The Institute has attempted to obtain the best original sopy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.Coloured covers/
Couverture de couleur

Covers damaged/
Couverture endommagéeCovers restored and/or laminated/
Couverture restaurée et/ou pelliculéeCover title missing/
Le titre de couverture manqueColoured maps/
Cartes géographiques en couleur
Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur


Bound with other material/
Relié avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible. ces pages n'ont pas été filmées.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.


Coloured pages/
Pages de couleur


Pages damaged/
Pages endommagéesPages restored and/or laminated/
Pages restaurées et/ou pelliculées


Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquéesPages detached/
Pages détachées


Showthrough/
Transparence


Quality of print varies/
Qualité inégale de l'impression


Continuous pagination/
Pagination continue


Includes index(es)/
Comprend un (des) index
Title on header taken from:/
Le titre de l'en-tête provient:

$\square$
Title page of issue/
Page de titre de la livraison

$\square$
Caption of issue/
Titre de départ de la livraison

$\square$
Masthead/
Générique (périodiques) de la livraison

Additional comments:/
Wrinkled pages may film slightly out of focus.
Commentaires supplémentaires:

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.



Vol. I. No. 18.]
TORONTO, UPPER CANADA, OCTOBER 1, 1864.

[Postage Free.



Uuf tileta.
Manufacture and Application of Manure.
Mavy of the readerb of Tus Canada Faraer, as well as all agriculturists worthy of the name, will hare made every possible enquiry on the subject of artificial manures in the bope of Anding something that may be less troublesome and more efficacious than the produce of their own cattle-sbeds and barn-yards. The serious expense and the trouble of manuring with stable and farm.yard manure often tends to prevent its use, notrithstanding that the farmer may be fully aware of its importance. The carrying out of farm-yard manure seems in our climate alwars to come at the wrong time. In the winter it is imposaible to get at it for the snow and the frost. In the spring wo are fully engaged with our preparation of the land for spring crops, and in the secding of them. Midsummer finds us overwhelmed with haying and barrest; and the autumn with autumnal ploughings and preparations for the winter; so that the only time which can be certainly set apart for emptying the barn-gard, and other depositories of manure, is the short period after spring seeding, and before haying; and even that portion of time with our short-banded farmer is required for various other purposes.

These dificultics naturally divert attention to artificial manures. Could barn-yard. manure be got on the land as easily as plaster, the trouble would cease, and every man would bring all be could raise into uso ; but uniortunately this cannot be done, and the consequence is, that the manure is left in the yard, or is not collected and applied;-the result is, half crops and the cry that farming does not pay.
Now manuring is the soul of farming, and the cheapost, best and most effectual manure is that from the stable, byres and farm-jard. Bones, guano, superphosphates, plaster, lime and salts, of parious kinds, all possese separato and great rirtues, but barn-yard manure possesses all their virtues combinod, and many others which they do not possess, and unless large quantitics of it are made, collected, and put on the land, the rarm cust and will detoriorate. The farmer's thought by day and dream by night ought to be " manure, and how to ged it on the land." With the small stocks of animals raised on most Canadian farms, no farmer has enough of it, and if he neglocts what little he has, his crops will be light and ho will be, and continue to be, poor. There are not through-

Out Canada twenty farms where even what manure there is, is all sared,-the liquids are allowed to escape, and the solids are leached by the rain, and evaporated by the sun, until what is left and used is as poor and fusionless as possible. Can this not be amended? Will not people seo their own interests? We fear not while the collecting, obtaining and carrying out the manure is essentially such a nasty job. The farmer himself does net like it. The sons won't do it if thoy can belp it. The hired man dirties the house and his clothes, which are often to be washed in the bouse, and make it redolent of anything but pleasant perfunc. In cold weather due care of health will not admit of standing in the ret, and Canadian leather will not keep it out. In warm weather it is still more disagreeable, and according to modern anaitary ideas, possibly unhealthy. To make the job a palatable one, all this must be altered; the aid of machiners must be called in, both to load and unload; proper tanks nust be built to save the liquid manure, and to take advantage of all its virtues, and the solids and fluids must be mixed together.
Mschi has met these difficulties by reducing all to a watery state, and carrying it to the land through iron pipes. This is hopeless in Canada, but can we not concentrate it, and yel leave it sufficiently flaid to move by mechanical means? If the straw, hay, and all other fibrous food, before being either fed or bedded to the cattle, were cut into chaff, not only would it reduce sooner, but it would be easy to pump or remore from tanks by clevators of diferent construction moved by animal or steam power. Cannot ourcarts be made water-tignt, and then discharge their contents on the soil without other aid than the ploring of the horses over the ground? If tanks Werc formed, and all the results of the stable, bgres, pig.styes, \&e., carefully conducted to them, the contents could be moved as well in the rinter as the summer. The tanks being under ground and covered, the contents would never frecze, and might well be scattered orer the snow from such rebicies as ingenuity could construct ; and although doubtless some of the raluable portions would exhale into the air, yet fe may be sure that such manuring would be a vast deal better than none. Besides, if the ammonia were fixed by plaster. sulphuric neid, or other chemical means, it is norf an established fact, that all losses by exhalation might be done amay with. Even should this be objected to (though we orn we cannot see the objections), a very small expenso would construct manure pits in the fields sufficient to enable the contents of the tanks to be transferred during the wizter when otherrise the teams and men would be comparatirely idle.
One great adrantage of such a system would be the possibility of manuring growing crops of wheat, rye, and other winter crops, and also the meadows and pastures. No one can doubt that a feld of winter Wheat would be the better of such a dressing, or that the gicld of our meadows rould be doubled by adopting the course hinted at.

We throw ont these hints for aduption to provoke reflection and experiment on the part of those who feel the necessity for a change in the present syatem. Now everything is hurre-scurry in the groping season, and tuo often idleness and sloth in the winter season. Cattle are left to shiver and starre round straw and hay-stacks, and to help themselves to their food, when by being stabled not only would their manure pay for their keep, but the cattlo instead of becoming stunted and cramped rith the cold, would be groming and improving, and the profits of manuring would be sared instead of being wasted. Straw littered to animals during the winter will not rot till the follow. ing summer. If the straw were all first chaffed, or cut up small (as it might be by the use of a horsepower cutting box), and found its way with tho liquids of the stable to the tanks, it might be mored within a month, and be fertilizing the crops instead of becoming a nuisance round the home premises.
This matter is too important to be dismissed here; we shall resume it from time to time, and discuss it in its various bearings as space and the pressure of other topics will admit.

## More about Manure.

Is a recent issue the importance of palverizing manure before applying it to the soil, was urged in a short article entitled, "Fining Manure." The Country Genteman, not long since, had a capital editorial on the same subject, in which the common practice of spreading manure in lumps, or in anbroken masses of fibrous material, and ploughing it into the soil, in this state, is strongly reprobated. Our contemporary justly observes: "It requires but a moment's reflection to perceive that such a coarse conglomerate of large lumps of manure and large clods of carth, must be quite unfit for the fine, delicate, thread-like fibres constituting the rootlets of plante, to e:itend through in search of nourishment." Composting, mixing, thoroughly rotting, dc., are urged, and an excellent suggestion in reference to the use of straw for litter is given, viz.: that it be passed through a straw cutter before it is scattered as bedding. With a good cht-ting-lox, such as every farmer should have, this is less troublo than might at first be supposed, and will be amply repaid in the improved quality and speedice preparation of the manure.
Many farmers are so alive to tho importance of a supply of manure, that they coniract with botel keepers in adjacent towns and villages to bring in their straw, and receive in return the manure made. on the premises. So far well. Bul it is a common practioe to team the manure thus obtainel direct to the land, a course open to many objections, not the least of which is, that the seeds of all manner of weeds aro thus convoyod to the farin, in a stato which rendors it almost certain that they will germinate at onco, and stock the eoll with vegetable pests. We know a marbot gardener who pursued this policy
until his laud, thongh rich and fertile, became so full of reeds as to bafte erery effort to keep them down. All manure should thoronglily ferment and rot before beng put on the land, in order, anong obhes objects. that all noxious seeds may have their vit.lity destroyed.
Many intelligent and experienced farmers are adopting the plan of spreading their manure in the way of a top-dressing to land which has either been fall ploughed, or is intended to be loroken up in the spring. There is doubtless some loss of the rolatile portions of the manure lis connexion with this cuarec, but it is probably less than is generally supposed, u hile it is an immense advantage to have the soluble parts dissolved by the rains, and distributed as only rain can distribute them, among the particles of thisuil, by which they are alsorbed and held in sture as nourishment for growing crept. A thin coatang of minnare spread on winter nleat in the fall, has been fice when the ground is bure in wmter, and also in greatly inereasing the giehd.

## Farming and Rural Life in Canada, \&c.

## To the Elltor of Tus Casam Fasueat

Gin, - The letter in your last, writto n in 1 p ply to an Fingliah Grazing Farmer, lig a letter frum Gimacestershire, appears to require some explanation.
Of middle class emigrants, England probably furnishes the greatest proportion; of these, one por ton is composed of men of mature age, who in the words of the Times have beets " hit very hard at home," and seck to better their condition, or rather to maintain a position in a nes cuuntry, which, they find from impaired means, they cannot beep in an uld country. The other purtion consists of young men, who prefer emigrating, because they find some thing attractive in a colony in the way of freedom which they fançy is not appurtenant to English life, and they persuade themselves that the chances are better in a new cclony, than in England, where it is hard to get on. With both of these culonists or intending colonists, I have had a deal of correspondnce and intercourse subsequent to arrival in Canada.
I bare now an acquaintance who from an adverse Cbancery suit, bas brought out himself, wife, and two children, with perbaps from $£ 500$ to 5700 stg. He intends to purchase 100 acres of clear land in a district where the ordinary social ndrantages of church, post office, and market, are within easy reach-and " to be thoroughly independent," by which, I infer, that the family are to get along without help indours, and as little as possible out of dours.

The farm is to cost about \$2000, of which about half is to remain payable in annual instalments for hire years; and the stock and furniture is to cust
about $\$ 1000$ casb. As to no neighb.
as your correspondent infers same degree as himself, within three or four miles of his hou.e, who are cqual to any to be found in an ordinary English parish-fit associates for the clergyman, the medical man, and the lakyer, and if in England, they would be on friendly footing with the squire and his family, although not on terms of intimacy. To say that Canada has no good neighbours to ofer new settlers, hecause the various grades in English socirty are not
to be met with, is unjust, for experience convinces to be met with, is unjust, for experience conrinces
me that there is as much renuine society here as clsewhere, if less of polish there is also less of $:$ ulgarity, or of what Thackeray defines "as snobbery".
As to there being "no pleasure," surely there is daily pleasure in the occupation of a farmer, to say nothing of the winter evenings, when so many pleaby the merry sleighdrives, which of themselves cheer up the most dismal amongst us.

As to Fox hunting, there is certainly none, and yet bagged fox on the ice, but I cannot say the sport was rery good. I hare, howerer, two English friends now with me who flushed about 18 woodcocks in two hours, and brought down about 10 -and were surprised at the number of partridges or tree grouse, to
say nothing of the wood ducks and teal, or of the say nothing of the wood ducks and teal, or of the
black base and shad fish which vary occasionally our bill of fare.

For all these things the settler has no time or inclination, as other matters are more pressing, but sport is to be had and to be enjoged by thore who can use a gun; or have any idea of training a spaniel.
As to farming profts, they are not lixely to belong to either of the clases I refer to. Cheap rural life, with plenty of occupation, and as much of comfort as
can be procured for the smallest outlay. And I be lieve the middle-aged man who has been "dead beat" at home, and dues nut like to see his neighbours all su himeh. Detter off than humself. can lwe on a farm leve, (especially if he can give his farm a sulsidy in the shape of a small income, and can enjoy himsclf. llis wife is mure lihely to feel the hard work than himself, and she ought to lee provided with all the labour sasing implements of real use, as well as him-self-and one " help," in the shape of a gool, active girl, is more essential to her comfort than the firsb-rate plunghman is to the hoss." But they bad better get buth, and with ordinary care and the exercise of goud judginent, a comfurtable homestead wall gradualify be formed. Nolling, however, is so likely to lead to failure as to rely upun eacessio cropping to meed instalments. It is this which is the caluse of most of the sucond hard bins eneountered by farmers she have atready been hit hurd "athone. When a
man spends $\$$ ? per acte in plourhing s? fur secol, man spends $\$ 2$ per acre in ploughing, $\$ 2$ for secd,
and $\$ 2$ fur harsesting, and cultivates 10 acres, he tahers $\$ .10$ unt the chante of getting 20 bustely per acre, or netting sjetio. The odds are greally against his getting $\$ 360$. His $\leqslant 20$ are gone, and lis instaland is due, whithe more than the interest in hand to meet it. Now if he callivates 20 acres properly, or $1 ;$ acres. which he cunh do without extra help, eacept prerhips for drawing some manure, not frum the tunn. hecanse we presume that is unt of the lirst coup off 1.5 acres of worn unt land as good as if he had attempted to cultivate $\mathbf{4 0}$ acres, and get more grain.

Bees are nucial gatherings mure useful than urnamemal, and perhaps a threshing bee is nut the himl of socicty your correspondent would prefer; still they are unatroidable. And as my neighbours are in my debt-i. e., as to Bee work-l am going to get up a . Nack Bee for draing muck from the shamp to the upland, and I than jou will arree with me that the experiment is worth trying, and if these Bees become more common, the thresting " Bees will be a good deal cleaner, the " Dees ' will be less dirty, less like chimacy-sweepers than they now are their eyes and mouths less choked with thistle dust and down, and the man who has to carry away the grain will not have so easy a place, nor the threshing machine owner be so reluctant to thresh by the bushel as he now is. 1 hope, therefore, yun will put na plea for the old adage, " Muck is the Mother of
Money, - and there are few farms in Canada which hare not an abundance of muck of the best descrip ion, only requiring bees to collect it.
juurs truly,
SIMPLEX.

## Farm Work for October.

Is this delightful autumn weather, while the condi tion of the soil is so favourable for such emplogment and the atmosphere is so bracing to the nerve and muscle of mata and beast, be desire to call the attenion of vur readers to the importance, in an econo mical puint of view, of fall plotuhing. In this climate, wur secd ume is always short and hurried, and when se pustpone all our ploughing to the spring, with our best endeavours we are liable to fail in beiner up to ime in planting and sowing. The experience of al farmers who observe carefully the "reason why, has demonstrated that whatever work can be done in the fall to anticipate or shorten the labours of the spring, is so much clear gain, and the difference of a ingle week in the time of putting in a crop of Indian corn or other grain, has been proved by repeated experiment to be sometimes equal to the loss or gain f half the crop.
lie are well aware of the advantage to a growing crop, of turning under sward ground in May, after the grass has got a good start, and the fermentation of the grass and its roots in the soil is equal in its effects to a pretty good dressing of manure. But the present is an cxtraordinary acason, and in pastures not closely fed there is at this time a very good rowth of crass : and to turn the sod under now, the same beneficial effects will be realized, for there will be no considerable fermentation of the regetable matter in the soil until spring, and we gain largely n exposing it to the action of the frosts in winter, to say nothing of the saving of time when work is riving, and we are hurrging for our lives to get our clurn.
It is an old but very true saying that " Muck is the molber of meal," and we have great faith in the muck; but it is an arful waste of time and labour to cart muck into the barn-jard or hog-pen at this season, and cart it out again in the spring. It is a
much better way to draw out all the maure now on much better hay to draw out all the manure now on
hand to the place phere it will be wanted in the and to the place where it will be wanted in the muck cannot bo had, use sods, surface soil, the
scrapings of the roadside ditches; mingle all toge. ther, put on a good conting of lonin outside, and " let it sweat." Alter doing this very needful and protitable lathor, it is best to fill up the barn-yard and hog pen with new material from the neaiows and the ieltes, nul reserve from the butcher-knife swine enough to keep it nell mingled with the voidings of the cattle during the winter. By this means the manure leaps will be largely increased at a great saring of expense and labour.
At this season, pork can be made rery rapidly by judicious feeding. Hupsthrive lest ypun mixedfood and se should see to it that the swine intended fir slaughter do not have their appetites cloyed with an excess of Indian menl ; but that a due proportion of boiled putatues and pumpkins gues into the trough, tugether with all the sumr milk he can spare, and the stops from the bitchen. In feeding pumpkins it it well to remuve the seeds, for they produce an effect "pon the animal organization, which is unfavorabl" to man or heast, and although they contain much nutritise matter, its bencits are counteracted by elements of an opposite tendency.
The present is one of the best montles in the year for the manulacture of butter and cheese, but mileh cows are liable to fall of in the quantity of milk arter the first severe frosts. To guard against this, wo should be careful to have them warmly housed, and ted at night with all they can eat of good roisen or ssell-presers ed stalks. It is not poseible to obtain all the milk they are capablo of pielding, if they go to bed lungry. Every additional mouthful that Fe can persuade them to eat comes into the mill-pall wilh interest, or improves their condition, especinlly if bie provide salt for them whenever their appetites seem to demand it.
No prudent thrifty farmer will neglect his woon pile ; but this is emphatically a work for raing tays, and there will be enough of them between this time and " thanksgiving," which ought to be supplied in sawing and splitting a sufticiency of dry wood to keep the kitchen fire going without bellows, and to diffuse a cheerful warmith in the parlour fire-place or sit-ting-room store. It is a sign of a "shinless" farmer to see green wood only cut up from day to day, and the women folks trying to cool: dinner with sticks from which the summer's sun has not evapornted the moisture.

