reurid atdrull, sainle featbers very short and
wings-sirona. Invia ami resy pomerful, tho butts and sbouldepart elichaty mised, as ir for a suduen spring, the re It 1 - 1 twilis to the ztdes puesing orer the upper part of the thighs, the posite yestios under the sadelo mare of
Tal- Rather lune the foathers very gound and not too broad, cay

 rainc: wis nholo of the tall folme backrards, and not
r'ag's-Tribif, stout, hard, and firm, rather chort
 coned whi very close ghont feathers so as to haro whitt apt carance.
 Eert-Bmail in, the fgursectoa lotr, he scales close and smooth. widl furnichnd with ctrong nalla, whith the hind too set t, H ot tho foot, standing wed backrards and tat on the ground, not mercly touching with the polat of the Plumagn luec slech rowicu

Ealy in huml- lery muscular and nrm, not for or hollow on the Futre, prefectly geraghe in the brease and hack, and gnite cos on in the li.j) boncs.
Carnagr-iprechlt art seand quick.
genral bhatringen.
geak-lanf shehly rurved, sharp at the point and stont at the (cme-sionsc fecily crect and stralght
t.

Mearl-iong, kender, very nest and taper
Facc-l a quick and ocry expression
ncafear-Firs E11, uil, and cluso to tho face.
Whiller-cma' $11 . r$, asd neatly ruunded on tho edge
Throat-Neat the frathere verve shert and close
Acch-l.ana, reathers very shorl. giving the verk a slender and

Wimgs betbere anil norrasug to the tan Wingt-lane ind wiurrful the to the tat
rather high, so as to cause a perfoctly fas back, tho
 harkwards, tho reathers not ecatlered or eqread out, bat beld neatly together

Brast-Broad, round, and promipcal
teos-Lone ters emooth, clexe, and ncal
Fect-Brand, nat add thin; toce epreading, lonz abil etmight, woll Suralshed rith strobs nath, tho hand too set low on tho foot, Etavding welt backirards, anil not nuck-sooted. ryumax-Vcry cicer, slcok, ant glossy, trody feathers short, hard, Carriage-Ralhor upricht very

## 13ACK BRFASTFD RED GA3E.

Mral-Vers rich, dark mul
Comb, Fuce, and Jaics-Tices lurighl m
Eyet-lurach, clar, deep ing.
Sirk Harkis-Mchi roit, free fram link or inth mitics.
Back, Shoudder, oni Shoubler Corerts-Mich datk se:
Fing Bulls-niack
 ulde bar acress the wine perfectis cicn, will dedoct end not Irregular on tho edices.
primaries-liay on the outside woly, black on the finsule
 black on the insige wels, whin a rich metallie wreet olack epot on the end uf tue feasber.

## Souldile-Iich ral

Tail-Rich black
Gickie Prothers and Tail Coverts-Very tall motallac arcrublach
 from nay admisiuro of red or other color. ferred in the order in which they are named. color or nev.

## Hirad-Drown

Comb, Face, Ieaf enr athl Watles. Vierv bright ret.

hart and Showider rorerig-mithwn
Hing, Bow. Shoulder and (rorerts-same color as lach, perfectr free fromi reti.
" Irimartes and Scomlaries-Drown
Tat-Dark bruwn, ajprumitung black.
Thetr-ashighs
Legs $\rightarrow$ To match thoe of the reck
IELLOT ANO SILERR IUCK WING GABIE. cown or corn
Heat-Straw colored yellow. Silrery white in Sileer. Comb, Fact and Jaust-Braht rel.
Fieck Hackle-Glear, straw color, froe from black. Clcar nlute in Silner.
Back, Shoulder Corerts, nill How of the Hing-Mish, uniform


## Fing Buth-Black

 forming an whe liar across the wing
Prima-ies-Strak whito on the outetao web, dark on the fovide wela
"S Scondaries-Wblte on the outside neb, black on the Inside and on, the end of the fathers.
saldientlear kitaw color Clear nhito in Suter
Hreast, Enderpart of Body, and Thighs-Mich black.
Sickle Feathers, and Taia Conerts-Rich metallie green black Legs- Welow tall coverastiguly cdich with whioin Silve Legs- Willow, yellow, or ollre. Or bromze or blue in Surer. colok of uex.
ifead-fireg. Silletry in Suler.
Comb, Face, Deafear and Wcites-Brogbt res.
Noch-White, strjped with black silvery in silter.
Breash-Salmon red, ehadiog or so ashy gref toranis the thigbs. Back and Shoulder Coreris Bry in Silsh or that:s gres, thaft of feation
back and shouder Silrecty io Suter.
Wing, Shoutder ant Bow-shatcy or blyth gres, elhaf of feathe white Rol or browz on the Nimg very oljectionabl Wing Corerts, and Might-Slascy or brish gres.
Tail-Daris grey, the fueide approachlugblach.
Shigh-asty gres.
Legs-To mateh tripe of tbe cock.

```
ronsts \(\operatorname{si}\) gaxe
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DIEQCALIDHCATIOSS
Color of iegs or plomege, not matchicg in the jen ronked ancies or breasts, adult cocie Dos aubbe

## DOREINGS

## GENELAL Start-COCh.

Beat-Rather ghort and stout.
Comb-Eilher singlo or rose, If single, erect, stmight, serrated, free from eldo Eprigs; If rose-combed squaro in frobt. argo matk bebind, tuctining very sllighels upueards

## Hecal-Sinat.

Wathes-Broad, stout, rounded on the lower edge.
Tick-Tory taper und rell hackicil.
Breast-Very dcep, broad, and full. Breast-lomn lone
Body-Largo, dcep compact and plemp iho
Body-Largo, deep, compact and plump, tho back, bells, treast
Dack-Ycry brond
Frstgs-larse.
Tail-Very large, expanded, fathres broan and carried well up Sicher Feafhirs $9 n i s$ Tail Coterts-lang, limosu, sismit anit well archod.
Shart. 510
Thighs-Short, stous, and etralght
Legs-Straight, chort, stout, clean, and perfiertle frem frmm frathero
Fech-Five iocd thoo: ire or gupar distioctly separated frem atsubety separate, frcm tho others, and powting up
Carricos ard Appeararce-Fioble. bulkv. and arand

## GENERAL AHATE-HEX

## Bak-Ralber thort

Comb-If sinkle, 10 bo well derelopod, and falling orer ono sifo o the face; if rose, squaro in froots straight on the beal Falles-I3rasi, rolladet
real- -icat
Mral-Sicat.
Breast-Vers deep, bsand, and full.
hody-Iarge, compact, jhunty, nut deep
Bacd-Broal.
rings-latsc.
Tait-larer, expmadert, the fealhers broail
Thighs Elintt anil ktont
zegs-niburt, etraght, stuck ant firbng.
frmm tho others and inclintog upiwards
and dppearance-Buhy:

culor or cuck.
Hend and licet Hachle-Cloar white
Comb, race and Walles-I Webt ral.

Sathle - Llear white.
"ing Dotertsilicry ulite
whag.
drimaries- Whito on tho nutalie catar ar the auter wetb

- black on the instut webs.
indaide wat icar white on the ontente wel, black on the Inside web, adil also on the cond of the feither
Tab-Rich Wack.

Tall Corerts-nich inctallic green black, tha tescer omos silerme



## colon or miv.

Heat-silsers or astiy arey
G vinl, Fuce and Wathes-iltrght rell.
Tri-silerry white serignt with blark
jerrast-ughon met, shating of to groy torards the thighs
had alst lurs or matks neruss ithe fentliers ehaft of feation whice.
Wing Bow-Silvery or shatey krey, glafe of feulhers white. duy Corrts and Flights-Slatey groy wings is highls objectionable Cowrts and Flights-Slatey groy.
Thil-Dark croy, inslide apprasking black.
Thighs-Ashy grey.
Legs-While, with
b-White, with a flesh colored ango betwixt the scales.


pisecalumcitions
Birds without tho anth toc, or with crookel backs, wit taile, combs not unlform in the peo, whito in cock's breast or tall, leas of any color cxccpt nilie. .0

## WHIT: DOnkligs.

Cumb, Fact, ami ts athes-Buch red.
The wionle of the plumazo in boll, cock and hen paro wint o, tho more free from yellow tlage the better.
Legs-Mhite.


DERCALIFTCATONS.
Binds nithont tho fitth toe, or with crooken backs or $\pi r$ tasils combs nut unifurm us tho jen, colored fathers in any part of tho plumage.

## clut guiary.

## Purity of Italian Queens.

Ir appears from a fureign paper that Mr. John Lowe, of Elinburgh, with a vier to test the Daterzon Theory, set to work to obtain hybrids between Apis Mellifica and Apis Fusciah, and also between Apis Mellifica and Apis Ligustica, and the result of his experiments, which we give in his own words, tras, "That Ligurian queen bees fertilized by English drones, and Egyptian queen bees fertilized by English drones, both produced drones which, as well as the workers, were hybrid in their characters, and bore unmistakeablo evidence of the male parent." From this Mr. Lowe drew the conclusion, "that the eggs of a queen bee which have licen fertilized by a drone of another race, whether they develop into drones or workers, are in some way affected by the act of fecundation, and that both seres of the progeny partako of the paternal and maternel character of theldarent or race, from which it follows that Dzier-
zon's is not the true theory of reproduction in the honeg-bee." Now, while wo fully endorse the conclusion arrived at by Mr. Lowe, " that drones are in some tray affected ly the net of fecundation," get we cannot say with him, "that the Dzierzon theory is not the true theurs of reprodaction in the honesbee." We fail to see that the Dzierzon theory is materially cripplel by the fact of the drones being in some teay affected by the act of fecundation. The pith of tho Dzierzon theury is, that all eggs in the ovaries of the queen bee are unimpregnated; that the egbd which produce wurkers are impregnated when passing through the usiduct by coming in contact with a sperm reservoir and receiving a minute portion of its contents, while the eggs that produce drones pass the enerm reservir without coming in contact with it, and lence are not impregnated. This may bo true, and still it may bo a fact that drone egga are in " some way "affected by the act of fecundation; lut the deduction generally drawn from the Dyicrzon theors, that drones are therefore pure, cannot bo strictly true if a queen las mated with a drone of noother race. Neither is Mr. Lowe correct in saying that such drones are hybrid in their characcers. The truth lies between the two extremes. Mr. Lowe bas simply discovered what others had discovered before him, riz. that drones are in some zay affected by the act of fecundation. He does not attempt, howerer, to explain that " some way," but jumps at the conclusion that they are hybrids. We will, therefore, for the benefit of tise honest breeder of the Italian queens, explain how drones aro affected by the act of ferundation. The truth is, that the whole system of the gneen bee is affected or changed by the act of coition. In other rords, the life-giring principle received from the arone, into the sperm rescroir of the queen bee, is also, by absorption and circulation, carrica through the whole system, and becomes a part of her very nature, and hence is transmitted to her progeng. It will then at once be seen, that if a pure Italian queen cohabit with a black drone, her eggs, which are a part of herself, will partake to a certain extent of the mature of the drone. Therefore, her drone progeny, although not bybrids, wal shuw unmistahable evidence of the inftaence of the male parent. Not only so, but the eggs of a queen bee are affected by the impregnation lhat produced herself. In other words, the impreguation of an erg does not end with the production of a quicen bee, but through ker system is transmitted to her eggs in a sunicient degree to cause them to produce drones. In this way wo can, withont difficulty, account for the praituction of drones from the eggs of an unimpregnated queen. If breeders of talian queens will accept and acknowledge the abore truths, there is an end to all discussion as to the purity or non-purity of the "threo banded," "tiro-banded," and "one banded" bees. For it must bo clearly seen that if quecns continue to mate or colahit with drones produced from the -grgs of a queen that lias mated witha common drone, their progenies, though not bybrids, will show the influence of the black race by the number of bandssome of the bees losing one, and perhaps tro bands. Hybrid bees, howerer, not only loose one and teco, but even thres bands, appearing as black as the native beo, showing the Italian blood, howerer, in the shape of the abdomen, which is more pointed than that of tho black bee. In order, then, to improve the purity (if we may bo allored the expression) of our ptalian bees, it is only necessary for breeders of Italian queens to destroy all drones produced by what wo call hybrid quecens, or queens that hare mated with common drones. This every honest breeder will endeavour to do when purity of race alone is desired.

Bees Shoud not Trater Far-Bees that havo to travel a long distance, store but littlo honey. Hives should bo ao constructed that the bees can deposit their honey quickly, as time is money with them. I lined a swarm troo gears ago, in a large while ash trec. I cut the tree this winter, expecting, as tho swarm was large, to find plenty of honey stored; but imagine my surprise:- I found bees and comb, but the honey was minus. They wero located in a good honey section, but those bees had to travel 14 feet from the entrance to tho comb to deposit their stores. It is my experience and belief that the sooner tho deposit is made, as the honey season is short, tho more bencft is derived.-Cor. Co. Gent.

## Eutourdorgy.

## The Olothes-MOth

The following account of this well-known plague of the careful lousewife is condensed from an interesting article by Dr. Packard, in the October number of the American Naturalist, a periodical that we can most cordially recommend to our readers :-
"For over a fortaight we oace enjoyed the company of the caterpillar of a common Clothes-moth. It is a little, pale, delicate worm, about tho size of a darning needle, not helf an inch long, with sixteen feet, the first six of them well dereloped, and constantly in use to drave the slender body in and out os its case. Its head is armed with a formidable pair c jaws, with which, like a scythe, it mows its may through thick and thin.
But the caso is the most remarkable feature in the Lisiury of this caterpillar. Hardy has the helpless, ting worm broken the egg, previously laid in some old garment of fur, or wool, or perbaps in the haircloth of a sofa, when it proceeds to make a shelter by, cutting the woolly abres or soft hairs up into bits, which it placesat cach end in successive layers, and, joining them together by silken threads, constructs a cylindrical tube of thick, rarm felt, lined within with the finest silk tho ting worm can spin. The case before ns is of a stone-gray colour, with a black stripe along the middle and with rings of the same colour round each opening at the erds. Had the caterpillar fed on blue or yellow cloth, the case would, of course, have been of those colors.