A warm barn sares a large per-centage of winter fodder; and while the weather is pleasant it is the time to batten up the holes, chinks, and crannies, if there are any. We hate to see a good milch cow discounting from two to three quarts a day from her actual milk-producing capacity, just because there is a board or a batten off the barn close to ner stall. Vow is the time to make all snug, and the hammer and nails should be freely used wherever there is occasion for them.
Young stock at pasture should now be carefully ooked after. Before the nights are severely cold, if in distant pastures, they should be brought home and comfortably housed. Some people say it "toughens" them to lie out in the cold until the severe weather sets in. Such a theory is against all reason and common sense. and those who advocate it ought to try the experiment a little white upon themselves. No animal can shiver with the cold without a liminution of its vital forces, and this involves a loss of fat and flesh. Don't believe any of the "toughening" nonsense, brother farmers, but see to it that your animals 0 into the barn in good condition if you would have hem keep casy and come ont in good condition in the spring.
Save the cornstalk I is a slovenly practice to leave them in the field as some farmers do. If not suitable for fodder, they should be cut up and go into the manure heap. But with a good cutter, unless the corn is left too long upon the field, a good use can be made of them by chopping fine, scalding with hot water, and mingling with Indian meal or shorts. Used in this way there is little waste, and they make a wholesome and palatable change in the inter dict.
Well-fatted poultry, it is well known, command a much better price than the lean, lank creatures, Whose skins and bones so often go to market. Corn,
oats, barley, and buckwheat, are all good materials oats, barley, and buckwheat, are all good materials
for making good poultry, but there is nothing which rill promote so rapid a growth of both fat and lean as grolund oats and water. Next come buckweat. potatocs and Indian meal. Poultry-raisers should bear in mind that the colour of the meat and legs makes a difference of two or three cents a pound in be price of poultry at all cits markets, and if they rish to obtain the utmost profit for their rearing, they will put the knife to or wring the neck off every black or blue-legged fowl upon their -premises this iall, and start anew. It is a bad policy to keep anything upon the tarm that is not the best of its kind, and blue-legged, black-meated poultry ought to be abolished by those who wonld secure the largest profit from their fowls.-Plozoman.

## The Crops of Canada.

HEPORTS OF STATION MASTERS ALONG TIIE LINE: OF TIIE GRANi, TRUNK RAILWAY.

## IAARVEGT REPORT FOR SLMMER OF 1864

## beypato avd gonemich mistrict

Cocstry or Bucce:-Fall wheat and spring wheat cunsiderably abure an average siehd. Barley is excellent. Oats rery guod. l'ease very good. Root crops a fair arerage.
Cotsity of Iltron.-Fall whent a fair average. Spring wheat has suffered frum drouth. Barley a good crop. Oats a fair average crop. Flax, a few acres sown for the first time in this county and promises well. Pease a fair arerage crop. The gield of root crops will be small. The hay crop in both counies is an average one.
Seaforin.-In the townships of Tuckersmith, Stanley, McKellop, Nay, Usborne, Morris, Gray, Norwich, and Turnbury, there are 46,585 acres of wheat sown, which will siclu au average of about 18 bushels per acre.
Carron Brook.-Spring wheat will gield at least 15 bushels per acre-but little fall wheat. Both are excellent samples, far superior to thuse of last seaon. Oats atcrage crop. Pease good. The gruwing of tiax is beginning to attract attention. Quantity ot grain likely to find its way to market from this district may be estimated at 70,000 bushels.
MirchsiL_-The grain crops are generally good and will average 18 or 20 bushels per aere. Fall wheat is excellent. Coarse grains good. Root crops not quite an arerage.
T'avistock.-Spring wheat over arerage crop and good sample. Fall wheat, barley and pease average crops. Oats under average crup. Rout crups a good gield. Potatoes very inferior.
Pritmenthe. Fall and spring wheat under average yield, good quality. 1'ease good. Oats and barley light. Rout crops promising.
Brastrond,-Crops are poor. Fall wheat 8 bushels per cere, good quality. Spring wheat 8 bushels per acre. Oats and pease good crop and good sample. Barley, good crop.
Caledonia.-Fall wheat about 10 bushuls per acre. Spring wheat 14 bushels per acre. Quality good. liarley 15 bushels per acre, good sample. Oats 18 bushels per acre, quality good. Pease 20 bushols per acre; quality good. Rootcrops almost a failure. Cavieid.-Pease, oats, barley, spring wheat and hay, very light crops. Fall wheat far below average crop. l'otatoes very light crops. Other roots a consplete failure.
Desivilite.-Fall and spring wheat helow average. Barley bad yied. Hay average crop. Pease poor crop. Small patches of flax grown.
Port Colborne.-Fall wheat nearly up to average. Spring grains are poor, not averaging more than half a crop. Rout crups have also serivusly suffered.
Foxt Exie.- Fall wheat below average, sample fair and full. Hay below average, sample good. Spring wheat, oats and barley, rery little sown and below average crop. P'ease, large breadth of land sown, quality and quantity light.
Bcrpaio.-Grain and root crops arejexticmely light.
detroit mivision.
Utica Plank.-Fall wheat 10 bushels per acre. Oats 7 bushels per acre. Corn and potatoes, average crop.
Morar Crevess.-Fall wheat, threc-fourths of an average. Spring wheat a little better. Darley crop light.
New Baitixome.-Fall anil spring whent, half a crop. Oats, 20 bushels to the acre; quality good. Potatoes, two-thirds crop. Fruit, fall crop. Beans motatoes, two-thirds crop. Fruit, fall crop.
Ridgewat.-Fall and spring what and coarse graiu aro far below the average. Potatoes, a third of a crop.
Port Hidros.-Fall and spring wheat in quality is very good, but will only yield abont 25 bushels to the acre. Coarse grains are very light. Root crops nearly a failure.
westers mivision.
Fonrest.-Grain crop is below an arerage yield per acre, but the increase of land planted will bring the total crop to an arerage yield. Quality of all grain is good. Root crops below an average.
Park Minis.-Wheat crop rather light, quality superior. Oats good. Pease fair crop aud good sample. Root crops below an average.
Ltcas:-Fall wheat above the arerage. Coarse grains very light. Root crops below the average. St. Mart's.-Fall and spring wheat slightly below the average. Sample is excellent. Coarse grains and roots much below the arerage.

Lownos:-Fall wheat on high land below an avet age, but that sown on low-lying lands is an excellent crop. Spring whent is a good sample and average yicld.
Shikispenme,-Fall whac heary and good. Spring wheat. good crop. Dats. barley. and pease will yiold well. Root crops promise well.
Hinumeno.-Fall wheat, good quality, below an average yield. Spring wheat, fair quaity, below an average yield. Barley, fair quality, below an averarerage y
ge yidd.
Banev:-Fall wheat is abown an arerage, and goon quality. Spring wheat is below an average, but quality is good. Uats and barley are below an averake crop. Flar is fair and gond crap. Rnot ernps aro a good arerage gideld.
Priteramen-Fall whert wiil arerage ahout 25 bushels per acre. Spring wheat. 20 bushels. Coarse grain. 30 bushels. Root crops, nbout 40 bushels.
Berisk:-Fall wheat excellent quality. but the yield will be light. Spring whent, good quality and fair average. Root crops below an average. Hay is exceedingly light.
bitsiat - spring wheat is below an arerage renp. Fall wheat and other grains a good crop.
Gresint--Fall wheal, arceage crop. of excellent quality. The seed wheat show was held here on the 26 th. and pronounced by the judges to be the beat for quality and quantity ever held in Guclph Spring wheat. below the average yield. Pease light. Oats will yield well. Bar!ey below an average. l'otatoes not plentiful. Turnips average.
Acros West.-Fali wheat. good sample, 20 hushels per acre. Spring wheat. good sample. is busbels per acre. Pease, 12 bushels per acre. Oats and barleg, 20 bushels per acre. Root crops good.

Live House.-Fall wheat, poor crop, midaling quality. Spring wheat. middling quality. Gond plump grain. Oats and pease average crop. Ront crop very inferior.
G:or.gerows:-All grain crops very poor. Hay very light crop. Turnips an average crop. The crops north of here are very good.

Norval_-The crops are far below an average. About six -illes north of this station, the crops in general are of an inferior quality. Flax yielded about $2 d$ tons ner acre.
Bbavitos.-In Chinguacousy. the wheat ropp is very bad. In the northern parts of the townships, the wheat is better, and in Caledon it will be a fair average.
Matron.-Fall and spring wheat very poor. Marley will average 25 bushels per acre, and a good sample. Uats fine crop and good sample. Pease a fair crop. IIay average crop. Root crops very poor.
lyfaros:-Fill wheat a failure, spring wheat none. Coarse grains and roots average.

## cemtrat, mivinos:

Tonosto. - Mats fair lease plentiful. Roots and pasturage very good. Wheat crop variable. The north has sufiered from dronth and fires. In the east gooil. West midge hav done much damage. In the townolip of York many farmers cut down their wheat as it ripened for fodder On the whate the crops will be above average.
scmanomo-Grain and ront crops helow average.
Ponr Uvios:-Fall and spring wheat good quality -rield is bushels per acre. Rye rery good; yield 30 bushels per acre. Barley very good, 30 bushels per acre. Lhoot cropa below arerage.
Frevciman's llay.-Fall wheataterage crop. Root crops helow average.
Drepin's Caber.-The wheat and coarse grain crops will be verg good, much better than last year. Barley poor. Root crops rery good.
Wutru:-Full wheat above average yich and good quality. Spring wheat below average. laarley above average. Oats good crop. Potatoes and carrots light crop. Turnips average crop. Hay average crop.
Usiraw. bushels per acre. Spring wheat good; yield twentyfive bushels per acre. Coarse grains average crop. Root crops, general appearance, promise 100 bushels per acre.
Bowxanvin.e.-Fall wheal, spring wheat and barley are above the average crop. Ilye, oats, pease and corn an average crop. Root crops not quite as good as last year.
Nefeastle.-Spring wheat good. Fall wheat good. Barley good. Oats poor. Rye below an average. Corn below an average. Peaso below average. Root crops below average.
Newtosimice.-Fall wheat, not the usual breadth sown, but quality good. Spring wheat an average crop. Barley and bay good. Oats light crop Potatoes small.

## cocity of tethrboro.

Spring and fall wheat below an arerage gield. Barley below arerage. lloot crops very poor.

## COCNTT OP RICTORIA.

Wheat average crops and very good quality. Coarse grains and root crops below average.

## colisty of dernam.

Spring and full wheat, average crop and good quality. Coarse grains and root crops below arerage. The export from this port cannot be expected this year to exceed 200,000 bushels wheat (including dour).
Cubolra. -Spring and fall wheat, good average crup. Coarse grains good crop. Farly potatocs good, late poor. May good crop. Root crops below average.
Ginartui.-Spring and fall wheat, good sample and average crup. Hay guod quality and average crop. Coarse grains and soot crops bolow average.
Cut.bunse.-Crups are of good quality and large yinld. lhoot crops not very good.
Briguton.-Crops in general are below an arerage. Crops are thuch better in the back country.
Tnestos.-Fall wheat will average 25 bushels per acre. Spring wheat 15 bushels. Rye and barley 20 bushels, adil prase 15 bushels. Rout crops below average.
Beid.sxilite.-Fall wheat yields about 25 bushels per acre. Spring wheat below average crop. Barey and pease below average. Rye average crop. Suts sery goud crop. Poots puor crup. llay good.
Sinsivesi ilite. - No fall wheatand root crop of any account. Spring wheat aud coarse grains will average about for 8 bushels per acre. Barley is only ikely to be shipped from here. -
Napasez.-Spring and fall wheat und rye below average, but good quality. Barley, pease, onts, corn, and potetoes are below arerage yield and of poor quality.
Eansestuwn.-Fall and spring wheat and coarse grains are below average crop. Root crops are an average yield.
Kisuston:- Fall and spring wheat about average crop. Oats, barley and pease a fair crop. Rye best fur many years. Root crops about an average. Hay excellent.
Gasasoqce. - May very light. Wheat, nearly an average crop, and of good quality. Pease and oata, very good crop. l'otatoes, very good crop.
Lassiowne.-Wheat good, but not much raised. Other crops very poor.
Malionstows.-May below an average. Rye, goud crop. Fall and spring wheat not sown. Uats and barley below an average. Straty yery short, and heads badly filled. lease very light. Root crops will be poor.
Lrs.-Spring wheat below average crop. Coarse grains, barley, rye, pease and oats above un average crop. There have been upwards of 300 acres of flax sown this season, which has not turned out sery well, a great deal has been mowed for seed only, the fibre being very poor.
Brockrinle.-Wheat, oats, and pease below an arerage crop. Barley and corn, a fair crop. Rye good. Hay light. Root crops look well. There are about 1,000 acres of flax sown. It will, however, not exceed half a crop. The quality is good.
Maithand.-All crops rery light and below average yield.
Prescotr.-Wheat, oats, barley, de., are below an average crop. Root crops beloy an ayerage.
Matilda.-Wheat, very little sown, and below an average jield. Barley, oats, pease, corn, and buckwheat, an average crop. lotatoes below average. Other root crops, not much grown.
Wilimaseburg.-All the crops are below an average yield: A considernble amount of flax has been raised, with the promise of fair returns.
Aclisville.-The wheat crop is better than last year. Coarse grains, below an average. Hay, a good crop. At Winchester and Finch, coarse grains are good. Root crops good.
Dickrson:s Lasdrig.-Wheat, very little sown; the quality, howerer, is good. Oats and barley, below an average ficld, but good quality. Pease an average crop.
Cornwall-The yield of wheat is the most plentiful which has been gathered for several years; the grain is full and sound. Pease, barley and-rye are abundant crops. IIay good.
Lavcaster.-The crops in this vicinity are very good. Of our principal crops, oats and barley, a much larger quandity has been planted, and now promises more than an average gield.
Coteal Jandino.-The crops are ncarly or quito equal to the last year, with the exception of barley, which will be a sbort crop.

St. Anse's.-Wheat an arerage crop.
Pr. Crame.-Wheat very good. Barleg, oxts and pease, very good. Potatoes also good, but very small.

## Horse Hay Forks.



Ayoso recently inrented labour-saring implements, the horse pitchfork deserves a high place. Lightening as it does one of the severest forms of outdoor toil, and expediting work at a vers busy scason of the jear, its valuo is great. l'ractically. this implement is but little known in Cannda. I curiosity is being excited in reference to it, and we have recoired sevoral letters of enquirs about it. By way of reply to them, wo gire herewith some illustrative cuts, which pretty fully expluin themselres, and will conrey a sufficlently clear idea of the principle and operation of this useful contrivance. The above cut represents IIalsted's Patent IIorse Hay Fork, one of the best in use. It weighs less than 18 lbs. It is so balanced that it will take up a grenter or lesser amount of hay without dribbhing it from the points of the tines. When power is applied. the points turn up, tbrowing the weight into the bend of the fork, rellering the strain upon the points, and lessening the leverage. The bate when throw a back earres for a bandle, being enticely out of the way When pitcting through a window, or in any phace Where the roonf is limited. It is made of iron and steel in the most durable manner, having no wooden head to split, and allow the tines to get loose.
J. Fleming \& Co., of this city, hare sone of these forks on exhibition and for sale.
The next cut illustrates Rundells Improved Hay Elerating Fork, invented and manufactured by I. J. Rundell \& Bro., Chicago, and very much used in the Western States. The Agures in the cut show it both in and out of gear. The operation of th machine is as follows: When the fork is loaded it is perfectly balanced by the position and crook of the shank.


The hoisting power is then applied, and the load elevated to the desired point; when this is achieped, the farmer pulls the disengaging cord, the catch is dutarhed. and the forte swing on the ryebolts, and lits the load slide off The position of the fork and the parts thereof is shown in the left hand figure. The fork can then be inserted into nnother mass of hay. the shank lowered down hy the fall an that the enteb honks nverit, and the proerss is wpat in at will The diengaging apparatio is secure, and has a square bold on the shank whon linisting set it works so casilf, that the operator, he lie whe her may, is able to disconnect it with one pull of the lifter finger This fork was on exhibition at the Provincial Show in Inmilton.

A gond dorrick is very much needed in all ontlivor operations with the horse pitchfork. We gave a cut of one in our issue of Sept. Ist, which is easily made. and answors a very good purpose. In neldstacking with the simple pole derrick, it is difficult to prevent the rising forkful from dragging on the sinte of the stack. In improvel derrick is shown in our nest cut. Whirh obiviates this completels it has been recenty patented in Illinois, and is well spoken of by those who hare tried it. It is of simple const:uction. and almost any farmer might make one for himself. In using it the crane part is swang round to cire load of hay, the forkful is mised perpendicularls rom the load, to any desired height to 25 fect, and by a simple contrivance of weight and lever attached, the crane is mate to swing aroumd over the stack or rick. deposthing the hay just where needed. without in any manner disturbing that al-

ready deposited. With any good fork it makes a very complete arrangement for stacking hay or strais.

Unhenithiness of Aitifichal, Mancmes.-Atention is called to this subject by a correspondent of the Mark Lane Fippress. He thinks that this is one canse of disease so prevalent this year in England among turnips. Ife cites the expressed opinions of sereral practical farmers of the injurious effects on sheep and cattle of soots cultivated by the use of artificial manures. A landable desire, he remarks, to increase the productions of the earth has led to the introduction of powerful manures, without sumiciently studying the laws of physiology.
Rest ox Wuest:-A correspondent of the American Institute Farmers' Club in Indiana, says that rust on wheat is caused by dew or gentle min, or fog, remaining on the statk or leaf of the plant, and the hot sun coming out immediately after and ly ating these minute drops and scalding the phant. lie proposes as a remedy, the disturbing (when there is no wind to do it for you) of the growing wheat, by a long line, with a man at each end, and drarging it over the top, bending cach staik orer, and causing the particles of water to collect and run down in drops.
How a Gbass Crop was Mape--II. Iewis stated at a meeting of the Litlle Fall Farmers' Club, N. I. that on 25 acres, he cuts grass enough to feed fify head of cattle. This is the result of underdraining and top-dressing, with sawdust used to absorb the liquid excrements of his stock. Ite regards the liquids as more raluable than the solids.The conclusion had been ar -red at by experiments. Stakes had been sel in pastures and meadows to note the effects of liquid and solid manures, and the growth of grass is in favour of liquid manures. Some few years since he cummenced using sawdist for the absorption of liquid manures, and spreading the compost on his grass lands, the soil responding in a remarkable manner. Latterly he had used the dust at the rate of sixty busbels per week. The manure is hauled upon the land tad spread out as crenly as poscilile with a ebown or fork; it is then brushed and completrly hrokin up and disiributad This duis on athd thacness of the manure is regarded as of pecalar adsantage, situce the phanis rapidls appropriat herir foul, ant it reaches a grater number. Abont hatf of the inninhe is milntrained with horse-shoe tile. the drains bering sunk three and onehalt feet decp. Un the portion of the meadow grows the largest grass.


## New Plants.

Tusas are many new thicgs continually being brought fersard, but most of them are wholls untried here, and consequently we can say but little about them. Let some of them give so great promise of being really raluablo additions to our present list, that we mention now some of those that strike us most facourably, in the hope that some of our enthusiastic and enterprizing cultirators will givo them a trial, and report their experience tbrough Tus Casida Faryiz.
The first we will mention is a new shrub that rill, it is boped, prove bardy in Canada, tho doublo Howered Deretzia Crenata. Its flowers are quite as double as those of the flowering almond, but larger, thickly set upon terminal spikes raised above the foliage. The exposed surface of the petals is a pure white, the under side rose-coloured. We have great confidence that this will prove a great acquisition.
Fortune's threc-coloured Saxifrago is a greenhouse plant, of very beautiful variegated folinge. The leaves are green, blotehed and deeply edged with White, and tipped with deep pink. The colours rary cery much ia shate in the sam: plant, according to the age of the leaveg. The leaf stalks are blood-red. It will be rery useful for hanging bnskets.
Spirea Callosa alloa, a white llowered varioty of Spirea Callosa. It is said to be very ornamental When planted alternately with the rose-coloured $S$. Callosa, and that it flowers as profusely as that variety. In as much as the rose-coloured one proves to be quite hardy here, there is crery reason to cxpect that the white variety will also endure our climate well.
A red howering locust trec-Robinia l'seud-acacia -bas also been obtained from the Lower Alps. The flowers are as fragrant as those of the white Howered variety. Planted with comnion well known locust these red flowering kind must produce a very pleasing effect.
A new Berberry, called Berberis Stenophylla, baring orange-coloured flowers in great profusion, which hang in racemes of from three to five together from the learaxils, and bearing purplish-black berrics about the size of currants. A very handsome shrub.

## To Destroy the Gooseberry Caterpillar.

A whiter in the Florist and Pomologist uses the hellebore which was recently recommended by oue of our correspondents in a different manner from the one that he suggests. His method is to take an ounce of hellebore powder and two ounces of powdered alum, dilute these first in a small quantity of water so as to get them thoroughly mixed, then add a gallon of water. Apply the mixture to the bushes eitber by wetting them with a syringe or waterpot orer tho upper surface of the leaves. The caterpillar will drop soon after feeding upon the leaves. The writer adds that having used il in this way for a number of years he has always found it most effectual, and that although the bellebore powder will destroy these pests when it is dusted ou dry, yet it can be better applied when thus diluted. The principal use of the alum is to cause the powder to adbere to tho leaves. This preparation will need to be applied again after any considerable shower of rain, unless the caterpillars have been all killed by the first application.

Patermbatios of Facit--At the Russian Court fruit is preserred by being packed in creosotized lime. The lime is slacked in water in which a little creosote has been dissolved, and 18 allowed 10 fall to powder. The bottom of a plain deal box is covered with it one ineh high, and over it is a sheet of paper. Upon this the fruit, well selected and cleansed, is arranged ; over this another sheet of paper, and on top of this another such stratum of prepared lime ; in the corners a little fincly-powdered charco 1 is put. The whole box is then filled in the same manner, and the well fltting lid nailed down. Fruit kept in this manner will remain intact at least one jear.

## The Whitesmith Gooseberry.

Hknewitit we give a superb eugrasing of the Whitesmith Gooseberry, one of the best Eingliah variesies for cultivation in this country. The necompanying cut faithfully represents, as to size and general appearance, a bough of the present gear's growth, obtainel from a garilen in the vicinity of this city. As commonly cultisated, it is rery seldom that such herrics as our artist has delineated are produced. Leit to an art of ha!f wild. s'ruggling erowth,
 qualily, are the only ro turns oltnined. Thegooseberries we have illus. trated reccived onlynrif mary good treatment, such as every gardener, whether profes. sional or anateur, ought to bustaw upon his plants. Had the bush been petted, and the frilt - suckled,' to usc a wellknown phrase, a much larger growth might $n o$ doubt bave been at ta in ed. Mundreds of cottinge gardeners inthe north of England make gooseberry growing a specialty, and very keen com-

mitigate it to some extent, but a really effectual remely is get to be discorered. Some parts of the country, and certain ecasons are more subject to this ailment than others. l'articular varietics appear more readily to fall a prey to it than others. The Whilesmith and Crown 13ob are, on the whole, rather less liable to this cuil than some other kinds, and this, in connexion with their excellence, renders them desirable sorts for cultivation among us. There are some eceiling gooseberries, natives of this country, which scem entircly proof against attack from mildew. The bee: wf these is Itoughon's Secelling. It is small in siz. and unty of moderate excellencens to tharour.
may also be adrantageously bottled for winter use, according to the following method, which we find highly recommended in the Illustrated Regtster of Rural Affairs:-
"The process is exceedingly simple and casy, no heat or cooking being required. Pick the berrica while get quite grcen, and before the ripening process has eren commenced. If done later, they rill not keep. Clip off the stem and calgx with sharp scissors, and than pack them inglass jars, shaking them down well, and pressing them closely, but not so as to crack or injure them. Then cork them, ren-ing-wax. place the bottles in a box in a cold cel$1 \mathrm{ar}, \mathrm{Im}$ bedded in dry samdist.They will be in fine order the following rinter."
They also keep nicely, and preserve theirnatural flaror, if scalded and partially swectened in the way fruit is prepared for preservation in selfescaling jars and cans. The leeping of fritt of all kinds on this lastnamed plan, has much to recommend it particularly on account of its retaining the natural taste and requiring but little sugar.
A wine
may also petitions occur at the local shows. It is astunishing to whata size this fruit may be forecd by the various devices known to the initiated. Among the smaller fruits, the gooseberry deservedly takes a high rank, but a scrious dillc.lly stands in the way of the larger Enghesh varieties in this country, viz., their extreme liability to mildew. This is a scrions drawback and formidable discouragement. The fruit sets well, but when it has mado about half its growth, a strange blight falls upon it, part of it drops off the bushes, and what is left ceases to grow, and is destroged ly a sort of living decay. This mildew is a somewhat mysterious nffection. Good culture, pruning, and mulching rill
but it is a profuse bearer, hardy, and seldom fails, whatever the character of the scason. We recommend our readers to plant the Houghton as their main dependence, but they should by all means add to it sume of the standard English varieties. They are well trorthy of being cultirated, if it be only to obtain occasionally such tempting clusters of berries as our engraving represents. Each berry is a mouthful, and there is hardly a more lascious fruit on the gardener's catalogue than a good, ripe, gooseberry. Gonseberrics are not only an excellent fruit for dessert, but they make a rich preserve, and are greatly prized as such by all housekeepers. They
be made from this frait, which is much commended for its rich and pecular flavour.

Tre Aneyone.-All will admit, who have evar seen the Anemone in bloom, that it is a most beautiful flower. The colours are exceedingly brilliant, and the markings, stripe8, and belts charming. Double and single are both desirable-the single the most brilliant in colour. The Anemone has not been grown generally, because it has been thought too tender to bear our winters; but we have never failed of a good show when roots were put out in the autumn in adry place and covered rith leaves.- Vick.

## The Culture of the Amaryllis.

M. Van llintri, the well-known cultuator of butbs, in his recent catalogur. gites the fulluwing particulars of his method if treating the Amaryihe
The bulles pass the winter on the shelf of a t.me prate greenhouse in the puts in whill thes hate grown, and during this receite no wither. At the beginning of spring, say in our C'anadian clomate alout the first of March, they are repotted in fresh earth, composerl only of decayed leafmold, mixed with a lit!le sand. The old soil is entirely removed, so that the tulbs a. quite naked. In toing this a piece of ro.l is used, by the aid of whieh the carth adhering to the roots is cleared away without injuring them. All rotten or broken roots are carefully: picked off, and the finger is passell under the hase of the bulb to clear away any dead parts hanging there the ohl loose skins being also carefully removed Thus dressed the bulls are repoted.
In repotting, the bottom of the pot should be furnished with broken pieces or putsherils, anut the top of the bulb being held with one hand, the roots hang. ing down into the pot, the carth should be dropped in gently round it un il all the roots are huried. The bult is only to be buried up to the neck, and the carih shoulil be only moderately beaped up. After a fer days the puta are placed in the proper temperature, enther moderate or hot, according to the time when it is desired that the planis shouli flower, but no water at all is given them until they slart, and cren then very little should be given at tirst. When the plant is growing with full vigour, then the wateriugs must be abundant.
After flowering, the plants with their puts should be plungeld, in the full sun, in garden soil or in whid tan. continuing the waterings so long as the vegeta tion is vigorous. but anerwards discontinuing them altogether, and allowing the plants only such moisture as falls from the sky. The pots are to be remored from the position as soon as the atmosphere prows conl. and they are then to be plared withuat receising a drop of water, on some elevated shelf of the greenhouse, where the leares will wither and the bulbo again become dried. In this way the plants are brourht into that state of rerose wilich is alto gether indispensable if it is desired that the fowers fibould create astonishment in the following scason.

## The Culture of the Perpetual Carnation.

The Perpefual Carnation, on account of its vigour, accommodates iteelf to all soils, but it prefers open manured ground, through which water will pass readily. The soil sbould be rather freely manured and the manure dug in deeply. The surface of the ground should be occasionally broken up with a hoe, especially after much rain, in order to break the crust, which hardens under the action of the ann They require water but seldom, but it shonld be given plentifully. In order to obtain strung plants, cuttings should be put in at the end of Apral or the heginning of May; they will then yield a very fine show.
To preserce the planis for several gears and to keep them dwarf, it is neerssary to shorten exch flower stalk, after the bloom is orer, to some two or three inches above its base. In this way there will be obtained crery year a great quantity uf flowers. To enjoy the flowers in wintor the planis shmild be put in a temperate green-house, giving them air as freely as possible. They ought to go intu the homere only when in flower or bud, because the buds restrain the ascending growth of the stalks If they ar. put into the homes before the flower stalks are provided with buts the siciks will lengthen out, and in the spring yield only sume misslapen fluwers. In the month of october the pirnts should her repoitcol wilh fresh earth, in pots of $\mathfrak{f}$-e or six inches diameter They afterwards require hading for eight or ton They afterwards reguire thading for eigho or ing they become liable to suffer injurg from frost Thnes plants which do not prodice flower lunds may lir wintered in a pit. which can be covered withat framo and mats during intense cole'. but it is necessary in arold too much monsture. T ufy will surviv, in the open ground, if it be well dra ned. hut in this case it is pradent to cower them with atras. in order in shel ter them from the sum, which is so fatal to plants when they have been frosted.-Gardener's Chronicle.


## Eht Gradut aud Graticr.

## The Cause of Inferior Stock,

Sox: farmers sell or slaughter their best stock of mares, ewes, or cows, and thus cut off all hope of any improrement at one blow. lors a heifer show a diapoaition to fatten casily" Slur is encouraged to feed until fat, and is then sold and eaten, white her fellows, who belong to the same breed with Pharaoh's lean kine, are kept for milk or rearing calsea, lueduge they are not and cannot be made fat for the butcher. Ilas a farmera sow-pig which becomes fat upon the feed on which the rest of his pigs are starving? IIe gives her over to the butcher's knife and pr pagntea from "land shads" and curn cribs.
llas le a fine, round, bright-cyed ewe! she wall be fat abont the time his half alled pork barrels are empty and she is stripped of her fair skin and fair proportions simply because she is worth the trouble of killing; and thus many of vur farmers perpetuate a breed of animals that are a disgrace to the country. They seem uneasy while they possess an animal that will hraw the attention of their neighbours or the butchers, and woe be to it if it put on a better appearance than its fellows, for from that time its doum is sealed.
To a improve breed of animals, it is by no means necessary to incur a great expense in bringing amimals from a distance. If a farmer will mourt lis borse and ride across the country some fine day, and riew the stock of his neighbours, he will soon percoire that there are abundant means of betterine his circumstances by a cross or exchange, at a slight cost. and hr by this plan of improving his judgment by comparison, and hoarding up experience for a future day that will be of more salue 20 him than the expense of many such excursions; and improvement once begun and persisted in for a short time, will produce such a correspnoling improvement in the mind and circumstances of the farmer as will insare its continuation, and richly reward all his labour and outlay.
Many of our farmera destros the hope of improving their stock by a syatem of false economy in the selection of the males from which they brom their stuck many do not keep a male from which to breed their horses or horned stock, nor is it necessary as one will do for a neighbourhood; but this one should be the best: and in order to kerp a gnod one, a good price must and should be rharged for bis services.-Am stock Journal.

## Raising the Calf,

a mint to chisty ond farmerks.

- Iss't she a beauty, father? Only see what a handsome little head she's got, and how fat she is. I dont believe theres another calf in tuwn that can beat her."
"That's just what I think, Nathan." replied the farmer, without raising his eyes from his ane-prind ing "She 11 do 10 kill by saturdag. Juel smith wants part of her. We might as well sell the whole for the head and pluc.. will be as mach as we shall want this hot weather.

Don't have her killed, father. Why can't we raise a calf as well as other people? Ford said when he was gelling the bay gesterday that it was a shame tu have all of old Brindtes calses hilled, for she was the best brerd of culny z aywhere about. Iua know what a pailful of milk she gave all last siunmer, and that you got the premium on her butter.
"Well, 1 know all that, boy, but she would cost rore than a hundred dollars be fore she nund bring a cent If anyhody is fuol enough to raise then. when they can buy them all ready for milk at $\$ 20$ to §30, let them do it. I'in two ula fur such calculations."

- l'erhaps it is so, lutit an't bear to have her killen. If you will let her live I will take all the care of her, and raise a bed of carrots for her to en next winter. Why, she shan't trouble you any."
"1 Your mother wants the milk riglt away. to make all the butier she ean this month, and if we keep lise calf she must have it tro or three weeks longer Then, what will joil do with her this summer?"
"( 1 , let her go in the pasture with the cows. She can ent a little clover now: I feal her with some ses. terday. Ford sail she would cat almost anything in a little while.
" It would make pretty work to have her min with lyer mother; she'd take all her milk each day.
licre Nathan was at a loss for another plea, when he happened to think of the little orehard, and proposed to puther in there. luat his father told hir she would eat the sour npples that fell of nad spoil her tecth. IIe tiunght lie conld put Bossy in her pen at night, and get up early enongh in the marning to pick up the apples. Suveral other objections were niscoll and meet with the same hoy earnestness, when his father told him to go to his work and he would sce about it. This "gee nbout it" gave the boy some encouragement. Ie thonglit it would be a good plan to get his mother on his side. When he went into the house ha found her so busy in sonp-making that all be could get from her was, "Just as your father thinks best about it; I shall want the rennet, for I am going to make checse in ing-days. The butter isn't worth much that's made then.: Here was aomething new for Nathan, who did not know what rennet was for, or where it came from. When bis mother told him it was the calrs stomach, he though it would be an casy matter to get one of some of the neighbours who never made cheesc. A few morn ings after this conversation, farmer Gaines asked his wife what she thought of letting Nathan raise the calf. Ller reply was, "You know berg nbout it father. I should like to have the boy gratifed, if it don't make you too much trouble." What an excel lent lesson this reply was to all dictatorial, unthinking wives, whose opinion must rull, or there will be a drizale or storm within and without.
Nathan heard and said nothing about llossy for a week, expecting every day that she wonld have her throat cut, loving her all the more with the fear of losing ber In the meantime the farmer had been re solving the subject in his mind, and came to the conclusion that if Leeping the calf would make an carly siser of his boy it would be worth while to try it, for the summer at least, when he thought he would get cnough of taking care of her, and be glad to have her sold in the fall to the drovers. no farmer could have been more pleased with a present of the best Devon or Ayrshire cow, or seen from her a better prospect of wealth, than did Xathan Gaines when his tather told him he might keep the calf, if he wouid take gnod care of her, and raise all the roots she wanted for nevt $"$ inter all this he promised to do, and angthing else that was desired. Never had he so highan opinion of his father before. This unexpect gd favour made obedience a rery easy matter. Every morning , Mathan was up bright and early to take rare of his'raf and look after his carrut bed, su as to be ready for any other work. Bossy soon became so much of a pet with the family that she never went hungry. Exen the farmer, who feared so much the cost of mising her, geetred to enjoy giving her an crtra bite as he went to feed his horses, and often Nathan founil bits of bread and other morsels from the table, which she liked very much. When autumn came the calf had done so well there was na danger of her being sold. Every one who saw her said she was the largest and best one of the season. Farme Gaines thought his boy had done enough more work to pay for all she ate, and if it took a ton of hay to kerp her through the winter, he bad no idea of bar ing luer sold. Nathens interest in the calf nerer fagged, neither dill he allow her to be any trouble to his father. We will pass oper three years of ber life, when we find young Brindle giving as much milk as her mother, and will soon take ber place in the barn for old Brindle's cow-life is almost over, and will in a jear or two be consigned to the beef-barrel.
Farmer Gaines has never regretted that the calfs iff was spared, for he has a botter cow than he conld find elsewl ere, and by gratifying Nathan in this act the boy had formed babits of carefuluess and indusiry which will be worth a fortune to him Farmere inen nothing by giring their boys a reasona in dollars and conts. -Ohio Farmer

To Clere Mamase Gadis-A Rural New Yorker correspondent writes:--Take dry white lead, hare it finc, put a bittle in a paper in your pockel, and when you stop your team. or several times during the day patitte of it on the galled places. This will soon heal.'