Days go lys. $\Lambda$ vigorous course of dictiog on its feast of wool has given stature to our hero. His case has grown uncomfortably small. Shall he leave it and make another? No housewife is more prudent and saring. Out come those scissor-jaws, and lo a fearfill reat along each side of one end of the case. Two wedge-shaped patches mend the breach, caterpillar retires for a moment; reappears at the other end; scissors once more pulled out; two rents to be filled up by two more patches or gores, and our caterpillas once more breathes freer, laughs and grows fat upon horse-hair and lamb's rool. In this way he enlarges his case till he stops growing.

Our caterpillar seeming to bo full-grown, and hence out of emplosment, we cat the end of his case half off. Tiro or three days after, he had mended it from the inside, drawing the troo edges together bs siken threads, and though he had not touched the outside, Jet so neatly were tho two parts joined together, that we had to search for some tine with a lens to thd the scar.
To keepour friend busy during the cold, cheerless weather, for it was in mid-winter, we next cut a third of the case of entirely. Nothing daunted, tho little fellow bustled about, drew in a mass of the aroolly fibres, filling up the whole month of his den, and began to build on afresh, and from the inside, so that the new-made portion was smaller than the rest of the case. The creature worked very slowls, and the addition ras left in a rough, unfinished state.

We could casily spare these voracious little worms hairs enough to serve as food, and to afford material for tho construction of their paltry cases; but that restless spirit that ever urges on all beings endowed with life and the power of motion, never forsakes the young Cluthes-moth for a moment. He will not be forced to drag his heavy case over rough hairs and fuzzy wool, hence, ho cuts his way through with those keen jaws; thus, tho more ho travels tho more mischief ho does.
After taking his fill of this sort of life he changes to a pupa, and soon appears as one of those delicate, tiny, but richly variegated moths that fly in such numbers from early sprive until the fall. Very many do not recognize theso moths in their perfect stage, so small are they, and vent their wrath on
those great millers that fly around lamps in warm summer evenings. It need ecarcely be said that these large millers aro utterly guiltless of any attempts on our wardrobes; they expend their attacks in a more open form on our gardeas and orchärds. Tho Clotbes-moths begin to Ay ia May, and last all through the season, fluttering with a noiselecy, stealthy flight in our apartmente, and laying thois egge in our woollens.

## Strawberry Worms.

We haro lately receired from Mr. Cbarles Arnold, the well-known horticulturist of Paris, Ontario, somo specimens of strawberry plants, which aro considerably affected by two small rorms or grubs. Ho writes as follows:-" I now send youl a portion of a strawberry plant containing at least one species of insect that is injuring the plants in this neighbourhood. In dissecting the root, gou may find several little worms, tro of the more mature ones haring alreaty mate their escape. As they approach maturitg, they become red in coluar, and are sery quick in motion."
On examaning the plants sent, we fuund tro rery diferent kinds of rorms ; one is white, with six lnces, ant is the larga of a beetle; the other is reldish, with siricen legs, and is the larra of a moth. The former is slow and inactive in its movernents, while the latter is very actire, and makes good use of its ten additional legs. It is very dificult, indeed, to determine with any degree of certainty the name of the geaus and species of an insect merely from an examination of a minuts larca, unless one happens to be well acquainted with the kind in question; to make a determination without some such special acquaintance with the particular specimen, is out of the porser of most entomologists. We shall not, 'ben, presume to aflix a name to the tro tiny worms before us, but shall be content to wait till they become developed into their perfect forms, provided we aro so fortunate as to succeed in rearing them.
The larra of the peetle-it may be of the small black beetle sent us by Mr. Arnold some months ago, and which was described as infesting strawberry plants, (Casada Farmer, Aug. 1, 1867, p. 238)-is about one-fitth of an inch long, and a third as broad; the borly is white, and very much wrinkled; the hearl is amber coloxr, with darker mouth and jaws; the three pair of feet are claw-shaped, slender, and almost transparent, the tips of the two front pairs being black. It had burrowed into the flesby root of the strawberry plant to a considerable extent, and sould no donbt ultimately kill it. Cintil something further is known about its cconomy and habits, it is almost impossible to suggest a remedy, except that of pulling up at burning any plants that are found to be affected by it.
The larva of the moth is nearls a quarter of an inch long, and much more slender than that of the beetle; the whole of the body is semi-transparent, and with the exception of the head and neck, and final segment, which are discoloured with blackish, of a pale reddish colour; on each segment there are a number of tiny warts arranged like those on the larva of the Fall Web-worm (Ilyphantria textor), and from these proceed some fine scattered hairs; there are cight pairs of legs, arranged in the osual manner, viz., three prehensile pairs near the head, four pairs of pro-legs supporting the middle of the body, and a terminal pair. It is not at all improbable that this caterpillar is a more mature specimen of the one we noticed some time ago (C. F., p. 238) as sent by Mr. Arnold, but from which we hare reared nothing as yet Caterpillars frequently chango wonderfully at their last moulting ; for instance, the false-caterpillar of the Goosebery Saw-fy is at first covered all over with shining black tubercles and short hair, which give it a peculiarly speckled appearance, but at its last moult it comes out smooth and pale green, oxcept at either end, whero it is bright yellow-as different as possible from its former aspect.
Mr. Arnold appears unfortunate in the peculiar foes of his stramberry plants; besides those he complains of, there are others also that írequently commit great bitvoc among the beds of this delicious fruit. The well-known fat white grub of the common cockchafer frequently destroys the roots of whole beds; at other times the rootsare attacked by a "Thousand legged worm," (Polydesmus) which, by the way, can be destroyed with hot water; and the larra of a Sawfly (Emphytus nuculatus) derour the leaves in some parts of the Western States. And then, when the fruit becomes ripe, snails, and slugs, and toads, and birds, come and eat their share-often moro than their share-and tho poor gardener, amongst them all, has hard work to secure a oroder return for hir time and toil.


Patent Mothod of Preserving Meat.

## Toth Eliker of The Casam Farmer:

Str.-I Isen io an evtrapt taken from the Mfedical Thues. Landon, Ingland I inserted in sour impresdim of the lutb suptrmber ho mention is therein made of Mresr* Vombock and bailey'q patent process for the preservation of muat usiog the Bisulpbite of hame as tbe basis
I bies to infiran gout that I am the patentee for that itemical prowes in the Dominion of Canada, and it was from apurimente male lig them on meas. turkeyw. geese, and chirkens, sent by me from Toronin in the fall of 1-i, and fin together with informatimu farnisbed by me to Mesers Medloch \& Bailey of the orocere 1 alopped. What those gentlemen were indued in areure lingal Lertare liatent in England for the same.
There olservationa mang art as a caution, and prewent why person (through ignoraner) from infringing un my patent rights, now held jointly between ms, son. John Martin Collett, and ingself I send you an analytieal report from Wintworth Lascelles Scott, which you are at liberts to publish if yon think proper.

MLHTIN COLLETT.
468 Yonge St.,Toronto.
Oct. 4 th, 156 g .
Nuth me. C. F.- We hat the opportunity some ame sance of examining a joint of meat that bad been subjected to Mr. Collett's process, and were farorably impresed in regard to the eflicacy and fersibility When we inserted the extract referred to by our correspondent. we suspected that the process there mentioned and commended was identical with that of Mr. Collet. We have great pleasure in publishing the folloring favorable testimong in reference to its anerits. from the aualgtical report of W. L. Scott. Esq., unon thes new preserving process. of which Messs. Modlock © Bual- $\mathbf{y}$ are the patentees in England, and Mr. Collett tur Canala. It is unnceessary to add that Mr. -eoth stands high in his profession, and is thoronghly cmalificd to pronousce an opinion on the - mbject. Ile thas certifies:-

- I have carefully examined the standard solution of lisalphite of Calcium (known commercially as " Bisulphite of line $"$, prepared under Messrs. Medlock anil bitery- latent. and I find the same to be $n$ limpid duid of the sprecifir gravity of 1.050 at $60^{\circ} \mathrm{F}$. po-eessing verv remarkable antiseptic properties
The lifulphute of Lime solution", has been re-
 kinn wa...gri.f ihe patentees. but the results bave always shorn the cufire alsetire of all foreign salls, organic matter. or other deleterious substances.
Unline the generiaty of commercial antiseptics. the Disidplific of Lime as emploged in Meldock and mailoy $\&$ and rolliti's Patent Process, communicates no unpleasant taste or appearance to meat, \&e., impregnated therewith, and can therefore be safely used for the preservation of all kinds of animal food, hasedur derlicate this struclure ur flarour may be, white substances so treated, allbough they remain fresh and sweet for an almost indefinite period, retain their origina! wholesomeness and nutritive powers unimpairel.
I have experimented very largely with the ne preservative. which 1 find will instantly arrest the " putrefactice,"" acclic," and other fermentations, it being absolutely fatal to all the lower forms of organic life; whether of animal or vegetable origin, and I have much pleasure in certifying it to be the simplest, safest, and most effective means for the "preservatuon of anmal substances" that has yet been brought before the public: this patent being of decided utility to the weallticicr classes, and a positive boon to the people at large, may, and possibly at no very uistant day, be the means of adding considerably to the food supplies of this commtry.

Very $n u m e r o u s$ specimens of flesh, fish, and fowl, prosprusi) hy thit procias (in Great Britain, Canada, and elsewnere) lave bren subjected by me to rigid chemical and microscopical scratiny. with unvarying chemical and microscopical scrutioy. Fith
results of a highly eavisfactory character.

I consider Messrs. Medlock and llailey's and ColInt's patra' process to be capable of a hundred useful applicationa in the preparation and preservation of food.
(Signed)
WENTWORTU L. SCOTT
Cheminal and Ificroscopical Analyst: Mrmher and
Medall'st of the hocicty of dits; jimhor of "Fowl. its Aldulterations and the Ifftherls of Detecting them, de.. ace"

Winen مape - i"Subsriber" writing from Ituron armels the following enquiry. which ne publish whthout immorliale commont, in the hipe that some prartical farmer will give the desirell informatuon.
"ran yon, or some one of your numerons currespoutents. inform me throuch the columns of the Casada Farmer, so that other propir may benefit thereby as well as myself. which is the most effectunl method of destroying wild oats: Is many farms in this ricinity arr infeatel with them, any information on this subject would be thankfully received."

Savis. Guest. Ira Fulforal, of Teesmater, Co. bruer, writed ns follows I have a five gear old hore tronbled with nasal gleet, wr what I tak. to be such from a description of that disease given in Titr: Cavaba Fanmar of June 1st, 1 s6t. I wish to enguire through your jourmit if there is a veterimary surgecy within finy mites of this place, ur eren one hundred, that I could apply to " I alsú nish to ask if this discase is contagious. and it it is angthing like glanders: My hores is in fine contition, eats well, and has no appearance of dispase. except an uecasional discharge from the nose und a wight cough."

Notre nr Ed. C. F.-Mr. W'm. Ellioth, a graluate of the Toronto Veterinary School, is located in Elom. and practising his profession in that neighbourhood: and Mr . John Cuates, another graduate, resides in Stratford. Nasal gleet is not a contagious disease. and the mucous membrane of the nose does not present the uleerative patches characteristic of glanilers. Whe have already desoribed the symptoms of nasal glect in a precious nurnber.

## (Une cfanada diarute

TORONTO, CANADA, OCT. 1.5. 1867.