## Whe thairy.

## Cheese Factories.

## To he Filitor of Tiec Canama Faibera:

Str, - I pramised in a former communication, some renarks on the cheese factories, as they are terned, in the State of New York. In doing 80 I must confine myself to the general priaciples inrolved in the systen, more particularly as compared with private duirins; fur to enter on the minntis of practice, "ould require much space, even if I thought myself competent to the task.
In ing recent trip to the States I hant an opportunity of risitiog sereral checese facorices in the countices of Oneida and Utwego, and n fers of the best private dairics in the county of Herkimer; in the latter, American cheese making may be said to have originatell, as a special branch of agriculture. Herkimer cheese has long been celebrated for excellence of quality, and in no other part of the State have private dairies to such superiority and systematic management. It was not in this county, howerer, that this factory system took its rise, and private dairies still prevail almost exclusirely. Herkimer checse continues to command the highest prices, from the pecullar excellence of its herds and pastures, nnd the great pains bestowed on this department of rural cconomy. I was told, howerer, by some of the best dairymen, that if the factory system was thoroughly introduced, they had little doult that in time it would be generally accepted.
About trelre years since Mr. Willinme, of Oneida county, conceived the idea of applying the principle of co-operation and division of labonr. Which has proved so eminently successfiul in manufacturing pursuits. to the department of the dairy. and he succeeded in persuading a number of neighbouring farmers to send their milk to a coramon depot, where the whole might be converted into cheese upon more cconomical and systematical principles than the best regulated prirate dairies conld command. This was the first cheese factory established in the States, and it is now said that the county of Uneida alone, has about forty of such establishments, the number of corss to each rarying from three hundred to one thousand. In other counties the system has made a great advance, and 1 am told that it is altracting attention in the different states, where the dairy forms a prominent feature of their agriculture.
Now what are the principles and adrantages inrolved in these checse factories? First, thereare the usual benefits arising from associated capital and labour on a definite plan; and it is maintained that a better and cheaper article, far more uniform in quality, is made in this way, than can be produced in small private dairies. Cheese making is a delicate, I may almost say scientific operation, requiring a room or building properly situated and arranged, with the most approved apparatus and appliances, with no small amount of experience and skill to conduct the operations rith economy and success. Now it is manifest that in most private dairies, even of the best description, some of these conditions will be ocensionally absent. Sickness, difficulty of getting sufficient and reliable help, the necessity sometimes occurring for withdrawing altention and labour from the dairy, to epecial emergencies of the farm; these and other defects incidental to prirate establishments, the factory system, in a great measure, remedies. It has been found, too, in the dairy districts of N. Y., that the constant labour and care imposed on females hare most injurionsly affected their health. Some of the operations involved in checse making require the operations involved in cucese making require the
strength of men, but in ordinary farm dairies they are usually inposed on romen, to their evident discomfort and detriment. Now, yopon the modern plan, some half dozen persons of both sexes are capable of making into cheese the milk of a thousand corrs, thus
reliering the female portion of the farmers family from what is not unfrequently felt to be exhanstive and injurious labour.
Checse factory associations nay be organized by ten, twenty, or more firmers, according to the number of cows kept fiy ench, living within a convenient distance of each other. It is Hsunal for some one or more to erect the necessary intililing, and furnish the utensils and hanils to carry on the operation of making the checse at a fixed rate. That rate is one cent a pound; an amount which, in the present btate of American flanaces, and the numeh increased price of clieese, is thouglit to be insumeient. The whey usually belongs to owners of the factory, and is feid to pigs and occasionally to cows. Farmers connected with the factory senul in their milk at regular hours, morning and erening, which is either measured or weighed, and the result carcfully entered into a book. sometimes one or two persons will contract with the rest to deliyer all the milk nt a fixed rate. The milk from the different dairies is put is:- one or more vats, and a board of directors or com. uttee, appointel by the membera, decide at regula: interralo from the returpg of milk, and the amount of cheese obstained, the proportion belonging to each. The checese, anter athe agents of wholesale dealers, nnd the amount
to paid to each member. Dealers prefer factory cheese to that of private dairies, ns they consider it on the Whole to be of better and more uniform quality, and therefore offer a higher price. Besides both time and expense are sared to dealers or their agents, in purchasing large quantities at fuctories, instead of hating different and distant markets. These are some of the principal adrantages of the factory system, which is steadily, if not rapidly, making its way in the dairy districts.
The only objections which I heard may be summarily stated. A common one, so often appliced against all improrements, a disinclination to clange old ways and habits. This, however, does not apperar to apply to the American people in any thing like the same degree as it dues to the older ceonntries of Europe. The milk of some daries may be aloore or below the ordinary slamdard, arising from diferences in pasture, breeds of cows, de. Ind in some instances the milk may arrise at the factory tainted or tou far ncadified. from want of pruper cleanliness in
the utensils in which it is convesed. In other cases, which are but rare, it is believed actual adulteration aas been made by adding water, icc: ; matters not athays admuting of ready detection. Uf course such milk affects injurionsly the common stock, hoth as to the quantity and guality of the cheese which it yields, and gires rise to feelings and disputes atot in harmony with the well working of the institution. It is ditfichlt to see how some of these ubjections can be
fully met. but hy cxeluding persons from the factory who uilfully commit frand, or disregard those salutary conditions so essential to the weffare of the whole buly of stockhollers. I am inclined to think, however, that in practice these difficulties but marely occur. The Superintendent of the works has e, ery motive to use his best energies for the interests of the Association, his professional character and the status of his establishment very materially depend upon the value of the article produced.
It is stated that cheese making cannot be advantageously carried on as a specialty in factorics, with less than tou cows; 1 found many of them with from five to seven and eight hundred. The expense of making checse diminishes somewhat in proportion to the increase of the amount of business. The buildings need not be expensive ; they are made of wood in the ordinary way of farm structures. I saw none with basements-underground places are not con-
sidered farourable for curing cheese. The vats most approved of are those made loy lalph, \& Co., Etica, approved of are those made liy admit the uniform warming of the milk with an extrordinary small quantity of fuel. The presses which I saw, were of the simplest claracter, consisting of a short iron screw, with wooden frame and platform. A copious supply of pure spring water must be regarded as one of the essential conditions of a factory site; and a running stream is preferable to a well. The buildings and necessary utensils for a dairy consisting of fire or six bundred cows, might probably be erected for about ten or twelve hundred dollars.
The question arises conld cheese factorics be promably introduced into Canada? Without attempting ablogmatical decision, 1 mey express myself ravour eastern parts of Canada, where the soil is naturally ailapted to grass and grazing, and where cheese is to some extent already made, the system is certainly entitled to full and fasourable consideration. have a few excellent private dairies on a pretty large scale in the l'rovince, that produce a good article, but on the whole but little can be said in favour,
either of the quantity or the quality of our checese. Instead of being importers of this article there appears no good reason thy ree should not he extensire erporters. It is to be hoped that such of our farmets as may be farourably situated for carrying out this enterprize, will give it an carncst and impartial consideration.
I must drawi in a close this, prohaps alrealy too long an epistic. lyy observing that ancr paseing through parls of tho Stater of New York, Jerses, Delaware, Marglanil, and P'ennsylvania, 1 returned with a leep impression of the rast resources of thin portion of the American Union. In aach of these States are to be seen farms and gardens that will not unfavourably compare with the best portions of Europe. The material progress has been truly wonderful. Let us hope and pray for a speeds and enduring peace, and that a people so abunilantly blessed by Providence, may enter upon a new and uninterruptel career of prosparity and happinces.

Yours truly,
GEO. BUCKLAND.
Unirersity:College, Sept. 21, 1864.

## \$hety Thusbaudy.

## The Shepherd's Dog.

Is all mountain sheep farms the shepherd's dog acts a very prominent part, and especially on the rocky munntans of Cumberlanil, where travelling is dimfenlt at all times, even to the ironshod shepherd. but most so in frost and snow, When hundreds of acres which the shepherd ought idaily to inspect, may be so slippery and dangerous as to greutly limit his excarsons. Though at all times the dog's services are indispensible. on such emergencies he will sometimes do the work of trenty persons in patiently bringung down shcep from places almost inaccessiblo to man under any condition.
The Cumberland sheep dog is in no way deficient in intelligence and sugacity, but may compete with his compeers of any country, and thongh the selling price of a dus of ordinary qualifications does not ranke higher than $2 u s$. to 40 ., there are many shepberits who would make any sacrifice short of life rathrr than part with a good dog at any price. One or more shecp. and even a colv, hare been oftered anil refused. In fact, first-rate shecp-logs are not to be bought. They may be reared or bought young and may turn out well, but no shepherd of standing will dispos of lis favcirite on any terms; even when will dispos, of his arcirite on any terms; even when
broken down by adversity, the dog is the last chattle -he storms of life compel a feeling man to part with, and then not without evident sorrow. Well might a popular writer say-" Without the shepherd's dog the mountanous land in England and Scotiand would not be worth a sixpence." It wonld require more bands to manage a floch of sheep, gather them from the hills, force them into houses and folds and drive them to market. than the profits of the whole would be capable of maintaining. And though this may be more rut as regards the wild and headstrong black. faced sheep of the Scottish mountains, it is also cor rect as npplied to our own; and most of the dificulties of gathering and driving will ranish in the pre sence of a really good dog. The sheep seem to know, as if by instinct, hefore they have been many minutes under the charge of such a dog, that all their efforts to break away are fruitleas, lit the flock be ever so wild and numerons, or the field of operations ever so rugged and unfavourable. It is surprising to observe what cunning a drove of pure Herd wicks will somewhat cunning a drove of pure ieramicks will some-
times exhibit in their eforts to bafle an ill-trained times
dog.

While the driving or gathering ground is farourable to the dog, all goess on well enough; but no sooner to the wily creatures discorer a suitable opportunity than perhaps one or two break off on one side, and while the dog attempts to head them, others steal away in different directions on the other side; while the $\operatorname{dog}$ attends to them, the mischief incrases, and nearly the whole flock will disperse, to the utter discomfiture and amazement of the dog; but, if at this juncture the tactics of a clerer dog are brought to bear on the flock, in an astonishing short period the whole of them will be subdued and brought into order, and may be driven rithout difficulty so long as the master spirit is within call. Somedogshave the faculty of discorering sheep when buried to a considerable depth under the snow, as happens occasionally. A dog possessed of this quality is of immediate value, equal to the amount of sheep he releases or marks. A single dog lans been known to point out unerringly the locality of miny scores of drifted sheep in a day,
even when several of them were at a depth below the reach of the shepherd's snow-pole.-English Agricultural Journal.

## Corrcspondeute.

Sotice to Corbestonobats.-Wio have receired a number of letters. which, in consequence of tio large bsorption of our space by Exhibition matters, are mavoidnbly lail over. Correspondemts will please ..cerpt our acknowledgments for their farours, and excrcise patience in regard to the delay in their ap. pearance.

Erbata- Tie have been reymested by Mr. Sheriff Treadsell. of l. Orignal. to correct two errors which crept into $t$ is crismunication, under the " Weather and Crops" hrading, in our last. Instend of "Sills of Vonkluck $1 \mathrm{H}, \mathrm{l}$, real "Wells of Vanklerk Hill;" and instend of " rge sced," read " riga sced."
Thees Cinfontity of Celtivation-A eubscriber. writing frem Derby, wishee to know whether his pear trees, which grow in the form of a will thorn, have leares like a plum and send up sprouts from the roots at a distance of some yards from the trees, are worth orchard room. Wo should say-decidedly not
Iniroved Cow-Maxing Machine.-A correspondent says:-" Ilaring noticed your just atrictures upon the inadequacy of the cow-milking macline, 1 was led to seek a remedy in its improvement. If they will be acceptable, I will send iny suggestions upon the improvement of the machine for your nextisule." Asa.-Certainly ; we shall beglad to receive them.

Tin: Sort Marze.- 1 correspondent snys :-" As a farmer, I lore the soft maple above all the treed of the forest. Towards the close of winter its swelling bud gives me the frat inkling that apring is coming and I get my plongh reals, and now as summer iending, its changed leaf admonishes me that winter is near, and that fall work should be commencel at once."
The Dife Exchanezd for Tue Canaba Fineri" J. M.," of Jolesworth, selus the name of a ners subscriber to Tur Casada Faruer, with $\$ 1$ enclosed. and adds:-" leter has girwn up smoking, so that he may be able to pay for Tus: Farsin, and I hope that many more will follow his example, so that they may get your valuable and much-needed publication. I am glad to see Tue Farmen taking a firmb-rate posi tion among agriculture journals."

Cumes Temir Tors.-" F. P." of Owen Somd. asks, "Can you or any of your numerous subscribers inform me of any plan to cure turnip tops so as to make them arailable for winter feed ?"

Avs.-We are not aware of any such method having been succesafully practiced. Turnip tops are of such a succuleat nature that we should harilly think it practicable to cure them for winter use. They it practicable to cure them for winter
make capital food for the manure heap.

Dran Tools.-"J. S.," of Edniskillen, enquires where a ect of draining tools can be bought, and at what price?

Axs.--Hessrs. Rice Lewis \& Son. J B. Ryan. and. we presume, other hardrare merchants in this city keep then fur sale. The price varies according to quality, leagth and width of blade, de. A common ect of five, viz, two spades, two scoops, (round and square-edged, and a pipe hook, will cost ahout $\$ 0.50$.

Mildew on Tue Grape.-" B.L.," of Cobourg. says. -" We find our grapes mildered, both leaf and fruit. in the early part of July. Clinton very mucb. Delaware slightly, Diana slightly, Concord not affected. Is this a general thing, or only in certain localities?"
Axs.-Grape vines of all kinds are more or anhect to diseases of different kinds, to mildew among the rest. Some rarieties seem to be more disposed to nildew than others. All foreign grapes are very subfect to the mildew. In some seasons our hardy grappe -uffer more from this cause than at other times; and it is worse in some localities than in others. Particuirly does it oceur when the soil is not well drained trly does it orcur when the sor
ind the roots of the vine are krpt too wet and cold grape vines are particularis sensitive to cold, wet fect. The remedies are to plant onlg in thoroughly
drained soil. and if the milder then makes its appearance to dust the rines tharoughly with eulphur in the same manner as is practiced with grapes under glass.
Mank Lice on Aprie Turzs.-"A Reader" writes from Collingwood Township:-"I mend you $n$ simple and rfiectial cure for bark-lice on apple trecs. Jly tress were terribly infested with lice, so much so that many of the branches were killed and nome of the trees seemed in bo dying. Just hefore tha buds buret into leaf, about the latte- part of May last, I gave the trees a thotough pruning, and then gave them a good coating all over of crude shale oll, procured from the factory in this township. The oil was applicd with a paint brash. The seale lice have been completely destroyed, and the trees are now bealthy and fourishir.g. with an abumance of fruit. Crude oil from the wells at Linniskillen being similar to shate oil, wonld, I have no doubt, do equalls well.

## 

TORONTO, EPIPER CANADA, OCT. 1, 1864.

## Exhibition of the Royal Agricultural Society of Ireland.

Tus Show of this National Socicty was heh at Sligo luring the hast week of August, and from the elaborate report of the Irish Furmers' Gatette it appenrs to have been not equal to most of its predecessors. Thi is accomed for from the fact that Sligo has hitherto been considered as inconveniently situated fur a koyal show, bit now in consequence of the completion of the Great Midland Mailway, the more serinus difteuties bave been overcome. It is believed that the holding of this first Show of the Royal, at Sligo, will excite amoner the farmers an emulation to improve, and that the agrienlture of a large district will thereby become advanced. Durha bs in point of quality were under par, but the Herefords as as class. were cuperior, as were also some of the monntain breods. In sherp. the Cotswolds and stropshire down axcelled. The horees comprised many useful animal-, particularly those for farming purposes. A great and cominums furcign demand for lriwh horses tends to keep the country scarce of fime amimals. In all the principal departments of husbandry, these exhihitions indicate jrogressive improrement.