## New York State Fair.

A New York State Fair, beld at Buffaio, is very like a Canadian Provincial Exhbition held at London or Kingston. The point is an extreme, and to many. therefore, an inconrenient one; but, as with us, local reasons and influences appear to demand tat the Annual Show ebould be held at other places besides those which are central. IIence the present year Buffalo became the place of rendezvous. A tract of land. of about seventy acres, known as the Cold Spring Troting Course, and suluated on Erie Sirect, about two and a half miles from the liberty Pole. was chosen for the Fair ground, and on it temporary buildings were put up, there being none on the spot that could be turned to accomnt. Seren exhibition halls were b:ilt, and so located as to form an are of a circle. These were beverally designated "Mechanics' Hall," "Dairy Hall," "Stove Hall," "Vegetable Hall," "Floral IIall," "Domestic Mall," and "Carriage IIall." Besides these "Jalls" dev.ted to Exhibition purposes, there was a " Inall' put to a very different use, "Dining Hall," a society instutution. where the officers, guests, judges and employees were supplied with refreshments. A similar building adjoined this, and was appropriated to the supply of the general public. Horse stalls to the number of 250, cattle stalls of a like number, ali arranged for giving a side view of the animals; 150 sheep pens, 100 hog pens, and a poultry shed 16 by 150 feet, furnighed accommodation for the live stock; while a large feed barn, located near the borse and cattlo ftalls, buld a-store of provender. The entries were
rs follama. ratlie jin; horsea, 11t, sbecp, swino and priviry 364 , implements and machinery, 420 ; grain. sceds and lairy, 215 ; domestic mannfaclures and necdlewark, 229 ; miscellancous, $n$ large cliss. embraring naintiugs, imaings, photograplis, cilver warn, culiery, storrs, harness, cabinet ware, uphols. tery, cerringes, lats nod furs, safes, setring machince, arms. musical instruments, nnu, in short, any articles not enumerated in the premium lists, $\mathbf{3} 26$, frults and flowira 122 The total number of entries was 2,340 -not very mirli more than one half the number enterel at nur recent l'rovitucial Exdibition at King. aton and acarcoly more than one-third the number of entries at our last Provincial show at Toronto. Taking the rarious classes in their order, as enumerated nbove we pay our respects first to tho cattle. Not much need be said about them, for rith so limited a representation as the entry list shows, no great array conld be expected of any one breed. The dlderneys mistered best; and of these there were a number of very fine nnimals, chiefly from the herd of Mr. W. B. Dinsmore, of Staaisburg, Dutchess county, who is. next to Dir. John Giles, perhaps the most noted Alderney brecler in the L'nited States. The IIereforls were also a conepicuous feature in the cattle lepartment. Mr Erastus Corning, Jr.. ot Albany, is the owner of a fine herd of Yerefords, and hat sereral specimena on the ground. Mr. F. W. Stone, of Guelph. was there also, with seven picked animals from his herd of Hercfords. Mr. Corning's are larger in frame than Mr. Stone's, but not so neat, fine and compact. If the tro herds could be shaken together it would not be amiss, for both comprise really fine samples of this valuable fumily. A few good Ayrshires were shown; among them an importel bull owned by Mr. James Bradie, Kural lill. The Short-llorns did nat by any means occupy a position in harmony with their importance and ranl: among cattle. Mr. Ezra Cornell, of Ithaca, had seren epecimens. a bull and sia females of rarions ages. The other exhibitors in this class were J. \& S. Kinsles, of Darien ; John D. Wing, of Maple Sbade; Walter Cole, of Batavia; A. I. Conger, of Waldterg, and F. W. Stone, of Guelph. Several of these gentlemen only shorved a single animal, Mrr. Stor :, for example, had only his prize bull, "Grau- Duke of Moreton." The IIon. D. Christic was oxpected Fith a full array of Short-Horns from his noted berd, but for some reason or other, both be and they failed to put in an appearance. As at the Michigan State Fair this year, so at the New York Show, a single Galloway bull represented that peculiar and valu.ble bread. and awakened nuch curiosity. The owner of lis Sew York Gallowayship is Mr. Ecri Gillet, of Niagara rmunty Of the Devons, grades, working oxen and fat cattle, there were a fer specimens, but among them nothing calling for special meation. In class number tiro, the best display by all odds was that of curriage horses and roadsters. Some very beautiful teams were on the ground; among them, the splendid pair owned by Mr. J. M. Davis, of Richaond Mill. Ontario, and two span all the way from Chicago. There were also some good specimens of general purpose horses-beasts of all rork-a class in the breeding of which our American cousins excel. Some fine stallions and tro or three excellent brood mares were also on the ground. On the whole, however. the horse department of the Exbibition was meagre, if we take into account the tastes and predilections of Americans in this direction. The display of sheep was a very ereditable one, not 80 disproportionate as is usual across the lines, through the preponderance of Merinoes, which were, howerer, very well represented, while tivero was a better sprinkling of long-wooled varictics. Mr. Joln D. Wing, of Maple Shade Farm, Whahington Hullow. Dutrbess Connty, had some very fine Cotswolds on the ground, among them the ram "Golden Flacce." of which an edgraving appeared not long since in the Casada Farser. Messrs. Stone, of Guclph, and Sncll, of Edmonton, maintained the
reputation of Canadian lockmasters by showing a agitated whilo standing over night. Its cost is goodly array of Cotswolds, south Downs, de., and, $\$ 20$ per rat. Grimmon Austin, of Deamark, Lewis by casrying of numerous prizes. The Merinocs wwre, Co., N.Y., is the patentee of this invention. If any divided into two classes, and describel ns " Merinocs, of nur farmers have a desire to ride while ploughing bred for rorm of boily," and Merinoes bred for weiglt of heece, asingular arrangem in surely. l'erlaps, howerer, it was an innocent device for multiplying premiums; in faver of this breed of sheep. so much be-petted by our American neighbours. Among then were shown a lot of silesian Merinocs, seventeen of them imported nnumals, owned by Mr. W. Chamberlain, of hed Hook, Dutchess county, and considerell by him to yield finer wool, and to possess betterform of body than the American herinoespositions that would be stoutly resisted by the Vermont sheep-men. Ore exhibitor snowed the Merino ram • Kilpatrick," and proclaimed, both bs placard and word of mouth, that the had refused $\$ 12,000$ for him! a clear case of lunacyfor either he must lhave imaginel the ofer, or been stark mad not to take it Each recurring Exbibition in the Untted States affords evielence that our nighbours are abandinning the folly of breeding Merinoes exclusively, and are fist finding out tho merits of other brects, alike for wool ged meat. Taking the stock as a vhole, the pigs carried of the palm. There mas a rery fine display of porkers, chiefly of the Yorkshire, Cheshire, and Suffolk varieties. Most of these animals hailed from Jeffer son county, which to allap, pearance must be a paradise for pigs. One Jeffersonian esbibitor had thirty-nine Yorksbires; another, thirty-seven Cheshires; a third, twenty-five Yorkshires; and a fourth, fity specimens of varions breeds. Mr. Dinsmore, of Stanssburg, had some Prisec Albert pigs, which looked like extra fine undersized Suffolks; and one or two parties exbibited very fair Betkshires. The show of swine was hardly marred by a single co..rse or inferior animal. The poultry show was a rery 4 , ior one, and comprised rety fer really good specimens. Among them were two coops of rery nice Brahmas; a fer excellent grey Dorkings, and some only mediocre Spanish fowls. Two or threc Canadian poultry fan. clers were in attendance to buy choico specimens, but found none they could not beat all to pieces in their own gards. Implements and machinery always form the most conf picious feature in American exlibitions, and tho recent New York Fair was no exesption to the rule. Most of the staple articles in this class have been so often described in theso columns, that it is recedless to go over the ground again. It may, however, be mentioned, that mowers and reapers, single and combined, have seldom, if ever, been shown in greater number or of better workmanship. The same is true of some other classes of implements. A few novelties, or articles particularly deserving mention, may be briefly characterizr 1. Among these there mas a nere stgle of hore--p Jwer, so constructed that the team or single horse always trarels on a straight fexible plank inethad of narrow slats or rolls, and thesc planks run on large barrel rollers, giving very great leverage. The pieces of plank are about a foot wide and tro feet long, corrugated or grooved so that the animal cannot slip. The friction rollers are four in number, and eighteen inches in diameter. Judging by the operation of tivo machines on the ground, one a single and the otber a tro horse-power, we formed a very favourable opinion of this machinc. The maker is R. I.. Howard, of Buffalo. Two styles of dumping waggons were on the ground, $\mathfrak{l}$... apparently effective. A waggon of this sort has all the advantages of a cart without its disadrantages, and would prove a great convenience to any farmer. One style is mado by L. M. Osborne, Hamilton, N.Y.; the other by N. Clute, Schencetady, N.Y.; and either can he attached to an ordinary waggon at a comparatively small expense. The first is the cheaper of the tro. "Austin's adilk Agitator" is a contrivance well worthy the attention of dairymen and proprictors of cheese factories. It is intended to keep milk gently
of our furmers have a desire 10 ride while ploughing
and hartowing, thes can be accommodated. John C. Rogers, of Alden, N. Y., exbibited a " sulky plough," which received the uatural, but not very comjlimentary title of the "lazy man's plough," from the bestanders, and 13. Randall, of Alame, N.Y., hat a "riling aitachanent fur harrows." Withont pronouncing approvingly upon either insention, we beg of those who comple frarming as terribly hard work to make n $n$ iboth. To parody a well-known nursery rhyme, hide awny, ritel the farmer shall ride:" No fewer than seren different styles of potato diggers were on the ground, but in the absence of a fichl of potatocs to dig , no opinion conld be formed of their performance. A flexible harrow of peculiar constraction, was shown by Gibson it Inglis, New York Mills, Oneiua eounty. A patent carriage wheel, the spokes consisting of rod iron, rinumed with wood and tired in the usunl may, was exhibited by M. L. Smith, of Bergen, Genessce counts, New York. Cheapness and freedom from the risk of the tire ever comiag off, are tho chief advantages claimed for this wheel. . set costs from $\$ 18$ to \$20 American mones, ready boxed for use. A rertical milk rack and table, forming a very compact and useful piece of furniture for a dairy, was shown by John McConn, of L.ockpot, XiY. Its cost is only \$8, United States currency. I patent adjustable tine hay and ntanure fork atracted much attention. By keeping extra tin s and handes, breakages can be remedied without loss of time, a great adrantage when work presses. The Montgomery Fork Company, 254 Pearl Street, New York, have this implement for sale.
Clas 5 , including grain, sceds. anu dairy, was rery poorly filled. Domestic manufactures and needlework presented an attractive scene, giving proof of the ekill and ingenuity of the fair lingers that bad been busy in this department. Class 7, miscellaneous, the largest of all the departments, contained articles "too numerous to mention," still less to describe; but one lit:le contrivance in th:s class we cannot forbear noticing. It was a "combined carpet stretcher and tack driver," by the uee of which any one can casily strain out and tack dewn a carpet. The tacks are driven by a spring hammer, that does its work at the signal given by pulling a string. Sore fingers and aching backs need no lenger be the penalty of laying down carpes.s. \$4, American currency, remitted to W. A. Case, Buffalo, will secure this admirable and useful tool. Class 8 , fruits and fiomers, though not crojsder, made "Floral Hall" decidedly attractive. Among the fruits, grapes were most conspicuous, and Hammnndsport, N.X., sent a very large proportion of the samples. Without entering into detail, it may be observed that the display of grapes was all that could be desired, proving at onco the adaptation of this climate to the vine, and the great interest which is being taken in grapo culture.
The usual evecing discussions were held during the Fair:
Tespdar Evestaca, Oct. 1.- Has not the culture of the apple occupied as much of our State as is prostable?
Wednesday Evesina, Oct. 2.-Cookiry and cutting food for stock-its importance.
Therspar Ereniso, Oct. 3.-Soiling cattlo-is it proftable?
Of these discussions it must suffice for the present to say that they were for the most part animet.n and instructive, and that they formed a very valiable part of the proceedings of the exhibition.

## Crop Reports.

We publish in the present number the hervest returns from those portions of the country north and west of Toronts through which the Grand Trunk failway passes. This report would have been given in the previous number of this journal had space per-
mitted, but so largo a portion of ite columns mas occupied with matters relating to tho Provinctal Exhlbition tint it was found necessary to defer the crop returns till the present issuc. Now that they are before the public, their fa-orable character xill per haps excite some surprise in the minds of those especially who are apt to look on the dark side of things, and who have been prognosticating unfavorably from the long-continued drought by which so large a portion of the country has been affectel.
It is to be presumed that the report gires a fair account of the harvest gied in the varions sections of country referrel to; and summing up all the returns, the following coneiusions will be drawn :-The hay crop has been almost universally a bountiful gield; the root crop in the majorits of instances a failure, though by no means to the extent that might havo been expected; the cereals hare been on the whole abundant, with the exception of Fall wheat, which in a considerable, but by no meansexcessive number of instances, has been very light; Spring wheat tas been an average gield; the same may be said of barley; wbile peas anil onts especially have, in a majority of places, been over the average. Ryo seems to have been but litte sown, but where included among the firm crops appears to have tarned out well. Only a limited breadth of flax has been sorn, and the reports are of a mixel character, the yiehl having been in some places belore and in others above last year's. Hops, in the few instances mentioned, have mostly yielded well.
If we may take the foregoing as a sample of the harvest throughout the country, there is indeed abundant cause for congratulation and thankfulness, and with the prospect of at least good prices, farmers will in most cases realize a fuir return for their labors.

The following tabular riew of the Grand Trunk returns will show at a glance the relative productive. ness of the principal crops during the past year. The number of places in the list amounts to forty-six, and it 9 of coluse represent others nut specifed. In these forty-six returns we find the variois crops reported hs follorss:-

| Crope | Below average | Arcrage. | Abore arctagt. |
| :---: | :---: | :---: | :---: |
| Fall wheat | ....... 13 | 21 | 12 |
| Spring uli | . ... 15 | 21 | 10 |
| Bardoy.... | ........ 9 | 25. | 12 |
| Oats. | ....... 8 | 18 | 90 |
| Pca8. | . .. . 0 | 18 | 13 |
| Roots... | ..... . 86 | 18 | 2 |
| Hay.. | . ... 1 | 6 | 40 |

These statistics are exiremely reluable, and not only furnish the best means of ascertaining the amoun' it crops raised but will point also, in many cases, to the sources of duccess or failure, and will therefore often indicate the true policy for the future. It is greatly to be degired that such reports were multiplied, and our Agricultaral Societies would be turning their opportunities to useful account by col lecting and publishing correct information in regard to the crops in their various localities. Isolated reports are comparatively of little account ; hut multiplied and extended over a large section of country they become of very great ralue.

## Michael Faraday.

CaEncal science has become the chief bay 1 -muia of modern agricalture, almost every step in whose L.ogress, of late years, has been connected directly or indirectly with the discoverics or applications of chemistry. The agriculturist bas, therefore, a moro than ordinary concera in any important event in the history of the sister scieuce, and will regard every eminent chemist as a fellow-labourer in whose carcer ho has a special interest. For years no name has been more prominent or more honoured in the annals of chemical philosophy than that of Michael Faraday, one of the most indefatigable, patient and clearsighted inquirers after truth, endowed with a rare faculty of imparting to others the results of his own investigations and acquirements, and withal one of the most modest and amiable of men. This great and
good man has finished a laborious life, leaving the whole civilized world to deplore his loss and revere his memory. By his own countrymen especially, who have ever been foremost to appreciate genuine worth, the tidings of his death will be received with profound regret.
We have not space for any lengthened accoun $t$ of his life, or record of his discoveries, which were neither few nor unimportant. The following brief notice of his career is taken from the Mark Lane Express, and will serve to give some idea of his success and of the high estimation in which he was held both in his own country and on the continent of Europe :-
"The death of Professor Faraday took place on Sunday, August 25th, near Hampton Court. Michael Faraday was born in 1791, in the Parish of Newington, Surrey, and like many others who have illustrated the page of British history, was entirely a selfmade man. His father was a smith, and he himself, after a very imperfect education, was apprenticed to a bookbinder named Riebau, in Blandford-street. He obtained admission to the chemical lectures which Sir Humpbrey Davy was delivering at the Royal Institution in 1812, and not only attended the lectures, but took copious notes of them, which he re-wrote and sent to Sir Humphrey, begging his assistance in his desire 'to escape from trade and to enter into the service of science.' Sir Humphrey warmly praised the powers shown in the notes of his lectures, and hoped he might be able to meet the writer's wishes. Early in 1813 the opportunity came. The post of assistant in the laboratory in Albemarlestreet became vacant, and Sir Humphrey offered it to Faraday, who accepted it with a pleasure which can easily be imagined, and thus commenced, in March 1813, the connexion between Faraday and the Royal Institution, which only terminated with his life. The chair of chemistry was founded at the Royal Institution in 1833, and Faraday was appointed the tirst professor. In 1835 he was recommended by Lord Melbourne for a pension of $£ 300$ a year, in recognition of his great distinction as a discoverer. Oxford conferred upon him an honorary degree upon the first occasion of the meeting of the British Association at the university. He was raised from the position of corresponding member to be one of the eight foreign associates of the Academy of Sciences. He was an officer of the Legion of Honour, and Prussia and Italy decorated him with the crosses of different orders. The Royal Society conferred on him its own medal and the Romford medal. In 1858, the Queen allotted to him a residence at Hampton Court, between which and Albemarle-street he spent the last years of his life, and where he died."

## Valuable Importation.

We have great pleasure in learning that the Short Horn bull, "Knight of St. George," purchased by the Hon. D. Christie, from his breeder, Mr. Carr, of Stackhouse, Yorkshire, England, arrived safely at his new home on Monday, 30th September, having come by the steamship Peruvian.
"Knight of St. George" is about'six months old. Fis colour is red and a little white; he is a fine, large and symmetrical young animgl. He is a pure Booth bull-we believe the only one now in America. His contour is exactly that of his illustrious grandsire-Mr. Richard Booth's "Windsor." He was got by "Prince of the Realm" (22627), dam Windsor's Queen, by Windsor (14013), and cost in England 200 guineas. We subjoin his pedigree :-
" Knight of St. George," got by Prince of the Realm (22627) Carr.

Dam Windsor's Queen (Carr) by Windsor (14013) (Booth.)
Dam Wide Awake (Booth) by Royal Buck (10750) (Booth.)

Dam Bonnet (Booth) ly Backingham (3239)
Booth.) (Booth.)

Dam Bliss (Booth) by Leonard (4210) (Booth.)
Dam Young Broughton (Booth) by Young Matchem (2282) (Booth.)

Dam Broughton (Booth) by Jerry (4097) (Booth.)
Dam —— (Booth) by Young Pilot (497) (Booth.)
Dam —— (Booth) by Pilot (496) (R. Colling.)
Dam —— (Booth) by Son of Apollo (36) (Booth.).
His dam, Windsor's Queen, is one of the finest cows in England. Mr. Carr refused for her when a month old 250 guineas, and subsequently 600 guineas. She is a large, symmetrical and substantial cow, and inherits largely the valuable qualities of her sire. She belongs to the "Bliss" tribe of Short Horns at Warlaby. As an illustration of the value of this tribe, we quote from Bell's Weekly Messenger of Oct., 1865: "For Lady of the Valley, when a yearling, Mr. Carr declined an offer of 400 guineas; a similar sum of money for Wide Awake when nine years old; and 250 guineas for Windsor's Queen, Wide Awake's daughter, when a monthling: no less than 1050 guineas daughter, when a monthling: no less than 1050 guineas
for three animals. These we know were bona fide offers. "Windsor (14013), the grandsire of Knight of St. George, was a grand bull-the best of his day in Great Britain. He was ten times exbibited, and took nine first prizes and one second. At the Yorkshire at Sheffield, in 1852, first as a bull calf. At the Royal English at Gloucester, first as a yearling, in 1853; same year at Yorkshire, first; also at the North Lancashire, silver medal as best male animal and silver cup offered by Col. Towneley. In 1854 first prize at Royal Irish at Armagh; and first prize at the Bighland Society'sShowatBerwick-on-Tweed. In 1855 the firstat the Royal English Show at Carlisle; and first at the Yorkshire at Malton. After the Royal Agricultural meeting at Carlisle, Mr. Booth refused an offer of 1,000 guineas for him from an Australian breeder, who subsequently raised his bid to 1,100 guineas. He was justly styled the Comet of modern times."
We sincerely hope that "Knight of St. George may realize the expectations formed of him, and that he may be a source of profit to his owner as well as benefit to the country. Our readers may expect an engraving of him at some fature day.

## Reports of the Harvest of 1867 in the

 Different Sections of Country through which the Grand Trunk Railway passes,
## BUFFALO AND GODERICH DISTRICT.

Goderice.-The area of country contributing to the grain business of Goderich does not extend beyond six or eight miles to the south or south-east, the country beyond being tapped by Clinton and Seaforth, and will be embraced in the report from those stations.
In the area referred to the chief cereals grown are Spring and Fall wheat, of which there has been an abundant yield-the former giving an average of twenty bushels, and the latter of twenty-five bushels per acre. There have also been some oats and barley put down, but not to any extent in this vicinity; while comparatively no root crops have been attempted, excepting for home and farm purposes.
The weather has been all that could be desired, and there is no doubt of the entire crop being harvested in good condition.
Clinton.-The crops in this section of the country are excellent, and more than an average yield. Fall wheat of a superior quality averages from thirty to thirty-five bushels to the acre ; Spring wheat from eighteen to twenty bushels, and of good quality; oats, good quality, averages thirty-five to forty bushels per acre; barley, peas and other coarse grains are of good quality, and more than average yield.
The root crop is doing well, and will be fully an average crop, but no more. Little or no flax grown
in this section. The wection.
The weather has been very favourable for securing the grain, and at the present time nearly all the grain is harvested. The crops will give a large
yield and better samples this year than for many yield and better samples this year than for many years previous.
Seaforti.-The weather has been exceedingly fayourable for harvesting, and the crops, as a general thing, have been secured, with but little, if any damage from insects or other causes.
Spring and Fall wheat Jifld twenty bushels per acre; quality good. Peas yield twenty-five bushels per acre; quality good. Barley yields thirty bushels per acre; quality good. Potatoes and other root crops are an average yield, and quality good. Flax: none grown in this vicinity.
Carronbrooke.-There is a larger breadth of land under crop in this than in any previous season. Fall wheat, of which there is but little raised, was somervhat damaged by the spring frosts, and will not
yield as abundantly as expected. The average per acre will not exceed eighteen bushels. Spring wheat will turn out rather better than it did last year, and will probably average fifteen bushels per acre. Oats are good. Peas are also good. Barley not mach attended to, but where sown has done well. Root crops will be a fair average. Hay above an avercrops
age.
Mr
Mrrchell.-The crops in the vicinity of this station are good, although the early part of tho scason was rather dry. Fall wheat will average from twenty to twenty-five bushels to the acre. Spring wheat rather more. The yield of peas and oats are vory good indeed, at least forty or fifty bushels per acre. Root crops are not quite as good as nsual. Corn is not cultivated to any extent. Flax promises well, but is not caltivated much.
Tavistocs.-The crops in the vicinity of this station are very good indeed. The averages are as follows :-White wheat, from fifteen to twenty bushels per acre; Spring wheat, from twenty to twenty-five do; barley, from twenty-five to thirty do; peas, from twenty-five to thirty do; oals, an extra crop, from thirty to thirty-five do.
The root crops are not so good as last year, owing to the very dry weather, but of very good quality. Corn, not grown in this vioinity. Flax grown in very large quantitien this year, there being a flax mill in operation in this place; the average yield will be, say ten to fifteen bushels per acre. BRIGET. - In the country tributary to this station the harvest is generally poor, on account of the late and wet spring at seeding time, followed by excessive heat, turning into drought, which affeoted all grains, no crops in particular. In addition, fall wheat has suffered from midge. The only exception are peas, which are a good crop, over average.
Fall wheat is only half a crop. Spring wheat is a very light crop, below average. Barley light, only half a crop. Oats the same.
Hay an average crop. Of flax there is little sown in this vicinity and this is short, not higher than a in th
Dronbo.-Harvest weather has been unusually fine, grains of all kinds and hay having been secured without injury from rain. Fall wheat is the staple crop in this vicinity, and was largoly sown, but is a light crop, averaging about fifteen bushels per acre, but the quality is superior to that of former years. Spring wheat was also largely sown, but will not be an average crop, yielding from nine to ten bushels per acre. age crop, yieldeng rely sown, and will be an average crop.
A great deal of peas and oats sown-the former an excellent crop, the latter middling, will average about forty bushels per acre.
Flax short and generally light. Coated seed good; about 900 acres sown.
Hay an excellent crop. Turnips affected by drought, but improved by late rains; and if the weather continues favourable will be an average crop. Carrots and mangold wurtzel good, but not
much of either. much of either.

Potatoes light, very small, but quality good.
Paris-Fall wheat extensively cultivated, and is a good average crop; some farmers complain of injury by the midge ; but on the whole, fall wheat in this vicinity will give a good yield and a fine bright sample.
Spring Wheat is good; will yield well. A full Barley-A expected.
Barley-A large breadth of land sown. The crop is good, and a large yield expeoted; it is thought the sample will be much flaer than last year.
Oats, good crop, and will yield well.
Peas not largely cultivated, but will turn out well.
Corn, buckwheat, rye, and flax, not cultivated to any extent, but what there is promises a good yield. Hay an exceedingly good crop-the best known for years-and well saved.
Root crops promise well, and a large yield expected.

Fruit is very abundant.
In enquiries among the farmers of South Dumfries, Blenheim and Brantford Townships, the general opinion is that it will be the most abandaut harvest, in every respect, known for many years.
Calrdonis.-Fall wheat will average about twentytwo bushels per acre.
Spring wheat will average about ten bushels per Bare.
Barley will average about 20 bushels per acre.
Oats
Oats
Peas
Hay is a very large orop this season-cousiderably over the average of previous years.
Potatoes are not very extensively planted here, and will only be a middling orop.
Tarnips and carrots are never mach cultivated in this immediate neighbourhood, but what of them are sown will be about an average crop.

Flax is not sown around here.
Carrmeld.-Wheat-Very hitlo fall wheat sown owing to the untarourable state of the weather last full. Sample good ; Field fifteen to twenty bushels per acre. Spring what rather below an arerago crop; yield tifteen to twenty bushels per acre. Large breadth of barley sowa: but, owitg to drought straw will be rery short; still the yield will be a fair average, say twenty to twenty-five bushels per acre. Oats gooll; thirty to thirty-five bushels per acte peas only an average crop ; varymg in pield as re gards carly or lite sowing, iwemty to thirty hashels per acre. Rye good; thirty 10 thirty-five bushels per acre. Hay in new secdel meadows good; on old meadows light. Potatoes and roots generally will be a very poor yield for want of rain.
Dexvilis.-Fill wheat (but litile sown) will arerage about twenty bushels to He acre. Spring wheat will gield froin eighteen to trenty bushels. There is a good crop of barley, whell will yield. say, twenty-five bushels per acre. Uats, a bery good crop, averaging thirty-five bushels. The rout orops are good; potatoes gieliling forty bushels and turnips eighty bushels per acre.
Font Eme.-Fall wheat a good average crop. trenty bushels to the acre. Sping wheat very poor, owing to the drought; all spring crops are light. Oats turn out an average crop. Barley and peas also light. Hay crop good. No rye or corn sown here. Roots: Potatoes only a very poor crop, owing to the drought; kurnips now much sown here.

## WESTERN DISTRIC'T.

Detnoit.-Wheat, barley, rye, and oats are considerably above an average in the Western States As far as the crop of corn is coneerned, there is no decided opinion given ; some think that it may be nearly an arerage, while others think it must fall far short, owing to the excessive drought.
Utica-Fall wheat plump and good: average, cwelve bushels per acre. Spriug theat, none sown. Res good; average ten bushels per acre. ljarley an average crop. Corn an arerage crop. leas a light crop. Oats good : average. thirt -five bushels per acre. Iuckmheat late; will likely be poor. Potatoes and root crops of all kinds poor. Ilay an excellent crop. Fiax, none somn. Fruit crop good. coont Clemess. - Fall wheat per acre: arerage twenty bushels ; quality good. Spring wheat; fifteen busbels; quality good. Oats, thirty bushels ; quality good. Barley, twenty-fire bushels; quality good Coarse graias of all kinds under an arerage crop Root crops, from present appearances, an arerage crop. Fruit of all kinds an aterage crop. Fiad; none raised here.
Sxtras Catie.-The crops qenerally in this vicinity are over an arerage yich. Fall wheat is a fair crop, but not as yoon as was expected. Spring wheat is over an average crop, as likewise oats, corn buckwheat. Moots are : fair crop; potatoes rery pood; flax is rery littlogrown here. Pruit of all kinds is a gool yieh. Ajples bery plentiful.
PortHenon:-Fallwheat, werghuilegrown; but ritat has been sown will yield a full atrerage crop, Spring wheat, good arerage. Uats, more than an average Corn, overanarerage crop. Buckwheat, barles, and peas are excellent, and likely to turn ont well. Ilar rery heavy crop this sear, and generally well saved. Root crops hare an excellent appearance, and at pre fent admit the anticipation of a large yield. Flar. none grown in this vicinity.
Sansis.-Fall wheat: the greater part destrosed by midge; that portion uninjured is rery good. Spring wheat: the gield will be an arerage crop; some samples shown gare sixty-fire pounds to the wushel-well sared, sod fine berry. Oats: there
will be fine crop in every respect. io reo grown. Barlog fully the arerage yield. Peas: quality rery nice ; the crop will be abore the average. May will be very abundant. Clover, a good crop, and a good econd crop eecured. Roots of all descriptions good, and abore an arerage yich.
Fonest,-Fall wheat a poor crop; litte somn; will averago ten bughels to the acre.
Spring wheat will average fifteen bushels to the acre.
Coarse grains good; no: much threshed yet.
Root crops poor.
Potatoes an arernge crop and souml.
No flax in this neishbonrhood.
Widder-Fall wheat, the great staple heretofore in this section, has this year proved almost a total failure, owing to the rarages of the midge; the sicld vill not axceed seven bashels to the acre. Tha varioty known as midge-proof has turned out rery well, and arerages about trentr-five hushels to the
acre. The quantits sown is, however, limited; and what there is will bo in demand for secding purposes.
Spring wheat is about an arcrage; not much raised in this section.
Pcas aro unnsually good, and there will no doubt,
bo a considerablo sbipment.

Barley bas been well harvested; there has not been so much sown in proporion to other seasons. It will bo an arerago yield.
Uats are mubually heavy, and are being larrested in good order.
Corn is a full c.op; there is a larger quantlty than asual sown.
Root crops have progressed firpourably so far, but the continued drought is beginning to injure them, and the yield will be much diminished.
Flax and rye are not raised in this section.
Ailsa Cbic.-Fall wheat, owing to the ravages of the midge, is almost a total failure, with the exception of midge-proof, which will average from ten to twelve bushels per acre.
Spring wheat, about the samo
larles, an average crop.
Oats, a splendid vield.
lotatocs and turnips, owing to the extreme dreness of the season, will be rather is small crop, but there is no sign of potato disease in this ricinity.
Pamk Hurn_-Fall wheat-white fall is almost lotally destroyed by the midge, in some instances not gielding more than four bushels to the acre. Midge-proof is good-yield above the general arerage.
Spring wheat excellent-will arerage nearly fifteen bushels per acre.
Oats and barley.good.
leas; a little thin on the ground, but a fair arerage crop.
Iotatucs, very fine crops, though it is fenred there re symptoms of rot.
Turnips promise well. do flar in this vicinity.