## The Provincial Exhibition.

Ofr great yearly agricultural and mechanical show has again been theld, and we letain this number of Tins Casaba Fabsere a little, in order to furnish our readers with all actessible information respecting the important event of the past week, at the carliest moment possible. This is so fast an age, and news is circulated by the daily and weekly press with such celerity, that tu defer all account of the Exhibition until our next, rould be to risk its becoming, with many at least, an "old ytory."
The Provincial Exhibition opened at Hamilton on Tuesday last, under most favourable auspires, and eresy thing indicated that it would prove a complete sureress Its location the preernt ycar, was a most convenient oue for the great mass of exhbitors, and the entries in the Secretarg's books gave decisive intimation of their intention to be present in great fores At the opening of the Exhibition on Tuesday morning, the list was nut quite complete, get the number of eatries had reached a grand total of 6.138. At the same stage of last year's Exhibition in Kingston, the entries were only 4,338 , that is to say, 1,800 leas than the present year at the recent New York State Fair, the number of entries in all departments was 2.209. (Jur entries of live stock alone were nearly up to that figure, being no less than 2.194. Some eighty additional entries were made during the
forenoon of Tuestay, and the complete list at length stood as follows:-

| Hlood harses. . . . . . . . . . . . . . . . . . . . . . . . . . | 15 |
| :---: | :---: |
| Igricultural horses | 92 |
| hoad or cartiago do | 268 |
| Heary draught do.. | 11 |
| Durham catto. | 142 |
| Deron do | 140 |
| Hereford do | 25 |
| Ayrshire do | 69 |
| Galloway do | 71 |
| Angus do | 12 |
| Grado do | 33 |
| Fat and working cattle | 9 |
| Leicester alir-p | 240 |
| Cotswold da | 99 |
| L.ong-wonlled do of other pure breeds | 2 |
| South Downs do... | 115 |
| Shropshire Dow | 17 |
| Cheviot sleep | 29 |
| Medium-woolled do of other pure breds.. | 25 |
| Spanish Merino do........................... | 31 |
| Freach Merino do. | 67 |
| Fine-woolles do of other pure breeds. | 18 |
| Fitatherp | 37 |
| 1 orkshire pigs. | 26 |
| Large Berkshire do | 20 |
| Other large lired do | 15 |
| Suffolk do | 14 |
| Inprored lierkshire do | 7 |
| Other small beed do. | 28 |
| Pobltry . | 284 |
| Grains. feld seeds, hops, ict | 580 |
| Rooks, hoed ficld crops, flax, dic. | 388 |
|  | 88 |
| Garden vegetables. | 459 |
| Plants and tlowers | 147 |
| Dairy products. honey, bacon, de | 160 |
| Igrichltural implements potrer | 172 |
| Do a do hand ... | 132 9 |
| Plonghing match. . . ... |  |
| Cabitet ware and other wood manufactures. | 39 |
| Carringes and aleigha, and parts thereof | 65 |
| Chemical manufacturis and preparations |  |
| Decorative and useful arts | 79 |
| Fine arts. | 278 |
| Groceries and provisions | 59 |
| i, adies' work | 371 |
| Machinery, castings, and tools |  |
| Metal work, including stores. | 60 |
| Miscellameons .. . | 95 |
| Musical instruments |  |
| Natural history | 10 |
| Papar, printing, and beokbindin. |  |
| Saddles, leather, de. |  |
| Shoe and bootmakers' work | 63 |
| Woollen, fax, and cotton goods, dic | 140 |
| Foreign maunfactures. | 27 |

Total . . . ......... .................... $\overline{6,220}$
We append a comparative statement of the number of entries last year und this year, in a more condensed form:-


For the Canada Company's prize for the best 25 bushels of full wheat, there were 17 entries. Of these 6 were from Wentworth, 3 from Northumberland, 2 from Wellington, and 1 each from the Counties of Simcoe, Hastings, IIalton, Waterloo, Ontario and Brant.
For the prizes for the best two bushels of white Winter wheat, there were 41 entrics. Of these 13 were from Wentworth, 3 from Waterloo, 3 from Wellington, 3 from No thumberland, 2 from Haldimand, 2 from Brani, 2 from Halton, 2 from Norfolk, 2 from Prince Edward, and 1 each from the Counties of Simeoe, Hastings, Oxford, Huron, Ontario and Lincoln.
For the prizes for the best two busbels of red winter wheat thare were 13 entries, viz., 7 from Wentworth, 2 from Haldimand, and 1 each from Hastings, Welland, Priace Edward and Lincoln.
For the prizes for the best two bushels of Fife spring wheat there were 21 entrics. Of these 4 were from Wentworth, 4 from Ontario, 3 from Northumber-

Ind, 2 from York, and 1 aach from Lind ${ }^{\wedge}$ In, Malton, Wollington, Prince Firlward, Middlesex, Simeoe, Lambton and l'erth.
For the prizes for the best two buahels club epring wheat there were 10 entries, viz, 2 from Wentworth, 3 fröm Northumberland, anil 1 cach from IIalton, Wellington, Prince Elmard, Simcoc and Ontario.
For the best tro buahels of spring wheat of any variety there were 11 entrics, ving 4 from Wentworth,
3 from Ontario, and 1 cach from IIalton, Northumberland, Middlesex and l'eel.

## grocidos asd dehbinos.

The exhibition grounds are so curiousls ahaped that it is almost imposible to give an intelligible deceription of them rithout the ald of a diagram. We correet general idea will be gained.


No. 1, entrance gate; 2, exbibition building; 3, carriage sheds; 4 and 5 , sbeep pens ; 6 and 7 , cattle stalls ; 8 , pire pens 9 and 10 , cattle stalls; 11, horse boxes; 12, horse ring; 13 , poultry.
The ground consists of two oblongs, the width running from east to west, the levgth from north to south. The eastern ollong belongs to the city, and covers about ten acres. The other joins its north-western corner, and is of equal extent; the two together
making about twenty acres. Southward the fand declines gently towards the mountain, which extends round to the western side. No city in the Province is poesessed of a better site for the Exhibition.

Entering by the main gate (No. 1) and turning to the left, we come first to a long row of catile stalls, numbering about 50 , open in front, each capable of containing several large animala. They are substantially constructed, nicely white washed, and look clean and neat. Ileyond them, on the same side, are three sul)stantial stables in a row, down the centre of which runs a wide corridor, with stalls on each side. The total length of the stables and of the cattle aheds on this side is about 900 feet. The south side, and part
of the north side, is occupied by box stables (11) for stud horses, 94 in all. Passing by these we arrive at a second row of cattle sheds of the same size as those on the eastern side, twenty in all. Northward from these are two double rows of stalls ( 6 and 7 ), containing 38 compartments, which have been erected for the present Exhibition. West of these again, and running from the south, northward along the boundary fence, are 132 houble pig stalls ( 8 ), having a total length of 390 feet, by 16 feet in width. On the north side are three other long buildinge. The first and largest ( 5 ), 400 feet long, by 16 feet wide, contains 100 covered sheep pens; the second (4), 200 feet long, by 16 feet wide, contains 50 pens, also for sheep; the third is a shed 156 feet long by 24 wide, devoted to carriages, heavy machinery and the like. East of these again are the poultry pess. The shed is 108 fect long by 18 fect wide, and contains 192 coops, 96 on each side. Besides all these, a hay barn has been provided in a very convenient situation. On the north of the Palace, between it and the horse ring, a large tent was erected, where, under the superintendence of Mr. James Fleming, the roots and vege tables were arranged for exhibition.
The "Crystal Palace" stands at the jorthern extremity of the grounds, and presents : very effective appearance. Its primary form is inat of a Greek cross, but the ground plan takes the shape of an octagon, four sides of which are made by the sides of the cross, and the other four sides by walls connecting its extreme points. The building is two stories in height, the upper story preserving the cross form, and giving to the gallery four distinct compartments, corresponding to the four sections of the cross. Its extreme length is 171 fect and its width the same. The ground area comprises a space of 36,000 feet. feet to the line of the eaves. In the centre, at the intersection of the cross, is an octagonal space 76 foet in diameter, and haring a height of 54 feet to the roof, which is surmounted by a cupola and dome. The interior of the building has been thoroughly repainted and otherwise decorated. The galleries are each 54 feet wide by 64 feet in length, and are con-
nected one with the other by a balustrade running
round the centre octagon. The triangular spacos formed by the lines drawn from the extremitios of
the arms of the cross to complete the octagon of the ground floor, are one story in height, and coverel with flat tin roofs. The architect of the building was Mr. A. If. 1lill, of Ilamilton; its original cost was aboat $\$ 15,0$ Jo.

## H0RGES.

The examination by the Judges of the horess exhibited, commenced about ninc oolocock on Wednéeday morning, and proceded slowly. Very grent interest Was taken in it by the visitors to the Exhibition, who
surrounded the horse-ring in large numbers, and surrounded the horse-ring in large numbers, and
freely expressed their admiration of the many leauti ful animals brought out from the stables.
In some respects the Canadian frimer is at a disadvantage when compared with his British brother, In England the fhrmer generally has two sets of
horses. The one he keeps for working the land and horses. The one he keeps for working the land and
for draving loads. They are heavy animals, of eno mous strength, but slow in pace. This sort alao takes the heavier produco-the grain, hay and potatoesto market. For drawing gigs, light waggons, and aop carls, a differeat varicty is provided; far more slimly built, and capablo of trotting along at a good round pace. But from various causes the Canadian farmer generally uses only one style of horse. The roads require a stronger animal than the light English road horse ; while the heavy draught beast would be altōgether too slow. From this cause, and from economical considerations, a medium horse is preferred in Camala, which can take either the roador the ficld. In this way a horse of an almost distinct character in got, capable of farm work, good on the road, and
suitable for the country, but which will stand comparison neither with the heavy uraught horse of England nor the gig horse. The circumstances just stated render it dimicult to claseffy the horses actually exhibited, many being both "agricultaral horses

Or stallions for agricultural purposes there were but fiteen entrics.a small representation of the class, so far as the number is concerned, but there were some splendid animals among them. Among the best were those exhibited by Jolin Summerfelt, of Markham, and Thomas Teasdale, of Chinguaconey "Waxwork," belonging to Robert Stevens, of Streets ville, is a noble animal, possessing great be eadth of chest and beauty of action. "Young Exhibition," ownel by Thomas Goldring, of Sarnia, 8 years oldhas been successful at several Exhibitions. He is large and proportioned well. "Golden Hero," a ninc-years ok stallion, owned by Mri sobn Brydon, Township of King, has a strong dash of Cleveland blood in bim.
"John Long," a stallion 8 years old, is a smaller animal than either of the others mentioned. He is marked strongly with the characteristics of the Suffolk l'unch, finely formed limbs, short, arched neck, short back, and great shoulder power, but without an angle to be seen. His colour is light chesnut ILe is owned by Mr. Patrick Murpliy, of Guelph.

There were only fifeen entries of blood horse 1 , an they are exhibited by Mr. White, of Bronte, Mr: Shedden, of Toronto, Mr. Ackland, of Oshawa, and Mr. Dew, of York Township,
Mr. Ackland's horse "Kenneth" is a splendid animal, bay in colour, with be utiful action, rather lightly built, but very strong. His sire was imported rom Kentucky some years ago. Mr. White showed Tonchstonc," bred by himself irom imported stock.
Mr. Simon Beaty exhibited an excellent heavy draught stallion of the Clydesdale breed, imported rom Lanarkshire ; and also a grey stallion, imported from England last fall, by Mr. Copeland, of Cobourg, who daserves very tavourable mention. A three years old heavy draught stailion, showed by Mr. Harvey of Beverley, is an animal of much promise. Mr: grey mare, of graceful build, well suited to serve as a single carriage horse, among which she is classed. Among the saddle horses, one belonging to Mr. Hendrie, named "Doncaster," is perhaps as good an unimal of the kind as is to be found in Canade. Ir. Smith, vetcrinary surgeon, of Toronto, also exhibited a very fine horse of the same class.
Jr. John Shedden, of Toronto, showed a capital span of leavy draught horses, got by an imported English horse, "Sir William Wallace." They are splendid animals, of a very large size, well made, and wanifestly of great strength. They are not so heary as the English draught horse or the Clydesdale, but there are few, if any, in Canada that come up to them. They were walked round the ground attached to a large waggon, their harnoss decorated admirers.
There were 29 entries of road and carriage statlions. The quality of the whole is very good. "Black Hawk," belonging to Mr. Davis, of Thornhill" and "Young Grey Eagle," to Mr. Daines, of Whitby,
are beautiful snimals. Mr. Jindsay, of Wondstock, showed a flue pair of matched carriage horsee got by thorough-bred aballions. These are necessarily but meagro notes of an extibition of horses cmbracing over 400 animals of farions ages.

## CLTTLE

Tuk display of catfle was the leading feature of tho Bxhibition. It was inded a magnificent colledtión o? animals. Competent judges were unanimously of the upinion, that so fine an assortment of neat stock had never béfore been got together on this continent. $A$
generai sentiment of pride and ploasurefilled all minds zenerà séntiment of pride and pleasure filled all minds according to this part of the show. in Durbams, importéd by Hon. D. Cbr̃istic apprōpriated a largo share of the honours. We hare no fanlt to find with this, beliering that special encouragement should bo given to enterprise and spirit in this direction: At the same time, we doabt not there were other though not "made up" with thically thelr cqualis Mr. Christio's new importations were, and most ilkèly always have beén in high conditioñ, too fat indeud for ordinary purposes, and anter zecing them we are not surprised that tbe Mfark Lane bigrress and
other Dritish journals, should exclaim so loudly against over-feding by old-coinntry brećders Our Board of Agriculture, in February lakh reitolved, T That in fature, judges of atock be inatructed to exclude rom competition breeding animals which have been erer-fed for Exhibition purposes." Ifnving the fear of this rule before their cyes, our breeders bave, with scarcely an exceptiōn, abstained from have well nigh gone to the opposite extreme. The rule just quoted is in our view a just one, and we hope exceptions tó it will not be used as precedents. The first prize bull of any age was a yearling, owned by yessrs. J. \& J. White, of Mi.ton. - He also tōok the first prizo in the yearling class. Ills sire is Cowrord Lad, ${ }^{\text {owned by Messrs. D. Christie and J. }}$ Cowan, and took the first prize in the four yearold class. Doth eire and son are splendid animals. Wo forbear further particulars in regard to them, and also omit reference to the prize cows and heifers as we shall probably give portraits of the best nmong them ere long, and will then supply a mors detailed account than we can possibly do now. The Devons andy as full force as dhe Durfams. acsers. S. Petorad, of London; D. Tye, of Whiol, and class. The Ga!loways also formed a striking feature in the cattlo show. J. Snell, of Edmonton took the irst prize in four yoar old bulls, and bulls of any age. He also took the prize for the best cow. Ir. Snell's herd of Galloways is certainly a very fine one. Other breeders are paying attention to this variety, and it is evidently growing in public favour. In Herefords, Mr. Stone, of Guelph, was almost "alone in his glory,' and made a clean sweep of the prize list. The Essey, of London township, Col. Denison, of Toronto, 1. R. Wright, of Cobourg, J. P. Wheeler, of Scarboro: and Col. E. W. Thomson, of Toronto, were the chief exhibitors in this class. There was a fair show of grade cattle. The Fergus Cup, a prize given by Hon. A. J. Ferguson Blair, for the best grade two year old heifer, was won by W. Miller, junr., of Pickering. Thos. Stock, of West Flamboro', W.
Giller, junr., of Yickering, and John Smith of 'Weat Plamboro', were the leading prize-takers for grades. The show of fat catile was not large, but there was a good display of working oren. Want of space precludes a longer accoont of the neat stock exhibited nnd we shall in all probability take up the subject again in a future issue.

## sneer.

.Next to the cattle the sheep formed the most prominent and interesting part of the Exhibition. Over 700 entries were made in this class, and of that lajgo number more than one-third were Leicesters. The South Downs werelargely in the ficld.: Scarcely less numerous were the Cotswolds, and next to them the Spanish and Fregal Morinoes. Other breeds, ag. the Shropshire Down, Oxford and Hampshire Downs, Cheviots, sec, were well represented, and there were also a number of grade sheop. Messrs. White, Snell, and Jackson were the leading competitors in the Leicester class. Mors. Stome and Bethell nearly carried all before them in, the Sonth Downs; and Messrs. Stone, Sacll, and Miller took most of the Cotswold honours. A ram of Mr. Stone's, weighing over 100 lbs., Was greatly admired. In Shropshire
Downs, Mr. Geo. Miller, of 1 Iarcham, distanced all competitors; his Hataphire Downs were also mus commended by all capable of judging. in Cueviots, David Elliot, of Grafton, W. O'Guy, of Oshawa, and George Miller of Markham, took all the prizes. The coow of Merinoes was not par-
ticularly good. There were no really first-class
animals among them. As a novelty, we may mentim some Negrete Merinoes recently brourhit from l'manal "heheh were exhbited by Mr. J. Homeger. of Browhille. The mose attractuve portion of the sheep shuw consisteil of Mr. (ieorge Niller's recenty impurted aumals, of which he haul nbout forty on the gronnd. We have but brictly alluded to the slacp. intemling heremfter to notice them farther, and probiab! tagive engravings of some among them.
pigs.
The purcine display. though beiter consulerably than last year at Kingsteu, was not so goon as wo remember to has secen it un sume former occasions. Corainly it is quite interior to what it was four years ago. We miss the names of some well-known and cminent computiturs in this departument. such as lenton of I'ari. Tye of Wilmot. and others who might be mentioned. The deficieney this gear was chielly in the lBerkshire class, which was not so largely or so well represented as that justly-prized breed deserves to be. The Suffolk also and bitt jew representatives. Some improvement needs to be mate in the prize-list. so is to prevent the miscellaneons classification in "other large breeds" and "other smill hreeds." which must sitike every uh-
servant spectator who knuws the difference hetween servant spectator who knuws the difference between
a lortishire and a =uffolh. We have no "mamonoth logs. in the show of the present jear, and they can lie well dispensed with. There were sume fine animals of the lorkshire breed, both large and small. especially the former. As usual. C'A. Jordicon of Wallbridge. had some good tpecinens. though fewer than usual. II. Thomas, of lirantford. showed a sood boar and sow, over one gear old, and Joseph Alton, of Velson. a large. long. fine unt-year-old. Jas Ford, of Trafalgar, liad a nice lioar -an escellent specimen of the lorkshire lamily. samuel 11 Heeves, of lyerry West, J. $\mathrm{l}^{3}$. Wheeler. of searhorongh, J. Mair, of lloyne, and X. Ibethell. ot Cirantham, lad some tue young ammals Irom 4 to 5 months old. Among the indefinite $\cdot$ large breeds wore iwo 80ws, one owned by Whecler, of scarhorough. and serving of special mention. Peter Grant, of Hamilton. serving of special mention. Peter Grant, of mamaiton,
also had a large sow of good quality. J. McGlathan, Biso had a large sow of good quality, J. AcGlarhan,
of l'elham, showed a large boar that is well-bred. In larkshires, there were some good specimens contributed from the yards of Alex. Thompson, Morion; $\leftrightarrow$ Baker, Simeor: Cols Thomeon and Denison Thos. Dunbar. of Ancaster, and $G$ Davis, of Wellington Square, showed some worthy of praise. In improved lierkshtres, George lloach. of Hamilton, exhibited a good pair. one only ten months old, the other over ohe year. Hugh lempsey. of Downie had a very pretty threc inonths nid boar of this clas:, and $A$ Ciorric. of Dundas, showed a pair of like age. an intermediate family between the large and small breeds. Tre were glad to sec some Cbeater colnty whites. This variety originated in Chestor county Pennsylsania, and has hecome very popular in many parts of the Linited States Some of them are coarste. but the better specimens sre fine-grained.silliy-haired nice creatures. Gcorge linach. of Ilamilion, was the chief exhibitor of Chesters. A pair ten momths old attracted some attention, and a sok, one year old
much more. This fine animal had two of her pigs. six much more. This ine animat had two of her pigs, six W. Ienry, of Jockiton, exhibited a pair of this breen, orer one year old. The boar was coance, but the sor fine. Peter Grant, of llamilton, also showed a pair of Chesters both fine and good ; the boar especially so. We think this brecd of pigs wial prowe a decided acquisition. In Suffolks. 1). N Kenny of
Milton, showed a rery handsome boar. whocn only Milton, showed a Tery handsome boar. Whoce onlv
defect was excessire fat. J. Zimmerman of Xinlson. defect was excessire tat. J. Kimmerman. of Siacon. a good pair five montha old, of the smalif breed Thery were some first-rate Fiscex hoga to be ceno Jamow Vine, of St. Catherines; T. McGrac, of Guclph; W. A. Coolcy, of Ancaster; and J. Cowan, M. $\mathrm{I}^{\prime} . l^{\prime}$.. of Waterloo, were the chief exhibitors in this deserving class, the only oljection to which is its colour ; and that is a mere matter of tasic, if not of prejudice

## porsitry.

The show of poultry, as a whole, was but moderniely good. Still there kere some specimons that were first-rate. The Asleshury dncks. shown 15 Acssrs. Pelers and Bogue, of London, might almost challenge the world to beat them. They certainis would not bring disgrace upon their owners. ai the hest poultry shows in Britain. The large, white and Bremen gecse were also excellent. A fair but not rxiraordinary representation of white and grov liorhings was on the sround. Uf Inmburgs. galilen alver, and spangled. there was a very fair collortion The black epanish fowl on hand were pretty good Lut Canaduan breeders bave before now produred better. One good cock, the best unquationably nn the gronnd, had the dishgurement of a frozen comb a taie lull against b:8 ownerfor argiore of Polanda
there were but few, the blacks quite ordinary, but inall wear well. The engines made by this firmare

 ferior. The fochins had searcly a representatio e There wis not :t himf 'ombin hond, bad. or indiffer cont on tho fround 4 very fi'w ordinary Italamis only. made their apporarance Some fatir looten and Muscovy dueks were exhibited by W. Cowing, of Grantham, and others. Large English duchs were
 White and coloural turkeys were shown hy the last nambd parties, and by $J$ Korr, of Stamfurd. A cplendid pair of wild turkess was exhibited by Mr.
leters. of landon. Juhn Cullis, of Cranhorne. tooh the first prize for white gerse, and John Bjegar, of Flamhora", carried off the same homour fur columred geese. S. Peters had a fine pair of Chinese gerese. Meesrs. MeInomald and Riddell, of llamilton, exhibited conllections of pigeons. in which were nome beautiful specimens. Two varieties of carriors were especially admired.

## MPI.EVENT:

It is pleasing to notice the progress made in the manufacture of agricultural implemems. Ie:ar by year hoth the number and excellence of those exhiliited increase. Many improvements are mate in their construction, the results of the thought of Connalian makers, whilst great yuickness is also m.tnatesterl in the appropriation of American illeas. (hur farmers can now, purchase from manafacturers in this I'ranmee implemunts as good and as cheap as he can get anywhere in the worlal.
Commencing with the machines for sawing wood, we meet first withone shewn lig llon. F. leentaral, of lonton, C. W. It is light, very easily carmed from farm to farm, and capable of cutting ten cords of wool per hume, with the use of fur horses. Its price is 570.

Messirs. J d. S. Noanon, of Ingersoll. also had a saw ing machine, the iron worh of wheh si sery nicely finished. It will cut eighty or nonety cords of wovil per day, by the aid of four horses. The price asked is $\$ 60$.
The "crack" thresher and separator upon the ground was that made by Mr J. Hall. of ()shawa. It is beantifully finished in all particulars. A great part of the wood work is of maplo statined, varied in places with dark walust. Thw iron work is all laghly polished, and asory sernw-head in it filed as
true as in a Great Western locomotive It has a true as in at Great testern locomotive It has a
number of improvements in it. hut in principle it appears to be the same as those gebrerally in use 'lhere is considerable ditiernace of opinion between makers respecturg the therits of belting and gearing -the tumkency is apparently in farour of the latter. In Mr. Hall's machine very littie leather is amploged The farmers sathered around it in large numbera. and were umted in their expressions of admiration An arrangement for saving the chalf after tho grain
had been winnowed gave great satisfaction. The had been winnowed gave great satisfaction. The
machme bas attached to it aten-horse litts power, and is capable of threshing 500 linshels a dacy.
I. Al'Sawyer of llamilton, show ad a well finished threwhing machine

Mr Joha Wafzon, of Ayr, had one of a similar description.

Messis. F \& Bechiett di Co shownd three steam engines. The first is a portable engine for farnitug work. It has an eicht inch cylinder with a ten inch stroke. and ai 120 rovolutione per minuto will do the work of ejght harses. Its distinguishing foature can givis in thas. that the engins work io all bolton to the boller, and rests upon it without the intorsention of a frame. The object in an making it is tho rolurtion of wejght. The one in question weighs only $3 . . \mathrm{BO}$ Tha. and may readity be drawn by a rouplan horsoe
The doubt about it is, that going over rough ground the screws which fasten on Ghe machinery to the boiler may become loosened. But purchasers from Mfessrs. Iheckett have their choire. Thuy can cither buy this engince or another in which the ma. chinery is placed upon a frame, but which weighs about $5,000 \mathrm{lbs}$. The difference is not. howerer, cancid altogether by the arrankement notirent. To its crodit must be placed that which is owing in at fire-bor of more than the ordinary length. in order to permit of the use of wood of the regnlar lengeth. thins sar
ing the trouble and expense of sawing ing the trouble and expense of sawing. Naither of these engines, if kept in good comilition, will ronsume more than two and a half coris of wood per week. The price is Sisco.

A stationary hnrizontal cugian una -hown lig the same firm With $4^{\circ}$ pounde if ci, am, in the buiter it will work up tn l's hners pow er The cylinder is ninu inchas in dimmenre wihn a thirtom ind struhe.
The prier is sono boiler and all remphete The wark on all the anginea apperaro to he of a must trust worthy dearription Grant rare has bren cxercised
in getting oberything rolisble, en that the parts may

Vurably known throughont the $l^{\prime}$ rovince.
C. M. Waterous d Co., of Brantord, also t
C. H. Waterous \& Co., of Brantford, also coshibited a stationary engine, in fall worhing order.
There is, of course, a large disphay of mowing machines. Ititle can be said of therr merots from merely luohing at them. The real test was applied when a few months ago they were ont in the field competing with one: another. We noticed a Jhall's Ohio. presented by Mr. Joseph Hall, of ()shawa. w the Soviety, for preacentation in than to the surceresiti. competitur at the ploughang matels. Ar. Iland mught compettur at the ploughong mateh. Ar. Inan monts thought liberal enough, but ustead of that he hats given utke made in spletultel style, polishoal and paint cil until it is a perfect - swell anomg machnos. In ebery respect thas been benuafally made.
The report of the Judges on mowers and reapers, which we pive in full elsewhern, ohviates the noers sity for lengthened remark in reforring to this important class of implemonts. We maty. howerer, just sjecity one or two novelties.
Mr. J. Collins. (Gutlph. slowed a Felf-dulivering reaper, in which he aims todisperne with the presener ut a luing raker. Fur thas parpose instead ot making the floor of the matehne of board. ho forms it of an cudless chain of woolen strips, which pass romme a couple of rollers. 'the chatin of strips movers as the




Mr. J. Bngham. Inrferd, showed another aelf-raker Whaline citls ' ioung dinatam. It would doubt less do its work well. lint the heavy manner in which
it ifons the rahe on the floor of the machine is an objection which perhaps a little ingenuity might olovi jectio
Me

Wenext come to the grain-drilla Mr John Soulere, of Markham. slowed one which makes the drill by means of rolless, and also sows the grain An ar rangement tor sowing grass is att:cherd to this drill.

Messrs. Maxwedl d Whitelaw, of Haris, showed a well-made drill with ten spouts. Mr. J Watson showed another not quite so large. Messrs. liallington \& Forsyth are in the same line of business.

Mr. S. Day, of Brantford, showed a horse hay rake. The tecoth, sixteen in number, are made of spring sted ; the width covered loy the rake is nine feet. The machine is constructed on a psinciple very generally adopted on the other side, it being beyond all doubt a graat improvement ovar the old revolving rake.
Mr. Mugh Mclaren, Messre. J. Scott di Co., and Mr. J. Thomas, Hamilton, each showed a stump extractor. They arc all worhed by serew. The machine shown by the lest mentioned manufacturer is an excoedingly powerful one, and is mounted on mmense wooden wheels.
Mr. C. lacky, of salem, showed a loi of ingeniously constructed hand seved drills. Mr. Jolnn Watson, Agr, Mr. Charles lemain, Hamilton, and Messrs. W. \& C. Walker. Braatford, are manufacturors in the same line of busines. The show mate by cach is sery creditable.
Mlessrs. W. Mahafly. Irampton. and Grorge Bryce. Mohask, each shownd at pair of iron harrows with curved irons. Mr. Hruce. of Guelph. showed ono curved irous. Jitr.
with a wooden frame.

Ar. Rundell,of Chicago, exhibited a horse pitch-fork. It is a simple lut ingenions contrivance, by which a large fork 3uspended from the roof of a barn, or from a pole over a rick. carries up a load, empties it, and then descends. Mr. Gcorge Inglis, of Eden Mills, ehoned a long handled burse las furk, which appears to work eainally well. We commend woth to the farmers as latuour saving machines, by the use of ulich they may greatly benefit.

The assortment of ploughs is a large and varied whe, ind furnishes evidence of the great progress which has been made in the improvement and per fection of the farmer's most essential tool. Some swenty fire or thirty of the ploughs were being tested by the judges outside the phaibition grounds at the tithe of our inspection of the implements, and hence we did not obtain particulars as to their several makers and characteristics. We observed threesamples of the double shear, or donlano Michigan plough, ometimes called by mistake a subsoil plongh, cxhibited by IR. Ilill, of Iort Hope, J. Watson, Ayr, and W. A. Cooly, of Ancaster, as agent for Wiard
Ihros., of Careyrille. N. I. This is an implement which deserres to be better known by our farmers. A rery nice donible moald-board plough, with inarker attached, for making turnjp drifls, was shown by Geurge Morliy, of Thorold. Two styles of subsuil plungh are cilathted, both mane of iron, and pretty liearg. Une is made ly George Morley, of Thurold, and consists of a single square share. kept in place pg three whecls. It has rather a clumsy louk, and is not apparently calculated to "rip and tear quite envugh in the sulusonl. Another was shown
stir among the clods and roots, but we fear the draft is leary. Iron planghe of the ordinary shape were "Shimbed by Flecther of Heverley. Mahatity, ot Brampton, Alexander, of Bellesille, and others.
There was a very good varinty of cultivators, both donble and single A ' Bruce of (inelph, elowed
an eflictive one for wo hurew. bakia \& Cish, of an eliretive one for wo hurses, bakin de Cash, of is of wery superior workmanship. J. Scott ac Co., of Inmulas whtuited wo styles one turnished with a seat. T d d yorgan, of varkham, vowed a combined grubhur and cultivator by taking off the ehovel-teethjou haver a sert of grublure ; this implement is admirably lugrerenll nlsn hat an cevellent two horse cultivator. So also lual J Grindluy ot lergus \& co, we especally like the way the tecth of this implement are
Braced. T. Weaser, of Berlin, showed at revolving cullivator, and F.J. Paynerlin, showed at revolving culturntor that yot looks as though it might do cllective service. I. Westeott had an all-iron cultivator, with rear handles hide those of a plough. Gne-horse cultivators were phetty numerons also. J. Norrish. of
Eilen Nills. A Harrys i. 10 of Bemustile.
 Westeoth, exhibited these. Some of them are very hight, and yet ellective soil-stirrers.

Rollens tor rolling the land were shown by three
 double roller. one in advance of the other, made by Fakind Cash, of Markham. It leaves no ground bur. touched, wortis well, turns easily, and is in our view an ciceilemt style ot clod-breaker and surfaceshoother There is no very varied assortment of strawe eutiers, most of thembeing made on the whedknife promeipe. An excellent one for horse or hame power was shown by J. Watson, of Ayr. Maxwell \& Whtelaw, of haris, showed a very excellent one to go
by horse-power. MeLarea, of Lowville, Sawyer, of by horse-power. Melarch, of Lowville, Sawger, of
himitton, and others had straw-cutters on the hamiltoll, and others had straw-cuters on the
gromul. Janes lhully, of Windsor, alowed a combined straw and root-cutter: D. Darvili, of London, showed another-and in our view a better one. Tharnipslicers of various kinds were to be seen. The choking of cattle with uncut roots is now an offence against humanity, for which there is no exelse. Watson, of
Ayr, Mcharen, ot lowville, and Maxwell \& Whitelaw, of laris, competed in this article. Implements for the dary were not lacking. J. Amor dzons, of Hamiton, showed a curd-mult, wheh seems to work well. They had also two styles of cheese-presses.
F. D. Clememt of Cobourg, hadimother style ot cheese F. S. Clement, of Cobourg, hadanother styleot clecese
press. Two kinds of cheescos at were on exhibitionpress. Two kinds of cheese-sat were on exbibition-
the ${ }^{*}$ Conion Dairyman, made by 0 . Neill \& Co., of Letica, N. Y., and "IRalph's Oneida Vat., Theseare mended for cheese-mahers on a large scale. Wegive the preference to lalplis vat, and think this is the general opinion among experienced dairymen. Fanmagg Minds were almust non est. Only thu competiturs
exhintel these, Scott \& Co., of Dundts, and Wilsua of
 sereens work across the mill, instead of lengethwise.
A fell styles of fencing were shown. W. J' Walker, of lirampton, bad some wire fence, intended for garden tence, "hach is wery neat and pretty. The with has " portable straight dence," wheh is by no means to be despised. H. Lath, of saluleet, showed another style of portable field fence, which was of simple construction. Yict another was shown by J. 13 . Graery, of Weston. R. Lewis, of Melbourne, had a section of ornamental fence with a pair of roller gates, which bate a tasteful appearance, and worh iery satisfactorily. He had also commoner fencing for urdinary uses. S. Washburn, of se George, had a mrothers, of Etobicoke, exhib:ted a very ingeniously contrived selfacting gate, by the help of whin 15 the waggon or carriage acts as porter, and you are saved the expense of a gate-keeper and the trouble of dismounting. If it only works on the road as well as it did on the Exhibition ground, it will prove a great convenience. Cider mills and presses were cxhibited by A. Harris di Son, Heamsville, N. M. Samson, ot
St. Catharines, Dalmer \& Grout of Grimshy, and J. Scott is Co. of Dundes. The latter exhibited two, $n$ small iron hand-mill, and a large mill of wood and iron corobined. The show of churns was small. Condon Lewis, of Durban, bad one which is worked by aningenious plan of driving the common dash by means of a windlass. A. O. Dell, of llowmanville, had one which agitates the cream wilh a horizontal revolving dash. Edward Lawson, of this city, had a
double-dash rotary churn. Only one wasbing-machine and one clolhes-wringer atiracted our notice. If there were others we failed to see them. II. A Cuombs of Stoney Creek, and W. L. Chinds \& Co. of Llamilton, Tero the exlibitors. Isaac Moyer, of Clinton, bad a verg noisy but apparently ellective
meat chopper, consisting of thrte batchets, which meat chopper, consisting of three batchets, which
work with great regularify and force. Thes would soon make sausage-meat of an unlucky dog, cat, or
purker. Lawn-mowers, from the manufactory of A. Shamhs \& Son, Arbroath, Scotland, were shown, we presume, liy J. Fleming di Co. J. Norrihh, of Fden Sills, exhibited some nice ox-yokes. Grain cradles. buth commun amd maley, were to be seen. The chief mahers me Baher, of Whterduwn, Smale \& Brock, of
 10 os occupation's gone." The reaping machines have rendered grait-cradling obsolete. Thos. Bryson, jr., of Londun, exhibited sume well-mude half-muley cradles, and a splendial lot of smabler mplements, such ar. straw forles, hay rakes, scythe suathes, and thistle catractor. IIe had also a machine for harvesting pease, but of this we do not thank mach, believing a common scythe to be far better. A splendid assortmulth of acythes, hoes, nud forhs came from the mann-
factory of A. S. Whiting \& Co.. of Usuawa, which we visited not long since, and after seciug the estahlishment, we are not suprised at the excellent work it hats sent forth. We must not omit to mention a model of a potatoedigger shown by W. W. Kitehen. of Grimshy. Success to it, for potatoc digging by hand is weary work! An assortment of drami likes and tile bordering for gardens. was shown by E . 13rown, of delson. W. Lindsay. of Vewcastle, had a tile-1alaking machine, which will make tiles ot all sizes from two to eigh: inches in bore. It is driven by hand, requires two men to work it, and is capable, if properly managed, of tarning out 10,000 tiles per day. Of course the clay must be previoush! ground. J. A. Lafler, of Albion, N. Y., showed : working model ofa brick-making machine,w hich combines a clay-mill and a brick-monld, and will make either common or pressed brich, by changing the clud-crusher and moulds, which can be done m fif-clud-crusher and monhes, which can be done mif fif
teen minutes. It will turn out 12,000 pressed brick. ecn minutes. It will turn out 12,000 pressea brice. Bronte, hat a cluthes-drier on a new and simple pinciple, for which the ladiey ought to be, and doublless, will be, gratefnl i. e. if they can coax their hulaands and fathers to buy it for them. G. Huntington, ofivorwich,showed a machine for "upsetting" iron, especially waggon-tire-which obriates the necessity of cutting and welding. Mair, Inglis A Co., of Guelph, had a shingle $\cdot m a k e r$, and machines for cutting and planing tlour barrel-heads, which work almost magically.
Strange to say, bec-hives nere not included in the prize list! This was undunbtedly an oversight, and is not likely to oceur again. Happily, much interest is being awakencl all over the comatry in bee-keeping, and we were glad to see Messers. Thomas, of Brook lin, and Scott, of Yorkville, on hand with their hives. lioth are mate on a similar principle, that of the "moveable-comb observing hive." These hires at tracted a great deal of attention, especially those of Messrs. Thomas, from the fact that one of them was inhabited, and from time to time the proprietor showed the conveniences of the hive and the quictness of the hees, by opening and exposing the cumb, frames, and busy workers. There would be argene-
ral rush into bee keeping if people were not arrid of being stang. lly taking certain little precautions this danger may be completely obviated, and the most absolute control maintained orer the " little husy bee.". The Messrs. Thomas demonstrated this to the of hives and bees.