1.tcas.-Fall wheat, poor crop, damaged by weevil, sample only middling; yield arerage twele bushels per acre. Midge-proot wheat very good both in yield and sample; average, about cighteen bushels per acre.
Spring wheat, middling crop, well sared and sam-
ple good; yield about fifteen bushels per acre.
Barley, not much sown this scason, arerage sample: gield, about twenty-five bushels peracre.
Peas, good; average forty bushels per acre.
Turnips good, but yield small, on account of the ary season

Flax-none in the vicinity.
Ilay-crop large and well sared.
Gravros:-Fall wheat in this section of country is but very little sorn, and with those riho hare ant is comparatirely speaking a failure; the yield will not on an arerage exceed ten or twelve bushels per tere.
Spring wheat, altiough somerhat short in the straw, is a very fuir rrop, and will arerage from twenty to twents-five bushels. The quantity of this grain sown is large.
Oats and barley are good, and will go from thirty o forty bushels per acre.
Peas are also good.
Of flax there is but rers little soim.
lotatoes aud furnips, considering the great continnance of dry seather throughout the summer, are good, and there is reason to beliere will be at least an arcrage crop. . 111 kinds of grain hare been sared wheat, the sample will be better than that of last fear. The shipments of grain from this station for the coming autumn and winter, will b, about one hundred thousand bushels.
Thonsdams.-Fallwheat, crop afailure; little eown; field aremge, about four to ten bushels per acre Spring wheat, fine crop ; plump grain, arerage yield serentecn bushels per acre. Peas very good, abou thirty-five bushels per acre. Oats, splendid crop ; will average thirty-five bushols per acre. Barley, excellent field, forty to forty-five buskels. Flax none raised. Hops, numerous sards; fair sield. Potatoes good, but below the arerage yield. Oucr root crons looking tell.
LoNDG :-All cereals this year in Midalesex, Thestminster and Elgin, have been good, viz, fall and spring wheat, the former about an average, the lafter in yield not better than last, but in quality far supcrior. Ibarley belter than last; samplo good. Pens, a full average; double the quantity kas somn this year. Oats, the crop will be very large. May, abundant and well saved. Farmers nererehad a betier year for cutting and housing their produco; fine weather the wholo rime. Flax, good ; not much own in this neighuonthon, princ.paly in Eigin doples whe be thatity in the markot to what thero was last year. Pootatocs-the marly crop very gool ; late ones will not bo equal to inst jear's yicld. Turnips improring and likely to bo good.
Sr. Mair`:-The crops in this locality will be fally up to the asarage of the mote farourable of past ycars, and fer excceding the crops of 1886 in quantity and quality. Fall wheal, rery good samplo; Fied rery abundant, except in bome fow felds
injured by midgo; it ras harreted in splendid order. injured by midgo; it ras harrcsted in eplendid order.
Snrice wheab a much hearier cron fun last jear;
rather short in the straw, from want of rain. The prospects of its being housed in a good, dry condition, are excellent. Flar-this artiole is fast becoming a leading staple in "ie neighbourhood. The crop is very finc. The dry weather during harvest will hare a most favorable effest on the quality of the seed. There will be none of the sand and earth mixed with the seed, as was the case last year. Potatocs and other root crops suluering for want of rain.
Sthatrond.-Fall wheat partially a failure in the immediate vicinity; will not be more than three. fourths of an average. Spring wheat is about an arerage crop near here, while firther north both spring aud fall wheat are -about an average. Every description of coarse grain a very heary crop; will considerably exceed the average. linot orops are doing exceedingly well, and lave not suffered from want of rain so sercrely as the grain crops. There is a considerable extent of fiax cultivated in this district, and the crop has succeeded tolerably well. The general sumunary is, that in the immediate neigh bourhood of Strationd fall wheat is particularly : failure, and spring wheat an average, while a little further north botb crops are heary. Coarse grains and roots are a great crop in all sections.
Suakespeame. - Very lithe fall wheat has been sown in this vicinity, but what there is, is a gnod average crop. Spring wheat is an arerage crop and of very good quality; all coarse grains are good. Roots, with the exception af notatocs, will be a guot crop. Flax : very little sown, what there is, is good.
Hambenc.-Fall wheat is over the average crop plump and good; the quality nerer was better; free from tamage of any bind. The quantity sown is not nearly so large as of spring wheat. In the immediate vicinity of lhamburg the spring wheat is light in straw, but the quality is good and free from damage. There will not be an arerage crop: A few miles from bere, both north and solth, it is much better, and will be over the arerage and a good quality. P'eas, oats and barley hare suffercd bs the dry season. In the immediate neighborhood of this station, although light, the quality is good. A few miles from liere, both north and south, they are excellent in quantity and quality. Flax is considered a good average crop. P'otatoes will be a. rery small yield, but the guality is good. The late min has rery much im proved the other root crops, and they are promising well.
Baden.-Fall wheat is more than an average crop both as to quantity and quality. Spring wheat is not of so good a yieh as to quantity, but the quality is rery fine. Peas, oats, and barlef, are rery fine, and
all these crops were never better saved. loot crops aro good with the exception of potatoes, which are expected to be rather small as to size. liax is somewhat shorter than usual.
Petersncrg.- Wheat will far surpass last year in yield. It is cxpected there will be about twenty bushels spring and twenty-two bushels fall whea: per acre. Coarse grains and roots will not be so abundant as previons jear, on account of the dronght. Flax is being more cxtensirely gromn, and is con sidered a good average crop.
Bembs. - Fall wheat: the quality ofall kinds of Fall wheat is crecllent, and from trenty to trenty-five bushels to the acre. The yield of midge-proof is a full crop, of white only half a crop. Spring wheat is also of excelient quality, but, being very thin, is hardly an arerage crop. Oats and barley good, bui not an average crop. Flar: thick but short, and therefore not an average crop. Root crops: very poor; the dry weather has ecrribly affected them. This calculation is made only for the county of Waterloo. In the counties back of this the crops are not only excellent in quality, but full crops, provided dhey are well secured.
Imbistac.-Fall and Spring Theat is a good arerage crop, and of good quality. Coarse grains and roots poor, owing to the dry weather. Flar, also, is short, oring to the same causc.
GeELrm. - Fall wheat is a good arerage crop, not laving suffered from winter killing so michas of late cars. Scveral instances hare come to notice lately, in mhich it has turned ont at the rate of thirty bushels per acre. Spring wheat is a lighter crop than usual, owing to tho wet and lato spring, and drought dircctly aftermards, although the berry is of good quality, and may turn out better ihan expected. leas, barley, anil oats, are gericrally good, although the latter crop (oats) bas suffered in this neighbour hood considerabiy bs rnst, which is raticr unusual. Flax bas inoreased largely as a orop this scason, through the townships north of Guclph, and rili bo an average crop. Root crops laro suffered in some lomalities by the dry scason, and aro nut $\$ 0$ formard as at this time last gear; but still uicro is prospect for eren an arorage crop of these esculents. with the present shorers. IIny is an excellent crop throaghont this section of country, and got in in cr-
cellont order.
cellont order.
Rocemood.
ROCETNOD.-Fall wheat is an arcrage crop; about
twenty-fiye bushels per acre. Spring do, about fifteen twenty bushels per acre.
Coarse grains-Oats about thirty bushels per acre; peas about twenty do; barley about twenty do. The root crop looks well, and may turn out an average crop. No flax grown around here.
Acton West.-Fall wheat good, and will average about twenty-two bushels to the acre. Spring wheat will not exceed a third, owing to the severe drought. Coarse grains and root crops will be short from the same cause. Hay is an extra crop, and well saved. No flax grown in this vicinity.
Limerocse.-Fall wheat is a fair average crop, say about twenty-two bushels per acre, of a good quality; the kind mostly sown this year was the "midgeproof." Spring wheat is very poor, both in quantity and quality, and will not average above ton bushels per acre. Very little barley sown; what there is is a poor crop. Oats is a middling good crop. Peas, a small crop. No flax sown here. Potatoes promise a small crop. No flax sown here. Potatoes promise
to be a poor crop. Turnips are growing fast, and promise to be a fair crop; there was a very good crop of hay, and well got in.
Georgetown.-Fall wheat has turned out exceedingly well. Quite a large breadth was sown, which almost entirely escaped the midge, and harvested in excellent condition. Owing to the absence of rain during June and July, Spring wheat will not reach the average of former years. The same may be said of oats. Barley and peas will give a fair average
return. Flax (of which a good deal is grown here) will not come up to the crop of last year, the growth being seriously retarded by the drought already alluded to. Root crops promise very well. The cultivation of hops was introduced here a couple of years since. The result so far has been very good.
Norval.-The crop in this vicinity is the best that Nas been harvested for several years. All kinds of grain yield well, being free from midge and rust. bushels per acre. Spring wheat will average twentytwo bushels per acre, and coarse grains will turn out well. Root crops will be very light in this section, owing to the scarcity of rain. Hay on new meadows is good; on old meadows it is very light.
Brampton.-Fall wheat over. an average; Spring wheat an average. Peas good; barley and oats very fair: hay light. Root crops rather backward, owing to so much dry weather.
Malton.-Fall wheat is an excellent crgp. On
ccount of the ravages of the midge for the last few account of the ravages of the midge for the last few years, the midge-proof variety has been principally sown, which does not yield so much to the acre as the kinds which were raised before the appearance of the
midge. The grain this year is full and plump, and will yield from twenty to twenty-five bushels per acre. Barley will weigh well, and may be reckoned as usual, on account of the dry season; not much straw; and though the vines are well covered with pods, the grain is small, and will not turn out above twenty-five bushels per acre. Oats an average crop, viz.: about thirty-five bushels. Root crops not half an average yield, caused by want of rain. Flax will also turn out badly for same reason. Potatoes will yield very little, not more than fifty bushels to the
acre, the vines being withered up by the excessive acre, the vines being withered up by the excessive
heat and drought of the past few weeks. Hay has been a good crop, and was saved in excellent order. Apples, the principal fruit crop in this neighbourhood, will yield about one-fourth less than an average.
Weston.-Fall wheat-what there is-is good both in quantity and quality. Spring wheat rather light. Coarse grains, medium crop. Root crop generally poor on account of drought. Flax very good, what little there bas been sown. The drought, in $g$,
las been the cause of light crops about here. has been the cause of whight very good, as is also Spring wheat. Coarse grain is not so good, but will be near an average crop. The root crop is bad in consequence of there not being enough rain in the early part of the season. No flax sown in this vicinity.
Toronto.-Fall wheat, housed in good condition, is a good crop, mostly midge-proof, this variety having been generally substituted for Soules' and others that are frequently liable to damage by insects; not very widely sown; average yield, twenty bushels
per acre. Spring wheat, a fair crop, suffered for per acre. Spring wheat, a fair crop, suffered for
want of rain as did all spring crops in this vicinity. The grain is plump and good, average yield fifteen bushels per acre. Barley, very superior in quality, but lacking in quantity; it was not so widely sown as last year, and the weather was too dry; there will be a falling off of one million of bushels on the shipments from Lake Ontario ports as compared with last year; average yield twenty-five bushels per acre.
Peas, a very fine crop, average yield twenty-five Peas, a very fine crop, average yield twenty-five
bushels per acre. Oats, a good deal sown, crop bushels per acre. average yield forty bushels per acre. Flax,
short; not much sown here. Potatoes suffered from drought;

## Fall Exhibtions

We publish as we have received them, brief notices of the County Agicultural Exhibitions in various parts of the country. Of some we have not seen any account, and many yet remain to be held. We shall, as far as possible, refer to others as they come under our notice.
Simcoe (Nortr).-The fall exhibition of the Agricultural Association of this riding took place here yesterday (Thursday, the 3rd), and was, besides being in many respects an improvement on last year's show, better attended. The horned cattle, horses, sheep and pigs, were really a credit to their exhibitors, as were also the few implements exposed. The speci mens of roots, fruit, \&c., though not numerous, were
the best we ever saw shown in Barrie. In the department for manufactures the display was meagre in the extreme-there appearing to be almost a studied or premeditated determination on the part of our local artizans not to let the world of North Simcoe witness their handicraft.-Barrie Examiner.
Simcoe (Soctr).-The fall show of the Agricultural Society of the south riding of this county took place at Bradford, on Tuesday and Wednesday of of this week, and was, as usual, a very creditable affair-the various departments being very wel filled, and the attendance good.-Barr ie Examiner.
Wentworth and Hamilton Show.-The united exhibition of the county of Wentworthand HamiltonSocieties was held at Hamilton, on Tuesday and Wednesday, the 8th and 9th Oct., and was on the whole successful as regards the articles exhibited, though the weather was extremely unfavorable for visitors. The detailed account of the exhibition reached us too late for any lengthened notice in the present issue, but we hope to give a fuller description in our next.

York Township Show.-The annual show of the Yorkvilunsip Agricularal society took place in day. The attendance was, in consequence, small, but the exhibition itself, though not extensive, was creditable. There was a fair display of good stock, and, taking the season into account, a very good collection of field products and fruits, as well as garden
vegetables. It was, perhaps, too late in the year to vegetables. It was, perhaps, too late in the year to
expect much in the way of flowers, which would have been the most meagre portion of the show but for a collection of greenhouse plants furnished for ornament, and not for competition, by the Hon. D. L. Macpherson.

Wellinaton (Socth).-The Fall Exhibition of the South Wellington and Guelph township agricultural societies opened in the drill shed on Wednesday. Owing to the re-institution of the Eramosa and Puslinch local societies-by which the competition of those townsfips is in a great measure withdrawnthe show was not so large as formerly, though the quality of the articles was in nowise inferior to the exhibition of 1866. The dairy produce was very superior, and some few specimens of butter were of exceeding relish and beauty. Home and factory cheeses were also well represented. The ladies work attracted general admiration, and a greater variefy was exhibited in it than in any other depart ment. The grain and roots were pronounced first rate, especially the wheat, peas, potatoes, and man gel wurzel. The cabbages and horse carrots were ior to exything show of woone was not a very extensive show of implements. There was a fine show of horses in all classes. The young horses generally were very good, and we think gave evidence that the farmers in this section are now bestowing more care than they formerly did on the
rearing of good horses. There was a splendid collecrearing of good horses. There was a splendid collec-
tion of cattle, large, well-bred, and possessing al the points so highly thought of by breeders. The show of sheep excelled every other department. A long range of pens was occapied with the differen classes, and a continuous stream of people kept around them all day. The Leicesters were more
numerous than any of the other breeds, and it would be hard to match some of them in any part of Canada.-Guelph Advertiser.