## flat.

Tus: number of samples of flax exlibited was not so great as "e shonld have liked to hare seen, or as might have been reasonably anticipated, considerang the acreased attention which has been given to the subject of dlax culture during the past year. The sampies shoun, however, are much superior to those at any previous Exhibition, and were cxamined with a great deal of interest, and with many enquiries as to the best modes of culture. Col. Mitchell, of Nor-
val, carried the Canada Companys prize of $\$ 2 \pm$ for val, carried the Canada Company's prize of $\$ 2 \pm$ for
the best 112 llms of fax, scutched, and of Canadian growth. Mr. John Rea, of Yarmouth, comuty of Elgin, received the second prize of S16, given by the Association. The samples shown by Messrs. Black if Forrester, St. Mars \&s fell short of the required quantity, (4l2 lbs.) but were very meritorious, cxhibiting the Hax in its different stages- the raw state, steeped, and scutched, and bad an extra prize awarded for them. Messrs. Biack \& Forrester bave started a flax mill, and have made arrangements with farmers in their neigavourhood for having 800 acres put under his crop next season. Messrs. y'crine di Co., of Wiaterloo, had no lees than 2,000 acres under thax this yenr, and it is matter for regret that they did not bring samples to the Exhibition. The flax shown by Col. Alitclecll was very fine, much better than that sent to the lrusincial Fair last year. Mr. Rea's was also of excellent quadity, and would hare stood a
f.ur chance of tahing the first priz? aganst the for val sample, had it been as well handled after being pulled.

Minch interest was taken in the samples of flax brought from Europe, by Mr. Jolm A. Donaldson, a conteman to whom, as our readers are aware, a grea de:al of credat is duc for his zealous efforts to impress on the mind of the a aricultural community the adapt edness of this plant for culture in Canada. The ohject of exhibiting thesse samples was to show to what an extent the value of the article can be increasel. when proper care is taken in its preparatoon. The value of European fax, properly prepared according to the most approved methods, runs as high as $£ 175$ a ton, while a specimen of fax, grown and scutched in Canaln, and recently sent to Ireland by Mr. Donaldson. sold there for only fis per ton. The difference in the modes of handling the product after it is grown, makes all this difference in valuea fact of which all interested would do well to make note.
The first prize for the best bushel of flax-seed was awarded to Mr. John Clark, Chinguacousy. Several tirmers present at the Exhibition, who have been growing flax, stated that they had got as much as 10 bushels to the acre-a large yield. There is little doubt of a good market being found for all the fiarseed that can be produced. We are glad to learn that Messrs. Goolerham \& Worts, of this city, have their mill for the manufacture of oil-cake and linseed oil almost ready to go into operation. Messrs. Elliot, Hunt \& Co. are also opening an oil mill at l'reston, as well as a flax-mill, anda manufactory for spinning and weaving the products of the mill. It is worthy of mention, also, that Mr. Walter Arnold. of St. Catharines, has now a factory in operation for cottonizing thax, usiug in this process not only the flax itself, but the ton separated from it in course of preparation. Capital to the amount of $\$ 20,000$ is already incested in this factory, and we bear with pleasure that a
ready sale is being found for its products. No specimen of this cottonized fiax is coxbibited at the present Fair. Uf hemp there were only two entries, and the samples shown were not sufficiently up to the mark to ubtain prizes. Mr. H. Girouard, of Mamilton, go the first prize for the best bushel of hemp seed.

## FRETr.

The display of fruit this year was good, equalling, if not excelling, the show of any year since the Fa hibition of 1860 . The ocasoa of 1860 was remarkably good for fruit,the peaches especially were magnificent and the show of fruit generally uas very fine. This year the peaches in almost every section of Canada have been a total failure, and, with the cxecetion of a few plates of very ordinary loohing speci mens, we missed them entirely from the present Exhibition. For other fruits the season las not been favourable. Winter's cold and summer's drouth hare both been against them. Still, as we have said, the display was at least as good as any we have had since 1860 . A display of apples and pears was made, which, considering the unfavourable circumstances under which they were grown proves conclusively that crops of these fruits may be expected with tolcrable certainty from year to year
The show of grapes was the largest we hare ever had The show of grapes was the largest we hare ever hai at any l'rovincial Fair, and of a quality which afforded very gratifying evidunce that increasing attention is being paid to the culture of the vine, for which we are now finding ont that the climate and soil of Canada are well adapted. The experience of our vine cultivators fully bears out the conclusion arrived at by a Committee of the IIouse of Assembly last ses sion, that, by proper open-air culture, a most sbundant grape-harvest, of the best quality, could be gathered in Canada, and we trust that year by year the natural adrantages of our country in this respect will be turncd to increasing accoint. A more full and particular account of the fruit may be expected in our next issue.

## flowers.

The display of flowers was fair, although the season for holding the Show is too late to sllow the horticulturist a fair opportunity of exhibiting the trimmphs of his taste and skill. The fine collection of green-house plants, occupsing a large portion of the central stand, snd exhibited by Mr. Thonans Buchanan, Manilion, who received the first prize for them. Wis much admired. The collection shown by Mr. llirschfelder, of Toronto, which carried the 2nil prize, embraced also a number of very handsome plants.
gimben tegetimles, fielu noors, bitc
The show of garden vegelables "as rather small, but embraced very many superior samples. The show of field roots, with the exception of pohitoesof which there was a very large and creditalile display was limited in amount, and the samples were fur the most part particularls remarkable fur their
excillence. of the display of roots to neglect of these important crops, and would rather account for it by the naturo
of the past reason, which was e very unfavourable one for this class of products.

## miscenilineoty.

Inder this head wo may brielly refor. first, to dairy prodicts. D. Clarke, of Puslinch, and G. Stranger of Nassagewarga, took the leading prizes for butter As usual, Mr. H. Kanney, of Dereham, took the lead in cheese. J. Cowan, of Salthert. came uedt. H. R. P'irsons touk the first prize for Stilton checese, and J . liarris, of Ingersoll, for pine apple cheese. Excellent honcy was exhibited by II. Mckec, of Norwichuille, 1). Viandusen. of Grimshy. and others. B. Mynman, D. Vandusen. of (rimshy, and others. B. hymman,
of Grafton, Jirs. Miller, of Morval, and othere, showed some prime samples of maple sugar. Bacon and hams, beef, mutton, and nutton hans, were shown by John Canpben, of LIawition. A ample of Cbincese sugar cane kyrup was exhibited by J. Earterbrook, Fast Flimboro, and Mrs. Lawry, of Hamilton, was sole competitor in bread. Many otber objects of interest might be epecified, did our space admit. Waggons and carriages of fuperior workinanship, Baddlery and harness work, and the large reain of the tine arts, furnish ample scope for enlargement but we hare alreads transcended our limits, and can only add a brief

## stmyina tr.

The Provincial Exhibition which has just closed has. on the whole, fulcilled the promise of success has. on the whole, fulilled the promise of success
with which it opened, and bas been, in some respects. With which it opened, and bas been, in some respects,
decidedly the best ever held in this Province. More complete arrangements, better accommodation, and an improved system of superintendeace, bave characterized this year's Exhibition, and very few com. plaints had occasion to be made. The oflicers of the Association deserve much praise for the sativfactory and efficient manner in which tbey managed things. They lasd no small dificulties to contend with, some of an unerpected local natare, but by prudent and prompt action all were overcome
The provision made for trangers was more than usually complete, and we believo but litle inconvenience was suffered. Just prior to the Exhibition. there was danger of the Rogal Hotel, the largest and best in Ilamilton, beiag closed by the Sherift, but fortunately Messrs. Xugridge \& Co. bverted that calanity by purchasing the establisbmont at the cleventh hour. Their epirited preparations and unremitting atte tions made a large multitude of guests very comfortable. Atmost the only drawback to the Exy comithon was the wet weather on Thursday. This Exumithon was he seriously leasened the receipts. Still, on must have seriously lersened the reccipes. been very the Whole, the pecuniary returns have been eery were sold, which with $\$, 500$ on Friday, 2,000 on Tuesday, and 13,000 on Wednesday, brought up the total number of quarter dollar tickets for the four daya to 27.000 , realizing pearly $\$ 7,000$. In addition abont 1,060 members' ticke'ts were sold at $\$ 1$ uach. besides as many prore isened to local agricalural rocieties. The receipts of the Association during the pregent show have shus been rery anuch better than at Kingaton last year, thoug
receipts at Toronto in $18 \dot{2} 2$.

## Report of the Judges on Mowers and Reapers.

Ever since the mowing and rcaping matches, ribich took place in July, and were fully reported in our columns, much curiosity has been felt to know the award of the judges in refereace to the machines tben submitted to the test of actual work. This award was, by the direction of ". the powers that be," reserved uatil the Amnual Exhibition should come off. Accordingly, it is now accessible to the public, and will, doubtless, be read with much interret, efpecially by competitore and thoir immediate friends. Bf comparing the conclusions arrired at by the judges with the upinuons axprowed in our col. umns, just after the occursesoe of the matchee, it will be been that the vicws expressed by es are confirmed in almost every ibstance.

## meront :

In presenting our report on the trial of mowers and rapere, we think fe may thirly cangratulato the Assnciation on the sucoom of the trial on this occasion. It is hardly twenty yems siner the first rinping machine was made in thin Prorince. and now. nt thin tral. there were machanes trom triclve different makers, while arveral of the largeat manufacturers of these machines hare not sent anj; and, further, that though there wis considerabli diffrence in the quality of the work done-it was all well done-the machines, as a whole, wrought well-no breaking dovn. no tohal failarce. The ntility to the farmer of
well-constructed reaping and mowing machines can scarcely be over-rated, as they nesist lim at the busiect season of the year, and in the most laborions work of the farm. By their aid he is enabled to perfurm variuts mportant agricultural operations, much more thoroughly and at the same time more speedily than be could formerly do by hand, thes rendering him in some measure independent of the uncertain supply of labour, which in some places is so dificult to procure.

We are well aware how diffentt it is to form a fair estimate of the merits of the different machines, seen only when new from their shops, and tried, as they were on this occasion, under the most favonrable circumstances, both as to the gromad and the crops, for doing good work-we may pafely infer that a machine that did not work well on this occasion could not be expected to do good work under any other cireumstances.
In the class of single mowers there were seven entries. Only four of them made their nppearance on the ground, when, after secing the qualtity of the work dane and the timo taken to do it in, bud their respective draughts tested, giving as careful considertion to the whole as time and circumstances admitted, we arard the first prize to No. 4, the Ohio Junior, made by James Hall, Oshawa; the 2nd to No 2, Hubbard a mower, made by Billington a: Forgyth, Dundas, and the third to No. 1. Woods mower, made by J. Watson, Ayr.

In the class of single reapers there were cight entries; six of theso were tried on the gromm. After seeing all the reapers cut twice round the field, all that the number of machines to be tried allowed us time to do, and having bad them tested for their drangbt, and carefully examining the work done, as Hfell as the construction of the machines, we avard the first prize to No. 2, Ayr reaper, made ly J. Watson, Ayr; the second to No. S. made by Billington $\&$ Forssth. Dundas: and the third to No 4, lirinkerhoffes selfraker, made by James Hall. Oshawa.
In the class of Cumbined heapers and Nowers, bere were fifteen enteries, twelve of which were tried as mowers, and ten as reapers. It was in deciding on the respective merits of this class tiat we experienced most difienlty, as, while one machine did very good work as a mower it was not so good 35 a reaper, or one that reaped rery well was not so sucorssful as a mower, and the dithenty was further increared by our finding some machines eutered both as single reapers aml as combined machines, and that other machines were not the identical ones that have been used at the former tral for mowers. After having seen them all cut twice round the feld, and heir draughts having been tested. and taking into consideratuon their qualities both as mowers and
reapers, we award the first prize to No. S, Ball's Ohio. made by L. \& P. Sawyer, Hamilton ; the second to No. 9, Ball's Obio. made by James Mall, Unhava; and the third to No. 12, Bali's Ohio, with a selfraking atachment, made by liamer \& Grant. Grimsby. We vould further recommend No. 13, Excelsior, made by J. Scott \& Co., Dundas. This machine has a very simple but ingenious iavention for dropping the shcaves by a kind of spar platform, delivering the sheares in very peat order directly behind the machiae. Should this machine prove on further trial. to be substantial, and the tilung platform be
fomad to work as well in all ordinary cases as it did found to work as well in all ordinary cases as it did
in the very favourable circumstances we san it worh in the very favourable circumstances we pan
in, it promises to be a very useful invention.
All the machnes both as reapers and combined machincs wrunglit with reels, ame with the exception of the Excelsior just noticed, were all constructed to deliver their sheaves on one side. so as to allow the machite to go round again. Withont the sheraves being bound up, though this in many casers is an advantage, jet the sheaves put off at the stde are in greeral not uear so nearly laid fur bindtug as they are when put off dircetly behind the machine, thongh Where ras a grest difference in the mannor the sheaves
were land off, it seemed to depend more on the skill or strenth of seemed to depend more on the skin fnrm of the machines. All the combined machnes, with one exception, cut a much greater width of grain than grass.
In reference to the trial of the draughts of the sereral machines, we may state that less dependence ras placed on them than otherwise would, from the fact that the dynamameter used on the second trial fulled ather screral of the machines had bern tested, and that the second one used evidently gave a rery diferent measure of power: and furlice, we are bonad to add some attempts at imposition were made at this part of the erial Good bribles, strung lines, and well-fixed nerk-yokna seemed to he trusied to as much as firm whippletrees. Wie would suggest that further and more comtinuous trials are required to Lest satisfactorily the exact relathe draught of the arecral machincs, and that at any future trial when
being tested for their dranght, all the different machnes should be tried with the same driver, and the
same span of horses employed expressly for that purpose. Such trinls will prove very useful both to Garmers and to machine makers. The farmer sees the difiernnt machines at wurk, and chooses the one be thinks most suitable for his purpose, and makers secing his machine at work sees any defects or weak points that may be in it, and has amendments and improvements sugrested to him. Such trials, too, should impress on makers the uecessity of secing that there is a litlle more care in the making up of his machimea, and greing that every part is as prifect as possible before it leares his shop, If this was at-
tended to it would prove more satis'nctory to their customers, and in the long run proftablo to them. selves.