The South Riding of Waterioo.-The Annual Exhibition of the South Riding of the County of Waterloo was held at Ayr, on Wednesday, Oct. 2, in
the large field at the rear of Mr. John Watson's Foundry. The new Drill Shed was improvised into an Exhibition Room and answered the purpose capitally. The attendance of people was very large, and not withstanding the premonitory symptoms of a disagreeable day which threatened to spoil the proceedings, the show was a success. The show of sheep
was fully up to the mark as respects quality, but in was iuns there was a slight falling off. Leicesters
showed a large increase, there being 104 entries against 81 last year; Merinoes, 50 against 48 last year; and Southdowns 34 against 38 last year-in all tle also there was a slight decrease- 112 en'ries against 125 last year-but the stook was spleudid. The show of horses was the largest, and excelled that of any former exhibition. 239 entries were recorded, and good judges affirm that such a display has seldom been seen in Canada. In Agricultural Implements the Ayr Foundry perfectly overwhelmed all competitors with the number of articles exhibited from it. Mr. Watson's name was entered for something over 33 articles in this department. The management of the Exhibition reflects much credit on the Direotors, Secretary and Local Committee of Ayr, who worked most industriously to secure its success.-Galt Reformer.
Hastings (South.)-There was a finer show of The aricultural implements than at any previous fair. The show of stock was far superior to that of last year in most respects. Of sheep particularly, there was the finest show we have ever seen at any county exhibition. There was also a large variety, comprising Leicesters, Southdowns, Merinoes and common sheep $\mathrm{z}_{\mathrm{k}}$ and it was the opinion of those who were at the provincial exhibition, that some of the Southdowns and Leicesters would have carried off prizes there had they been on exhibition. Of pigs there was also a better show than last year, particularly of young anidith The show of horses was also far
ahead of last year, particularly of young animals. We don't remember ever having seen, at our county fair, so fine a collection of two and three year olds as was on the ground to-day. Finely proportioned well-bred, and having all the "points" which horse fanciers desire, there was the making of a lot of finn roadsters on exhibition amongst the young stock. Of brood mares with colt there was a meagre show. In carriage horses, single and double, there was a fine
show ; some of the turn-outs would have done credit show ; some of the turn-outs would have done credit
to large cities like Toronto or Montreal. Of dranght horses there were but few on exhibition. Of cattle the show on the whole was about what it was last year, though in milch cows it was considered a great deal better. Take the stock as a whole, it was an improvement upon the exhibitions of the last two or three years, and we hope we may have the satisfac tion of chronicling further improvements in future In the grain department there was a great variety, and some of the samples were particularly choice Of cheese there was a great variety, better slamp, quality, and more of it than was ever exhibited at one county fair ; but of butter there was bnt a meagre display. But if it was limited in quantity it was choice in quality. One or two lots of ducks and geese and hens, comprised the show of poultry. It is to be regretted that our principal poultry breeder did not give the society and the public the benefit of their enterprise in improving the breed. The vegetable department fas not so large as we have seen it. In the galleries of the skating rink the ladies made a display of their handiwork, in the form of quilts, counterpanes, rugs, worsted and hairwork, and a great variety of other work both useful and ornamental. The fruit department was the crowning feature of the exhibition. The show of apples embraced nearly every variety, and the quantity was treble that of any previous year, while the quality gave evidence of a steady improvement. There was also a large variety of pears, and of grapes, which would have been considered a creditable display ai of both hot-house and ens of Toronto or Hanilton. Of both hot-house and out-door grapes there was a large variety, and the specimens shown produced no not wonderment in the minds of those who were here aware of the extent to which they are grown ing the day to both outside and inside exhibitions, and on the whole the fair may be said to have been successfnl.-Belleville Intelligencer.
Elgin (East).-The fall Exhibition was held on Tuesday, the first inst. The day was fine-very favourable to the business which brought several hundreds--probably a thousand-from their homes to the show grounds. In this respect there was no falling off, and, we might add with sajety, that there was no falling off in the general merit or quality of the animals and articles entered for competition; but there was a decided falling off in the number of entries made in almost every class of the prize list.
Of mares, carriage horses, horses for general parposes, draught horses, buggy horses, saddle horses, \&c., there were little more than half the number of entries made last year. In thorough-brcds there was also a slight decline. In grade cattle there was also a decided falling off, and especially in the younger animals. This was attributed to the adverse season. It was so dry, that it is only in $n$ few
instances that animals look like themselves. In fat cattle, however, good as the show was last year, this
ras far superior．The show of Leicesters was very fair．althongh the animals were not in such good condition as they were last sear．There were no Merinoes，mad bit two or threo Cutsnulds．In hogs of large bred there was a decided improvement， both in the numbers exhibited and in the qualits In the small breeds the show stood very muoh as it did at the previous fall exhibition．In grains of all kinds the show came up to that of last year in quan－ tity，and surpassed it in quality．The same may lee remarked of roots and vegetables of all kinds．The fruit was better this year also－pears and peaches being well represented，while last year we bad none． Of farming implements the grounl was very bare In home－made mannfactures and ladies＇handiworh the exhibition was rather barren．－St Thomas Home Iournal．
Norti Ridina of Oafor＂Aomictitctan．Exmb－ toox．－Mr，R．W．Sawtell sends us the following ac－ count：＂Very great success has attended our Town－ ship Shoms thronghont，and the North Riding Exhibition in particular．The Show lasted only one day，and the whole town was literally crammed．It is computed that 4,000 visitors were in town，and that 3,000 were on the fair grounds at one time． There were entered， 191 horses， 120 sheep， 500 ushls． of grain． 80 checses， 18 packafes of packed butter， and 28 specimens of table butter；also，large dis plays of frust and ladies＇work．All appeared well pleased with the day＇s proceedings，and not a dis orderly case or accident occurred during the day．＂
Pertin．－Yesterday（Thursday，the 3rd）was the first day of the annual fall exbibition of the County Agricultural Society，and as usual the spacious Town flall was filled with the various articles entered for exhibition－the show of catte，agrioultural imple－ ments，\＆c．，not taking place until to day．On enter ng the hall，the visitor could not fail to hare his attention attracted to the maguificent display of fruit which completely filled two tables placed longitudi nally，and was by far the best evidence of horticultural skin ever before put forthin the countr．Contrasted with the growth of ten years ago，when Perth could boast of little more than a tew apples and wild plums，the specimens of cultivated fruits on exhibi－ ion were a cheering indication of the capabilities of this county in horticulture as well as in agricul ture．There were other proofs of adrance，such as millinew goods，fancy work，photographs，and many ather things which we have not time now to euumer ate．Home manufactures were about the average but we hope before many years to see a good exhibi tion of factory－made goods．There were some very ane factory cleeses on vien；and the bread and but ter，honey，dc．，were of the first quality．Considering the geason，the garden stuffs and tield roots showed well．－Strafford İeacon．
Mtdolesex（West）－The annual fall fair of the West Middlesex Agricultural Society took place on Thursday，the 3 rid，on the societys gromads at Strath－ roy．The weather was delightfinlly cool and plea－ sant．The attendance evinced great interest in agri－ cultural matters，ietween 3,000 and 1,000 persons being upon the ground．The show of horses was pretty large，but not angthing extraordinary in quality．One or two fine teams，sereral goung aud displ．r．Cattle were largely cxhibited and Pin comle $s$ fine herd of Devons was mucli admired．No Dirbams of any consequence shown．A nuticeable cature，as showing the comparative newness of a portion of that district，were the numerous yokes of ane oxen exlibited．One or two Gallowass were worthy of mention．The sheep，mostly Leicesters were ahead of those shown last sear both in quality and numbers．The swine good；poultry very fair In fruit，the display of apples，plums，peaches，pears srapes，melous，de．，was very gine．The roots will compare with nny we have scen this gear．The dairy and home department ras crecllent．The ladies department was rery meagre and nothing 10 com paro with last year＇s．On the whole，the show was spirited and successful，and prebably not inferior to any ever held under tho auspices of the society：－ London Frec Press．

Ustario（SotTin）．－The show of whent，barles，yeas and all kinds of grain，was such as to afford nople proof of the industry of our jeomanry，the quality of the soll and climate being well adapted for agri－ cultural purnoges．There was also a good show o well culdirated roots．A belter quality oi potatocs， turnips，beets and carrots，has seldom lueen presented， and the cabbange，kalo and cauliflowers were of su－ perior quallty．The array of fine npples，well suited plums and grapes，mas of the most inviting kind and quality．Tho checringadrancement in manufacturing quality．Tho checring adrancement in manufacturing crinced by the cxhibition of a suncrior quality of
cotlon and poollen cloths，and a rich Faricty of
flannel and satinetts，woollen blualets，sheets and superior plaids．There was also an excellent display of rag rugs and carpess，and an excellent show o knit and piece－worked counterpanes，equal，if not excelling，anything we have seen on any simatar oc－ casion．The quality of butter and eherese e．snot be surpassed in any part of our lominion．＇lya ypeci mens of maple sugar，bees－wax athl honev，were en cellent．The show of cattle amb horses was really superior．It was very encomazing to tind the catries comparing favorably with those at the provincialexhi bition，and wedonot think the stock was at all inferior： The show of implements，de．，was not so gooul as we could wish to see in this connty，hat thase extibited were good．It is supposed that not less than ten thousand people were present．－Whilly tiazette．
zar The cattle plague has assumed such formid able dimensions in the province of Girgenti，yatermo that nearly all the cattle in the district have perished through its ravages．－Furmer（Ecottish）．
 ing rapidly with the encouragement of the sham plough．Vast reservoirs are being built for irriga tion．
zZ－Roofing－slates are being exported from New－ formdand to the States，Quebec，and Halifia．Two vessels cleared from Smith＇a Somind on the 1. ith and 16 th August，with 127，000 slates．
zat Fires in the roods are doing great lamage in Newfoundland．One village in Green lhay has been completels destroged．Three persous have been convicted of raising fires，and are undergoing punish－ ment．

Cincaco Camtire Mareet．－Parton，in the Aliuntie Honthly，some time since，described the stock yards near Chicago as＂The great bovine city of the worla． Two millions of dollars have been expended in fitting up the grominds．About 350 acres are enclosed in cattle pens－ 150 of them being floored．There have been at times as many as 25,000 cattle， 20,000 to 30,000 sheep，and $75,000 \mathrm{hogs}$ stored in the place at one time．
The：Cattle：Plagte ne Englasd．－For the week ending the oxth of dugust，one fresh outhreak has been reported－viz．．at Low Fsh，in Durham The diseased animal was killed．There was one healthy animal slaughtered to prevent the spread of the dhe－ easc．The total number of cattle reported to have been attacked in Great Britain since the commence． ment of the plagac is 275,924 ，and 56,901 healthy cattle have been slanghtered to prevent the spread of the disease．－Firmer（Scottish）．

Porsonen Cmer．－The death of an agricultural labourer having occarred recently in Merefordshire． England，in consegnence of dronhing cater，canury ras made into the circumstance，and it was aseer－
tained that white lead had been used between the staves of the barrels in which the cider had been kept；and this was，no donbt，the canse of the tatal poisoning．＂These casks，＂says the Farmer（scoush）． －trere some of a lot（200 or 300 ）cunsigued for sale rum a Liverpool or London cooperage last antuma， and disposed of by anction in Hereford market． They were distributed throrghont the county，and the fact throws some light upun the cramps，spasms． nausea and paralgsis，that have for some montus been disabling a number of labourers in the county． The coroner has summoned the assistance of the lar－ mers of the district and the medical men of IIereford to assist bimin trying to arert a wholesale puteumag．
Imsin Agmectitue．－The exbibition of the Rogal Agricultural Society of Ireland，this year，was a great success，the greater because the show was omited last year on acconnt of the rinderpest．Two hundred and fifty prizes were offered，varying in value from one pound to one hundred and fifty pounds．The nost striking feature was the show of horses．The famous Irish horse of tradition had become at sorry object when the society took him in hand，but he is coming up again very fast．There were no less than two hundred and fifty－eight entries．The cutries of sloorthorn cattle were eighty－five；of Herefords． fourleen，of other breeds，aboat one hatiled；of shecp，one hunired and forty－five，and of saine erenty－cight．The show of machinery and farming implements was very large．The sociely has three bjects，to hold threc annual shows in the leading Irish tornas，to foster local Agricultural Societies， and assist them in the improrement of farming methods and the breed of cattle；to make the drellings of the farming class and their manner of life more comfort－ able and pleasant．In this crusade against ignoraace， wasto and misery，it is doing more to mahe Ircland a contented，and therefore a quict conatry，than all the contented，and merefore a quict c
politicians in Loadoa and Dubliu．

Union Exhmitions．－Tho St．Catharines Journal urges the formation of uniou shows in some eligible phaces in that section of the peninsula．．The Gran－ than Agrieultural society and the St．Catharines Hortheultural society have gone into partucrship for flue nonce，amd will hold an united exhibition at the Town lall ；and as the prize list is ou a liberal scale there will be some incentive for exhibitors to do their best．We hope，too，that this beginning will lean the way for a great union show，in which at hast the whole comity of Lincoln，if not the county of Welland，will be represented．If all the town， township amd comuty shows in the two counties were merged into one，the result would be a display second only to the l＇rorincial Exhibition．

New Уork State Thal of Aomecltural Imple：－ stivt．This trial，comprehending principally imple－ ments used in preparing the ground for crops and their after culture，up to the time of harvesting，com－ menced at the eity ol Utica，Sent．1lth．So far as we have bern able to leara from our exchanges，the in－ terest manifested in the trial，by the farmers of the state，was very limited．
The trial continued through six days，and is report－ al to bire been one of the most thorough ever held in this country．The use of the dynamometer for testing the draft of machines，cost the N．Y．State Agri－ cultural Society $\$ 500$ ，and undoubtedly gave the most accurate results erer obtained．

The report of the judges will probably appear some time next month，and will be very complete in all its details．－Prairie Farmer．
Fand Vishurtion of the Tollonto Elfectomi，Divi sun Sunfit．This Show is to take place on Mon－ day．the 2lst instant，in the Music IIall of the Ne－ chanies＇Institute，instead of on the listh and l6th of the month，as previously announced．The military ocupying sha Crystal Palace and grounds，and no other suitable place being available for the purpose， the Society has been compelled to dispense with the show of live stock，and to confine the prize list to fruits，veretables，grains，roots，dairy products， prape work．and the fine arts．The cultration o extended in tuis cits as the prize list is so framed as to cmbrace nearly all the leading varieties．we hope to see a very lively competition in this，and in the other sections of the fruit department ；and a large crowd of visitors also． to encourape the Society in its efforts to promote the progress of the various industries to be represented．
Ehort－home Sales．－Mr．Snell senis us the follow－ ing list uf recent sales，which we publish for the in－ formation of harmers，who should keep track of all the best stock in the country ：
lmong my recent sales of Short－horns，are the following：To Messry．Simpson，and Shatr，Darling－
tnn，Claston Duke，calred 2ind Oct．， 1866 ． 1 By Duke of llowion， 154, dam Blauche，Le Princt of the Wist，5SS．To Mr．A．Watt，Elora，Galaxy；calved elth Oct，1866．By Duke of Bourbon，dam Jennie， hy Prince of Wales．ja8．To Messrs．Graham，Bear－ man nud Dawson，Ottara．＇Bourbon Baron，calved 10ith Novenber， 1566 ．By Duke of Bourbun，dam Vina，by Baron Solway，45．To Mr．Juhn Sharp， Efuctown，＂Bell Duke of Bourbon，calved 16th orrmber．1Sc6．By Duke of Buurbon，dam Bessic 1Bell， 1 y Young Engl：ud，S32．＂
Siterir for：Mchean：－Mr．A．Babcock has for the last fow daye been engaged it making purchases from some of the choicerat Leicester and Cotswold thocks in this neighbour．ood，and recently shipped a car loan．The following are some of his purchases we have hearl of：From Thomas MeCrac，Esq．，cight shearling ewes，two cam lambs，and twenty－two ewe liumbs；I．Parkinson，Esq．，ten shearling ewes； Joseph Parkinson，Fsq．，one ram lamb－all pure bred Icicester stock．From Evan Macdonald，Esq．，two sharling Cotswold ewes．one ram lamb．and two ewe lambs；also from Mr．John lles．nine ewe lambs，and four eve lambs from Mr．George Radd．They make a tutal of sixty－one sheep．Thes were purchased for the Ilon．Mr．Crapo．Governor of Michigan，and are destince for has farm of 1,000 aores，near Flint． Genessec Counts，in that State．We may state that the elicep，were the pick of the flocks，and high prices were paid for them．This is another proof of the enterprige of the farmers in this gection，and shows hor profitable it is to keep and raise first－clacs stock． for they not only fetch better prices at home，but entice partics from $\begin{aligned} \text { a distance to pecome customers．}\end{aligned}$ entice partics from
－（iuclinh Mrald．


Amateur Grape Culture.
Nor many years ago, few persons thought of attempting grapo culture in Canada, excepting under glas: ; and as ground vineries were then unknown, the trouble and the expense of growing this fruit. especially when artificial leat is employed, deterred from the attempt all but a few, who were cither very enthusinstic. or possessed of superthous wealth to bestur on a favorite undertaking. Recent experience has. howerer, abundantly proved that the climate of Canada is well adapted for out-door grape growing The extensive experiments at Cooksrille and clewwere, have established this beyond question. Not a few in the neighborhood of these large vinerards have commenced the culture of this fruit either for home consumption or as a means of adding to their resources in the market; and where ordinary judgment, industry and patience have been displayed, the results have been most encouraging. We strongIy recommend all harmers linang ia thuse sections of the country whers there is good reason to expect success, to plant at least a few vines. No plant is more beautifnl and ortameatal in growth, and no fruit more delicious and wholesome.
We hare been surprised and gratifed to see, eren within the narrow compass of a small city garden, the must bountifal crop of out-loor grapes. We visited recently the garden of a geatleman residing in Turuate, and had the pleasure of witnessing the results of his successful- cuterprise in grape-growing. He whatibed zume cifht or nine years ago, and now the walls of his dweltind house and every arailalle space of his garden are covered with a most lasuriant and prolitic growth of vines. On the west ade withe huse are thu or threo rints "hich hare
attined a maguificent grow th, and cover the whole caitent of the wall. These vines and others trained on trelliees, mostly on the borizontal plan, hare yieldcil abundatly during thu past season. In seroral instances, we were informod, upwards of a buntred pounds of fruit have lieen gathered from single vines. This had been ascertained, not like some rop returns, by the cstimated quantity, but by actaal neasurement; and from the crowded and luscions lusters that yet remained, it seemed likoly that the field of other vines would be equally abundant. The varicties in greatest force were the Isabella and the Clinton: but other and newer sorts had place in :his model garden. If such results can be atteined at a small plot of city land, what should hinder the armer from adding this excellent fruit to the treasares of his homestead ? The attention and work re. quired are such that the females of the family might andertake a large portion of the eare demanded, and gould thus be most fitly employed in contributing to the comfort and attractiveness of their homes.

## Meeting of the American Pomological Society.

Tus: Ohio Furmer gives the fulloring account of die meeting uf the American Pomological Society.
This biennial gathering of the nurserymen and Pruit growers of the E"nion occured this fear for the firt time on the west side of the Mississippi, at St. I.ouis, Sept. 11-13. Liboral preparations for the event had buen made by the Missouri State Uorticultural Socicty and citizens of St. Louis. The two vers large ane splendid halls of the Polytechnic Institution were used for the occasion, one, deroted Institution were used for the occasion, one, deroted
to the exhibition of fruits and the other to mectiogs for discussion. dic.
The display of fruits mas pronounced the finest crer witnessed in this country, comprising orer tro thousand plates or samples-Apples, Pears, Peaches,
and Grapes in good proportion. and excellent in quality as well as variety ; the peaches and grapes luciag especinlly remarkable in quality and excel. leace.

Among the cchibitors of pears, Marshall P. Wilder of Boston, President of the Societs, had 112 varieties, and Ellwanger and Barry, of Rochester, G0 varietips.
Judge Hoadtey aud others, of Cincinnati, had a large Judge Hoadley and others, of Cincinnati, had a litrge
collection, also the Fruit Gromers' Sopiety of Sonthern llinois. The apples came from a very wide range, cmbracing halfa dozen or more States. The peaches and grapes were mostly from Missouri and Illinois, though many of the newer varieties ware from Ohio and farther cast. Samples of the mew blackberries wore exhibited from New Jersey, and autumn-bearing raspberries from Ohio. There was also a large display of native wiaes under the supersision of the Dississippi Valley Wine Growers' Asrociation.
The number of delegates and members in attendance was about 300 , representing twenty or more States of the Union. The chair was occupied by the Fenerable Col. M. P. Wijuer, of Massachaseits, who has flled the offco of President eversince the organization of the Societs, eighteen searsago, and hal just returned from Eiurope in order to be present at this meeting Mr. Barry, of liochester, had been his companion of travel, and together they hat given attention to the exhibition of American wines at the Paris Exposition, and visited some of the best vineyardists of Europe.

The discussions at this meeting were quite varicd and interesting, relating to varieties of fruits, their culture, mareeting, \&c.; atso the dificulties and discouragements of fruit culture, blight, milder, and other causes of failure. Grapes and grape culture, in this as in other mectings of late, occupied more time than any obler topie, in spite of some ellorts to the contrary.
3 fr. Wm. Sanudners, of the National Gardens, Washington, read an interetizg cesay on rot and mildew in grapes. Mr. A. Fendler, of St. Louis, read a valuable paper on tho samo subject. Mfr. Meehan. editor of the dardener's Monthly, Philadelphia, gare an able treatise on-blight in fruit trees; Mr. Dunlap, of Chicapo, on packing and transporting fruits; and Dr. Trimble, of New Jersey, on the curculio and codlin moth. The address of l'resident Wilder embraces quite a number of interesting and important topics. Most of these productions were immediately printed, with a full report of the procecdings, in the St. Louis daily papers, and will be included in the rolume of trausactions, soon to be published for the members of the Society.

## Edinburgh Working-Men's Flower Show.

Tae Third Anaual Exhibition of Flowers and Plants grown by the working classes of Edinburgh in windows, back greens, areas, and city garden plots. Was held in the Grassmarket Corn Exchange, on saturday, August 3rd, when the products sent in for competition presentod such a marked improvement and increase in numbers over those of the two preceding Years as should induce not only the promoters of this
philantaropie morement to go on perseveringly in oxtending a taste for flowers and flower calture among the artizans of the Scottish capital, and their children, but serve to show an example rell trertbs ef initation in othe: torns by those who hare the means of fostering a love for the instructive, humanizing and clevating pastime of
opulent neighbours.
Before distributing the numerous arrards, the chair man, Mr. Balfonr, professor of botany, said he had to congratulate the meeting on this most successfal show: The committec had examined the articles sent in for competition, and they had unanimously de clared it to bo ono of the best shows thoy had seen. last year they had about 100 more competitors than lastiens and areas was quite keeping of Findow gardens and areas was quite remaritable. he was
delighted to see the working classes taking so much interest in plauts. It was natural to man to do so His existence, as a worker, began in the garden whether in health or sickness, thowers and plents afforded him a solace and delight. He beliered the and eren in the most crowded parts of the city they would spring up; and whero they were carefully tended, they could not fail to have an exsellent effec upon the temper, conduct 5 nd life of those who be stowed on them their carc. He hailed this as a mos auspicious occasion, and he was delighted to see shat the wholo collection was remarkably good. Some o were equal to what they would find in the Botanic Garden. The collection of Joln Heseltine, cmbracing 200 plants, well gromn, delicate in form, nnd riuh in colour, was really wonderful. The window frames were admirable, groat tasto being shown in the conrast of colour, and in the training of the platits. The coumittee appointed to visit the arcas reported to this morement-Farmer (Scottiat

## To Make Superior Cider,

The apples should be ripe, cleaned when picked, and put in a lin and there remain for sereral dajo until they become mellow, then ground (not too fino so ns to be pulpy), then laid ap in a cheese with rye straw, the straw dampened with water. After tho cheese is laid up, let it stand about twelve hours before pressing, then press gradually. l'ut the julee in clean whisky bartels. Alter the cheese is pressed out, put the barrels containing the oider in a cool place, upon blocks, for working or fermeating ; be particular to keep the barrels full while the fermensation is going on. After the fermentation is donewhich can be told by a coarse froth ont the bung hole, rack or drain off the cider (not disturbing the barrel), and put the barrels containing it in a cellar or cool place; tano out the bung and let the cider again work, the barrels to be kept full while working. When done working, again ract on and put in cleau barrels as before.
It is necessary to rack three times, repenting the samo process; and when the racking and the fermentation is all gone through, the barrels must be put on blocks about six: inches from the foor; drain out of each barrel one gallon of cider, and put in the barrel one gallon of St. Cruz rum, and a piece ol codish as big as a medium-sized man's hand; then bung up tight and let it remain for thirty days or longer before using.-R. F. Jonnsos:

## Facts in Fruit Culture.

Dr. Trambe, of Newark, N. J., who has paid great attention to fruit culture, gives the following as hio riers-the result of many years' experience:-

1. That the cust successful way to conquer the curculio is to gather the fruit as it falls and feed to stock to destroy it, as it is by this fallen fruit that the curculio propagates its species.

- 2. That the fruit of the apple tree can be protected from the apple-tree moth by wrapping around eaeh tree, two or three times, a rope made of $\mathrm{s}^{\text {traw }}$. The moths will harbor in the rope and can then be destroyed.

3. That the only wray to hill the peach-tree borer is to cut him out with a knife, not cuce only in a season, but to follow him up erery tro weeks until exterminated. After the first "going over" of an urchard this will be little or no trouble, as each tree can be attended to in two or three minutes.

Proncsctation of Ghapholis. - Mr. Beaton says, that It may be as well to put jun wh your guard against a common provincial way some people hare of pronouncing the word Gladiolus, by pntting the accunt or stress on the letter o; whereas the true way ot tutering the same is as if written Gladerye-olus, putting the accent on the $i$." This warning was given in one of the earliest volumies of the London Coltage Gardener, and is now brought up again in evidence against those who adbere to the condemacd pronuaciation.

Grares.-The Guelph Aducrtise: says:-Three years ago Mr. Wm. Stevenson, of the Guelpha Nursery, planied a very choice assortment of rines, with the intention of introducing them for extensive cullivation throughout the county. Ile has just gathored in bis first crop-a rich and heary one, that sells readily for 50 c per pound. Wo believe Ir. Darid Allan and others have planted some vines also, but more for experiment and ornament than for the purpose of raising a marketable crop. We hope our farmers will inquire into the subject, and introduce into their orn gardens this important product. Wherever it bas been tried throughout the Province it has proved a success.
Strambemaes.--The atrawberry is occupying more attention in the United States than any olher frait, if romay judge by the number and length of the artieles concerning it that nppear in the papers. One of these, in the Advance, the new religious paper of Chieago, gires the statistics of the crop around that city this last summer, in igures alroost incredible for magnitude. In the lieight ol the season, one handrel tons, or 5,000 bushels, trere received daily ia Chicago of this delicions frnit! In the New lork Ohscreor there is a detailed statementirom the Oncida Comman ists, of Walling ford, Counccticat, ebowing the resalts of cultivating nine aores and a quarier in stramber rics, foar and a quarter of whioh only bore for the first time. The entiro crop aroraged one handred busbels an aore, which they considera partial ouluro; and their gross sales amnountod to 85,915 , at mbout twenty cents per quart The exponses of cultivation wero $\$ 1,739$, and of harvesting and maizetiog, 31, 875 ,-leaving a.net profit of $\$ 2,299$, or about $\$ 259$ per acre. And this was considered a poor crop.,

## Elit Exousthold．

Cement fon Ifori，Motner－of－Pesri，net．－Dis－ solve one part of isinglass and two of white glue in thirty of water；strain and evaporate to six parts． Add one－thirtieth part of gum mastic，dissolved in half of one part of alcohol，and one part of white zitue． When required for use，warm and stake up．

Watsarmoof Boors．－A correspondent writes that six years＇experience bas convinced him that a cont of gum copal varnish applied to the soles of boots anil shoes，and repeated as it dries until the pores are filled and the surface shines like polished mahog－ any，will mako the soles water－proof，and also canse them to last three times as long as ordinary ones．－ Sorthteest，Frecport，Ill．
Acid Srams．－These may generally be known by redlening black，brown，and violet dres，and all blue colours except Prussian blue and indigo．licl－ low colours are generally rendered paler，cxeept the colour of ammato，which becomes orange．These stains are neutralized by alkalies．A spot，for in－ stance，on a woollen coat，from strong vinegar or sulpluric acid，may be entirely removed by applying a solution of saleratus．Apply it cautiously until the acid is exactly newralized，which may be known by the restoration of colour ；and then sponge of the galt thus made by means of a sponge．Anmonia is better for delicate fabrics．Sweet stains are chicay occasioned by a little muriate ofsoda and acetic acid， which produce nearly the same efects as acids gener－ ally，aud are to be remored in the same vas．opera－ ting cautiously．－Grotantemn Telegraph．
Tae Cost of Livina．－On the question of how large a sum may bu sared frum $\because$ small salary，a lady says in an excbange：＂Jy income is \＄3 per weet， which I spend in the following manner：Board and Washing，\＄4 25 ；church contributions， 25 cents； car fare and books， 50 cents ；clothes，$\$ 150$ ；total，
$\$ 650$ ．The balance，$\$ 150$ ，I deposit iu the bank．＇ $\$ 650$ ．The balance，$\$ 150$ ，I deposit iu the bank．＂
A soung man gires his experienco thas：＂My in－ come is $\$ 20$ a week．My arerage expenses are，for board and room， 5760 ；clothing，$\$ 6 ;$ billiards， $\$ 150$（I play a puor game）；drinks，$\$ 1$ 20；horse hire，$\$ 3$ ；literary，True Flag and Police Gazetle， 10 cents；washing，：．5 cents；elarch contributions， 5 cents；washing，
cents；total，$\$ 23$ ．For the balance $I$ draw on the old man．My washing bill last year was \＄1s，but as my necessary expenses trere so high，I was able to pay only $\$ 13$ of it，which gives the arerage of 25 cents a week！I would like to marry，but don＇t see how I can．The ladies are su extratcugat and hase so nany expensire habits，that I can＇t suppurt a wife．＂
What a Good Wife ls Worth．－a Kentucky far－ mer furnishes the following evidence of the moncy value of a wife．The companionship of such a wife was even more precious than her industry and cconomy：－＂I have bcen farming twents－two years． The first four years I was unmarried．I began farm－ ing with 250 acres，it the Bluc－Grass region．I handled cattle，hogs，sheep，and horses－principally the first troo named－and lived，I thought，tolerably economically，spent none of the money for tobacce never betting a cent or dissipating in，any way； and yet at the end of four years i had made little or no clear money．I then married a joung lady eighteen years of age－one who nerer had done any house－work or work of any kind，ex－ cept making a portion of her own clothes．She had nerer made a shirt，drawers，pants，or waistcont， or even semed a stitch on a coat；and get before re had been marricd a year she had made for me erery one of the articles of clothing named，and knit numb－ bers of pairs of socks for ne－jes，and mended divers articles for me，not excepting an；old hat or two． Sho had also made butter，sold eggs，chickens，mad －other forls，and vegetables，to the amount of near 600 dols．in cash，at the end of the year ；whereas． dariag the four jears that I was single，I nerer haid sold fivo cents ${ }^{\prime}$ Forth，besides making me purely happy and contented with and at my own home． And as to making money，re hare made monef clear of expenses overy year since ro were marricd，in ererything that we hare undertaken on the farm， and she has made from 350 to 600 dols．erery ycar except one，during tho time，selling butter，cggs，and marketing of different kinds．My searly expenses for $\mathfrak{i n o}$ clothing，\＆c．，beforo I was married were more than my searly expenses wero after I mas married combined rith tho expenses of my rife and children，and our farm las increased from 250 to 650 acres；and I believe that if I had not marricd it wonld havo increased but little，if any；and I have never been absent from homo six nights when my wifo was at our home，sinco we were married，and her checks kiss as sfreelly to me as they did tho morning after I Tras marricd，＂

## EOttry：

## Contentment

With dazzing light tho Inril or Das Findles thu mountain＇s glitering econ； And purples o＇er with sonened hay
the violet in the valu below．
The shower and ders of Heaven are shel， Juke all gmbriciog love，upor

Ant
And the same Jtaker＇s guardisn eso
Thuows，with impartia！caro par all
The stricken Eparrow＇s hapicss tall．
Then learn，desponding child of man，
T）look with thankful heart abroat，
Whatoir thy portion，racst in Gon
For not to long state 13 given， Slore than to humble ralk and uame，
Tho peace．lapartiog smallo of licaren，
Whoso tenter morcy all may claim．
Exulling hyms of sounding pratso
blay has a saut among tho throng，
Whito of in green＂uatroduch srags＂
－Thy jath of lite is in tho day，
And mino a lowly sbsded road，
＂et each may bo tho appolntod way，
To lead the wanderer homo to God，

## eqtiscellautous．

## Laying Sawed Shingles，

A correspondent of the Jfaine Furmer gives the following directions for laying sawed shingles．
＂Almost all sawed shingles hare a rough side and a smooth one，i．e．，they are sarn from the bolt some－ what across the grain of the wood；the grains lapping one over the other on the sides of the shangles should be laid so that the water will run orer and not into them as it flows from the roof；in other words．lay them＂right side up with care．＂If perfectly dry． they should be luid about one－eighth of an inch apart． to gire them room to swell in wet weather ；and should have but one nail ith each shingle．Ilere is where most persons fuil．In nailing，it is ofen said that me cannot nail shingles too rell．．．－That＇s so；＂ but we can，and there is danger of nailing sawed shingles too much．Where they are nailed down too close they rotain moisture，and consequently rot sooner than they rould if one nail only were used in each shingle，which gives them a cbance to curl up a little，and admit the air to circulate on the under side．I hare had much experience，not only in Jaine，but in other States，in this matter of shing－ ling and I find that the most practical or experienced buidden prefer the above method of laying loosely all hind 1 of sawed shingles．To make the inost dur－ able roof with such materials，I would have it first corered with narrow boards，put about three inches apart，across the rafters，and then lay the shingles on them as I haro described，and I dombt not that it will pay to immerse them in lime water，as suggested by，Mr．Mansur．＂
－Pure paraffine is a good preserrative for the polished surface of jron and steel．The paraffine shoult be Trarmed，rubbed on，and then wiped of with a moollen rag．It will not change the colour whether bright or blue，and will prutect the sarface better than any varnish．
Whentodiric Pant．－Paint，to last long．shonld be put on early in vinter or spring，when it is colle and no dust dying．Paint put on in cold weather forms a body or coat upon the surface of the wood that be－ comes hard and resists meather，or an edge tool even， like slate．
Polisu for Saddins．－T．F．II．asky for a receipt for the best polish or gloss for saddles and bridles：－ We take the following from the 3ra rol．of＂The Field Library ：＂－Apply the albumen or white of an egg to the saddle，and give it plents of elborr－grease， with the aid of a piece of fannel．Tho samo appli－ cation to a nems saddle，tro or three times repeated， will produce that rich dark－bromn so much desired． Farmer（Scottish．）

## gldurtisements．

## PCRE－BRED STOCK FOR SALE：

TIUMAS GEY，brueder of theron and Ayrshitu Culte，Leicester
：Young devos coms，
3 ye．antivis If．IFt：RS（DEVON）
3 HBIFEIR CALVES，do．
$\because$ HTIIT Cal．VFS，do．
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Shat of the abora stock has twen bred from Provinctal prizo abunt．and is well worthy the atlenton of any ono ta waut of －い⿳亠二口斤

SYDESTLM FARS，
H：0 tt Twn miles from Onhawn Stallon，G．T．Ratiroat．
ITALIANBEES．

I am now l＇repared to fill Orders for
STOCES OF ITALIAN BEES．

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## PRICE OF STOCKS，

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## LEWIS＇LABOUR－SAVING CHURN



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Duncan＇s Improved Hay Elevator．
 1 Dominion if canada Gounty or Township liahles for Me maniacturvor tae abote fork may to obtinnd from the under s：${ }^{2}$ ned．

JAMEAS N．MANS，
lort Duver，Om．

## Pure Yorkshire Pigs For Sale．

A man andsow liar（inported）win three nant frubacial varoous azes，from four weehs to ctgit montis
dudress，C A．JORDISON；
－ $4.201 t$ Wellman＇s Comers，R．O．，C．Mastings
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TICK DESTROYER FOR SHEEP！

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Hachnolsis wanted in different parts of the Prorfoce in maunfac suro these thitls Inacnt rishts tor sile throughout canada． All letters to be snot［prepald］to Pibo Grovo Post Omce，to

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## TORONTO reterinary school！

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## On NOVEMBER 10th， 1867.

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## On JANUARY 8th， 1868.

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H．C THOMSOM．


## JONES \＆FAULKNER，

 （latte J Joncsis Ca．）Dairymen＇s Furnishing Store！

## ME．HLELS IN BUTTER AND CHEESE，

 No． 111 fenesee street，litea，X．X． datug turstrern


## montreal veternary scigol．

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The Board of hgriculture，province of queber．
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## CIDER MILLS．

## Si，lime G．uner should lee without one of <br> H．Sells＇New Patent Cider Mills．

 xrews，＂hath cruabes them jerfectly tine．Nlso，anew dis． －thatipe sut thit as fast av the apiples are mate thate the twllers
 order．IN capable of making the or six lilis．of cider jeredas． Whorheil ho hanit．and more if drisen by power 11 will grinit the bumber a we wat tome whelt makes a sataze of methint of the cader with ath small piresses Mat and l＇ress complete． With two aurlo．werghs jub ltos．

PRICE $\$ 30$ at our Shop in Vienma．
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## TO CHEESE FACTORIES！ <br> TIIE OXTAIII PACKING HOLSE

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LIBERAL CASII ADVANCES ON CIIEESE
consigned sor sale 10
Jons．T．DAVIEs，I．iterpool．
Ayply for further ioformation to JOHN T DAVIES，
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14．19．2t

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## Toronto Markels．

Cinada Farder＂Omce，0．t．12th， $1900^{\circ}$
Snece our last report there las been an wetive buchees it pron duce．Iriess in the primenal cavern mashets liave salsanced，
 lated bustuess
Four－The market has not been sery active，but prices bave steadily advaucet．So． 1 sujerthe has gradually adrauced，untal now $\$ 7$ ts freels baht，with howerer，ouly a light demand．
Wheat－The market hav Inen erelted and ：ethes．and has ad vanced fully 100 for spmus．and isk for fall Spring wheat is mow held in car lots at frum $\$ 10$ to $\$ 1 \mathbf{5} \mathbf{5}$ ，and changes hande thely at these Houns fall wheat har lots heldat $\$ 105$ to 5160 ， with sery listle oflernge oathe street markets the recelpte have
 ons sprang，\＄1 45 to \＄16！，lall $\$ 18010 \leq 160$
 boe to sise se the price palt．

 soc，ata cholsu lotssell fremle at that prace．Guthe street market the noepts have kren hight and jricer hace ：ahathed，atud now amperomisic to sus．


l＇orh－Tuere has been somu cuquiry for mos duriog the mast week，and a tew sales have been made at sis is lratuemess， nolhiug clolus，nominatly，$\$ 146010 \$ 15$
Thacon－Stucks are ligh；clty cured，none m the market，nom－

cu：Meats－The demand is rack；smoked hams，llye so liee，

mutter－A large quantity of store machel coman：m，bat for the
 ubs，13，a to lsc，rolls on then market， 3 Sc ．
Rard－littio doiug nominally，he to loc：
E：ggs－Xarict steady wall tair deutan for stipjing，selhog at lle tollycia shipghig lots．On tue stret，from lé to lopact path for suall lot：
Cheese－A fas demand at from ${ }^{21}$ \＆ c to 10 －for factory；datry anlectea
hopo－Firm，tint clas：hups scarce，prices mange from bive to jlay and stratc．－llay silling at from $\$ 12$ to $\$ 16$ ，stru at from $\$ 010 \$ 10$.
Wool－Selling at 24c．
Dressed Hogs－Begnohag to arrite pretty fredy，solingat from
 mbes ano zmis．
Green butchers＇lydes，maprected，busug at sc，rough， $\mathrm{Ca}_{2} \mathrm{C}$
 tite cattle maikit．
The market has beta welt sujpdeed wh cattle，but the amamat
 at the want of list class catlie．The dey sumber and tho pout utsi of the grass crop，is gaten as the cause ot the present scarchy of arst－class antmatx the lighi prices whath aro lihely to rul． this winter for becr，and tho cotuparatio lull f．rico of fived，should stock．At the lato fairs at Guelph and Fiona goent cattic were sery scarco，and intcudarg purchavers hat，an whreat many casco to retura hume unable to premure there suphics lit thes marhes shere havo alvo teen few haroe tramations in rittle，thu ammats
 The following aro the yuvtations per loo lha diesed weight，－list \＆ 560 catlo anriousiy $\$ 6$ engura scarkct for that quallis．
Sherp－ilate been very plentifol of hate with $H_{0}$ hit demand
 pork and poultry arricing：－


$\qquad$

Iambs have also dechined on account of the laroo consumphion of pork and yo


Cuters．－Ouls a fer offering，selling at from $\$ 5$ to $\$ 0$ cuch．
Venson－lias commenced to cutac in，and is cencralls sold by he carcas at from $3: 10 \$ \$$ for gund bucks，atud $\$ \leq 20$ it 50 for

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Hons，Dressed－liave beca arnvinz in coneticrable numbers． and unto trom is in si per 100 lbo dreand wotelat
Jlogs，lire－Une or two sales luad place at of per 100 its ive
wejght for mexs pork．
EIamilton Markets．Ort 8 －Fiall reheat per bushel．$\$ 1$



Inondion Mmpiceis，on s．－Fill ricat，st tj to sl 621 c，




Cuelph Markets，Urtobler 8 －Fiull wheut，per bush．$\$ 1$


Galt Markets．－foll weheat，per bushed，$\$ 1$ is 20 \＄1 $\mathbf{5 0}$, amber wheat per buxici，$\$ 132$ to $\$ 137 \mathrm{~h}$ ，apriog wheat jer
 lic tolstic
CIInton Marketn，Oct．8．－Fall rheat，$\$ 14510$ \＄1 85 ；

## Contents of this Number．

THE FIELD．l＇aos
Duncan＇s Improved Hive Flerator（sillicut）．

Tho Scwage of tounc



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