## Grand Provincial Ploughing Match.

"Tur: Grand Yrovincial Ploughiog Match in connection with the l'rovincial Exhibition," took place on Tuesilay last. The field selected for the mateh was sithated on the farm of Mr. Mugh Morwick lot No. 42, 3rd concession of the township of Aacaster, rather more than a mile sonth-west of the village of Ancaster, and nearly eight miles from llamilton. It was the nesrest site to the Exhibition which could be secured -taking the requirements of level ground, clean soil, \&c., into account. The judges appointed were Capt. Sbaw, of York county ; Mr. John Renton, of Glandford ; and Mr. Walter Riddel, of the town ship of Hamilton. The field, by the time the judges had arrived on it, presented a lively scene. For half a mile on cither side of the road leading past it, was lined with carringes. light and heavg. An immense crowd of people had gathered-probably from two to three thousand; though much larger estimates of the numbers were made. The attendance included both sexes and all :ges-though farmers and farmers: soms of course made up the bulk of the gathering. The "setting of the poles," or marking out of the " lands," had been nearly completed; the ploughmen had got themselves in readiness for commencing operations; and a few minutes after the judges had tnade thrir apprarance sufficed to get the match started The filld contained about gfteen acres of fine lerel sod; the soil was a sandy loam. remarkably free from stones, and just the thing needed, ercept that it was, periaps, a trife too try for the clest curting which is cesential to good ploughing. The quantity of ground to be ploughed by each was. as near as might be, one sixth of an acre, and consisted of turning one crown ridge and one open furrow-equalling in all a "land" of feven yards in width and rather more than twenty rods in length. The time allowed was two hours, being at the rate of an acre in twolve bours. Fich plonghman was required to drive his horses himself, and was debarred from touching the farrows with his hands and from having any assistance save in the "setting of the poles." The ploughing was required to be at least six iuches in depth, and not more than one inch of an "under cut" was allowed.
There hat been serenty three entries for this match, fifty-three ploughmen presenterl themselves and joned in the competition. The competitors were from all parts of the country-some coming a long distancu; though of course a large proportion ras from Ancasterand adjoining townships. Among their teams were some fine stont farm horses, but there were also many teams which were certainly far
from being superior animals. The plouglimen, taken altogethre, were physically a fine lot of men. Among the ploughs used there were only three or four wooden ones. The iron ploughs were of different cariethes; a few of them were provided with devices for clipping the sod on the edle of the furrow, in orime that the grass might bo mure completely covered when the furrow was turned. Some did this by means of a chain attached, and others by means of a "clipping" coulter. Nearly all the plonghs nere of Canadian manufacture.
The work began at twenty minutes to one o'clock. The amangement was that after doing six furrows the ploughmen should report themselves to the secretary, and have their time noted. A resting spell was then allowed until twenty-seren minates to two ocluck, after which work was resumed and the " lands" finished - the time being sgain riv
the close. Owing to misunderstandings and ola. causes, this rute was not very strictly observed, and ome confusion was the result.
During the progress of the work the keenest interest ras manifested in it. The immense crowd of
spectators moved continually around the field and through the contre of it, examining and criticising the work. Each ploughman had a few admitera who would insist upon tras elling alongside of him-adyis. ing lim with the best possible intentions, though onen to his material disadvantage. Some of the competen to his material disadvantage. Some of the com-
penring in mind that they had so much petitors benring in mind that they had so much
work to do in two hours, pushed ahear as if that wero the sole consiteration in the match. Others proceeded more cautiously, watching, almost nerrously, overy mod they turned to see that they made good work. There was some capital ploughing done. Here and there a ploughoan would cat his furrors straight, "pack" them finely, and cover almost every blade of grass. Hut this last achieveamost every blade of grass. Mut this last nchieve-
ment seemed the most dificult. There were some who neither surceeded well in "packing" nor in "corerlug," but a good many who succeeded well in the tormer failed to come fully up to the mark in the latter respect. The practical taen who had come there to see excellent ploughing, and to be satisfied with nothing else, were not slow to detect any shortcomings of either kind, and many a poor fellow who was making work that anywhere else would have bee passed as good, was most unfavorably criticised.
The average time made was not quick. The record The arerage time made was not quick. The record
made of it would indicate that only one-fourth of the made of it would indicate that only one fourth of the
whole completed the task within two hours. This record, however, was not very accurate. The confusion in referonce to the "resting spell" allowed after the completion of the first six furrows formed one source of inaccuracy. The Association had not provided the Secretary of the Matel with any shed or stand to serve him as an office, and it was sometimes stand to serve him as an office, and it was sometimes
difficult to find bim-a circumstance which doubtlegs difficult to find bim-a cir
led to other inaccuracies.
The judges moved about rigorously during the afternoon, examining the work of the candidates, and by the time the ploughing was completed, were apparently pretty well prepared to make their report to the Secretary of the Association. Soon after their to the Secretary of the Assuciation. Soon after their
return to Exhibition headquarters, the following return to Exhibition head
award was made public:-
First Puze.-For the best ploughing, according to the rules of the Association. I'rize presented by Mr Joseph IIall, of Oshawa-one of his Combined Ohio Reaping and Mowing Machines, with all the latest inprovements, finished in superior style, Walter Hood, Ancaster, valued at..
Second Prize.-For the next best ploughing, according to the rules, the Iron Plough which shall take the first prize at tho Exhibition, shall take the first prize at the Exhibition,
Dougall McLean, Iork Mills, vesue, say...
Taird Praze.-For the next best ploughing, the Wooden Plough which shall take the first prize at the Exhibition, Andrew Hood, Milligan, value, say.
$\qquad$
Forrth Paize.-For the next beat ploughing, a set of Harrows, Ira Rymal, Barton, value, say.. $\qquad$
IItgity Recoxuenden.-Alexander Smith, Barton, (a lad of 17 years of age.)
The Secretary and Manager of the Match-upon whom derolved no small amount of work-was Ar. Jacob ligmal, of Ancaster. In one or two matters of detail the arrangements were a little defective. 5ut, all things considered, the mateh was a great Fuccess - enthusiastic people on the growad pronounced it the best ever held in the Province. such contests hare a most beneficial infuence. It is the opinion of old and well-informed agriculturists that the style of ploughing throughout the country has rastly improred since the introduction of these ploughine matches. A good effect is produced, not simply upon the actual competitor, but also upon the thousands of agriculturists who como to witness their work. It was a pleasing feature at the match in question to see so many farmers sons-youths scarcely "out of their tecos"-in the gathering. The interest manifested by them in the profession to which they are being bred, encourages the bope that when thes come to be the farmers of the country our agricultural interests will not suffer in their bands.

## Report of the Judges on Grain.

Tue following is the report of the Judges in Class 31, comprising grains, field sceds, dec.:-
We, your Judges in Clnss 31, beg to report that we are well pleased with the arrangements of the various articles in this department, each section being so arranged that we could proceed from the one to the other in regular order.
We are deeply sensible of tho importance of this department, and bence baro proceeded Fith our work
with much care, and have endearomred in all oases to arrive at our decisions and render our judgments according to just morit. It is quite impossiblo to render a just decision without due comparison. Thie we have been most caroful in, using magaifying power where necessary in detecting dopects. This we found most particularly essential in the leaser grains and seeds.
Notwithstanding the general cry of the failure of the wheat crop, wo wero pleased to nind such a fair representation from various sections of the Province, and the samplos being so extremely good, inclines us to think that the statements generally made of the failure of crops, have been somewhat exaggerated ; the quality of the several lots are also very good.
In the competition of 25 bushels for the Canada Company's prize, we have seldom seen such fine lots, thoy being particularly free from any intermixture.
We consider a great improvement has been made by the Board in the new arrangement of classification in sereral of the serntons, particularly in the spring wheat. Although soveral eutries rere made in the additional section for any other varicty besides the two preceding, "Club " and "Fife," set we did not deem it proper to award a premium, as wo did not consider them distinct rarieties from the two other sections, notwithstanding that ther had varioug names attached to them, and in somo instances the Fery identical wheats were shown in tro sections. We cannot speak too strongly condemnatory of the practice carried out by many exhibitors, who know they are infringing the rules. We, however, lay the parious samples before the Board for your inspection and consideration, and if deemed necessary, will
arard as the Board may determine. Your Judges arard as the Board may determine. Your Judges did take upon themselves to open another class in "white field beans;" there was no section for the larye kind, and we have awarded the same as in the small, thinking it had been omitted by mistake.
In the extra class, some of the articles could not be found, and others were so trivial in their nature that we did not deem them worthy of consideration. We have, however, recommended a prize for entry No. 2, " spring ryc."
In conclusion, your Judges rrould take the liberty of suggesting to the Board to discontinue the method adopted this year of putting the names of the exhibitors upon the entry cards; unsuccessful compotitors are apt to cast a dur apon the judges and atribute their decisions to favouritism.
E. A. NCNAIGGITON, E. C. FISHER,

GEORGE WALKER, J. G. WORTS.

## The Flax Meeting.

A yeerixo was held on Thursday at the Rogal Hotel, IIamilton, with a view to the formation of an Association for the growth and cultiration of flax. Colonel Johnson occupied the chair, and Ilugh C. Thomson acted as Secretary. The chairman haring called the attention of the mecting to the object for which it had been convened, entered at somo length into the importance of the cultiration of fax. The meeting was also addressed in practical speeches by Messrs. Donaldson, Ferguson, Denison, A. E. McNaughton, IIon. A. A. Burnham, Hon. II. Ruttan, and others, all of them dwelling upon the importance of the subject. A resolution was passed to the following effect, and the influence of the gentlemen present at the mecting, augurs well for the success of the movement - -"Resolved,-That this meeting, feeling it important that something should be done for the growth of fins, do memorialize the Agricultural Associntion and the Board of Agriculture to take into their consideration the propriety of joining in the formation of a Flax Association." A committec was appointed, consisting of Professor Buckland, Col. R. L. Donison, and Col. E. W. Thomson, who have been instructed to associate with themselves four other gentlemen from different parts of tho Province. Fith tho view of preparing a constitution for the proposed Association. Such a socicty, assisted in its earlior stages by the belping hand of the Agricultural Association will prore, we doubt not, a rery ralusble institation.

## The Annual Meeting of the Provincial Agrioultural Association.

Tuss meeting wias held as usnal on the last day of the Exhibition, the President, Col. Johnson, in the chair. J. C. Rykert, Esq., of St. Cathariues, was olectod President of the Association for the ensuing jear, Noil J. McGillivray, of Glengarry, First VicePresident, and J. P. Wheeler, Esq., of Scarboro', Sccond Vico-President. R. L. Denison, Esq., was ro-elected Treasurer of the Associntion. On motion, London was unanimously chosen as the place for tho next exbibition. Some discussion was then had in reference to the amended Agricultural Bill, and a resolution passed approving of it. The resolution of which the Council hat giron notice in Tue Canada Farysir and Journal of the Board of Arts, to the effect that the by-laws bo amended, so that members, instead of receiring season tickets, should receire four single tickets, each admitting one porson, was put and carried. Votes of thanks were passed to the retiring President, the railway and the steamboat companies, tho IIamilton Local Committee, and Mayor and Corporation, for the manner in which they had aided tho objocts of the Association. The meoting then adjourned.

## The Retiring President's Address.

Os learing offico, Col. Johnson delivered a very able, and practical address, which we regret our inability to do more than briefly refer to in our present issue. In our next we bope to be able to publish, if not the whole of it, at least the more valuable portions.

## Opening of the Halton Agricultural Hall.

Tue Agricultural Society of the County of IIalion haring erected a spacious hall in the town of Milton, for cxhibition purposes, the building was formally opened on Friday 23rd ult., when a celebration of a rery interesting character came off. A large and influcatial assemblage of the yeomanry of the county, with their wires and families, gathered together to do honour to the occasion. The exercises consisted of addresses, music and refceshments, and the lireliest interest sppeared to be taken by all present in the rarious procecdiags. The hall is a commodious frame building, ornamental in external appearance, and convenient as to internal arrangement. It is forty feet wide by cighty feet long. The posts are twenty-two fect high, giving ample room for a gallery mbich runs around the interior of the building. It is built on a plot of land cight acres in extent, which has been purchased by the Society as a permanent show-ground, and which it is intended to improve, ornament, and fil up as means may admit and occasion require. The agriculturists of this fine county have done themselves much crodit by their praiseworthy energy in this matter, and the arrangements they havo made for the conrenience and efficiency of their fairs, cannot fail to hare a most beneficial influence upon the farming interest in that region of country.
The proceedings of Friday last commenced about three o'clock in the afternoon, the hall being well filled, both abore and below, rith a bighly respectable audicnce. Joshua Norrish, Esq., of Nassagaweya, President of the Society, occupied tho chair. The Rer. Mr. Tremaine offered upa prayer for the Divine blessing on the ocoasion, and on the community at largo.
Colonel E. TV. Thoxsos was then called upon to deliver an address. Ho spoke but bricfly, congratulating the assembly on the auspicious circumstances under which they had met, nad on the evident signs of thrift and progress which wero to be suen in the town and counts. Me also made some practical obserrations on the best modes of farm management, and concluded by expreasing the hope that the new ball might be the scene of many pleasant and useful gathoring in timo to come

Professor Becrsase was then introduced to the meting, He commencent by referring to as vixit he hash mathe to the town of Millon some tra ar hiry thers there were many plensing indtrations of the advanced and prosperous combition of the farmers in the County of liatom. There han, hownere, manifenthy been great improcenemt since, and the erection of the hall thes ham mit to open was a proof that the agriculturists of Hation were dutermited not to be ing the buekigronad. The spenker then proceded to int be haetground. The sperker han proceeded to give some of the result at his obervations in :
rather extemed four he han recenty made in the rather extembed four he han rechly mathe in the
Conted Sthes. He spoke at some length of the Cheese Factory system, and its practient working in thuse hecaltites where it had been introduced, snd expresed dse opinion that at heast in some parts of
Cameda the adoption of this systen wond be fomad Camada the adoption of this systen wonid be fornd|
advantagems. There were dimentios connected advantageons. There were difleultios connccted
with it, but cheese coutd be manufictured more cheaph, ami of more miformiy good guality, on tbis Han than on the plan of private daries. Ile then befermat to the cutture or hops, which was very largely carried on in some parts of the State of New Tork, erpecially in otsego and livimystome combtics. it hat been foond highly remuneraire there and might be camally so in this comary. especially now that the inmort duty had been taken of the artiche amd the Brithil market was free to all the wordd. He would not commend the crop withort a word of cantion, espectally to the mexperienced. It required some outay. athe if not properly managed. loss might be incurred. Ths stason a new msect enemy to the hop: had mate th appearance, and giten mich tronble to
thase engaged in the colure of this plam. in conthase engaged the speaher alluded to the great renources. mergy and progress observable across the bines. There "as mach to commend and imiate in that
comatry, esproilly in the improved methods and coantry: especially in the improved methods and appliances in tase on the farm. There was atso mach to deplore. especially in comnexion with the unhapy war now ruging. and Canadians comld not be too inamtinl for the bhe eing of peace, which he trunted mughe ere long be sestored to the nigacent republic.
Mr. Chathe, Editor of Tus Canabs Eapyen, was the next speaker. He expressed his gratitication at the opportuity of mectimg so many of the agricnimitis a strabme. The kinuly reception given him was toubtess atributable to his comection will tra: Fasxer, and it was lout a gample of the general interest manifreted by the farmers of Canada in that journal. Its present circulation was mostencouraging, and there rras every prospect of its being increased. For mach of the ponare anm pront they derived to the able asisistats who were associated with him in its management Not the fogat intereating mal use ful feature in the paper hat been be commmimations from practical farmers, nany of whom had emplosed their pens very vigorously. This feature, it was to be lopped, would contimne to he a prominent one. l.et all fum themablyes invited in constibute to the general gond Idesa and lacts in whatever garb would always be welcome. Eren fantstiniling, if not umreasonable, would be hailed as one means of athaining the ercellence and msefalness that were most carnestly desired. Sonetimes criticisms had been mate which were amusing on accomat of the misconceptions they betrayed. Thus, not lonf siace. a correopondent sho signed hmself "Harty home spua, hack in the hish, hat complamed hast Tut mandy a strle of farming and the writer abteresed manty a syyl of harming, and the write onersad that be sapposed the editor was an oif-hared, softhanded city dandy, who had nerer heare the erash of
 of hig efars were be to do so The gapener knes
comething, however. by personal experience, of the toils of a farmer's life e having chopped, logged, and put in birst crops with sones of the pionecrs in a wes tern locality, wad from a high appreciation of its importanco hat always taken the drupers inturest in all that pertained to the adranerement of Camadian agricuture. Looking at the state of the farming interest in this coumtry, many bings pregented them selves as desirable improrements. It was evident that agricuttural industry must seek new channels, and as cortain products which have bern hargely depended upon uppeared to be failing, we must mdearoar to supply their place. A system of rotatrofessor Buck ind bad supeeved the trial of the clecese-foctory plan of dairyitge, and already one or checse-fackory phan of dairysg, and aready one or County of Oxford. Others kere in progress. He had
 just returned from the new zork state far, where he
 Checge Vat, who stated that he had sold speral of his
vats to parties in thin conntry who had his estabhish tats to partiers in this country who had the establish
mont of chove fectorim in vew Thr apoker then
spoke of the imervasel athention which was being given to thax. mat commonded the "amubie of a neighourhoot in the eastern part of the Plovinec. Where the farmery bal revently met to comiter the dax question. and un a number phodghe themselves to mise suflement thax to keep a semethag mill in cperation, parties at once magaged to erect one. Sheep-farming, the colture of frubt, and beekeeping, wert succusively dwelf upon at smar lemyth nu do Bersing more ationtion on the part of the farmers of damala than they were at presub rectiving. In conclusion, the importance of rasing the agricultural cathay by comecting more intelligence, seientific accuracy and juliciont mamagement with' its operations, was strongly urget. Toomany of the aspirime roung men of our country allowed the uselvers to took down upon farmin? as a vocation anvorthy their thents amd enervies. This was a mistake. Nocalliag afforded better scope for mental ability, or a fimer mid for the edncated man. Though the farner might not have a great deal of leisure for reading and stady amil the aetive habours of his vocation, he was quite as farourably sittated in this repped as the profes sonal amd business men in our cities. Let our young muintr in pablic esteem a profescion io itelle a mos? woble one, and as they bring science more thoronghly into parthership with bahoar, furming win become fess a drudgery. labour-saving implemonts will reheve the stain npon the mactes, and such enjoymen sill be derived from that contemphation of natare that sulse of inhependence and those opportunities or retlection which are so characteristic of life on the Un.
Wa the concheston of Mr . Clarke's address, a pre sentation ceremony took place. A hamhome gold batch was preseated to Mr. W. C. Heaty, as an ackwowledgromt of his iftheient and rihable services as Secretary of the hathon Agricuthan Soriny for several years mast. Ar apprepriate presentation
address was rean by Ar. J. 3lcGonim, and replied to in very becomiag terms by ifr. Heaty. Teanad varions other refreshmens, abundantly providen by the ladies were then passed romed, and while emjoymg them the asembly relased into sociality. Order being again called, several brief addresses were delinered by centlemen residing in various parts of the connty, and the meeting at length broke up, all concerned feeling fat it had beem on must arreable, successful, and satisfuctory festivity.

## The D. S. Pomological Society,

Toms Society leh its biemial session at hochester, Y , commencing on Tucodiy, 13h ufesent, aml contimuiag until a late lanar on Thargday evemng There was a latge attendace of the most distan guished Pomolugiets of America, among whom we noticed Mr. Chas. Downing of Sewiourg, N. 3.; Mr. Hoves, of Boston; Mr. Buist, of Philablelphia; Dr Warjer, of Cincmana, Uhio; Mr. Knod, of littshurgh, Pemor Dh. Edsards, of in Laus, Messouri: Mr Parry, of Cimaminson, vely Serses, and othes. The entire delegation from the Fruit Growess Socicty of Cuper Cannda ware als mesent.
The first day was spent in hearing the experimen of genthemen from diferent places, with apples of diferent kinds, must of which were sonthern or wes tern sorts not well adapted to Canabian colture.
On the morning of the second day, Dr Trimble, of New Jersey, aduressed the Soriety upon entomology, dwelling upon the importance of a more intimate acquaintance with the habits of insects, and to the ruitgrower especially of those inetets which feed ppoa he fruits. He dwelt at some fenglh upon the Codin Moth, which infests unt appes, and showed last by placing old cleots in the Sorks of the branches, or by fristing a straw rope a few times around the trunk of the trees, these moths would gather there to undergo their trustormat
eavily fums anil destroven.
The Society then passed to the consideration o grapes of dinerent sorts. The adizondac wab found to be about as batdy ns the landua, and a few days earlict than Hartford Probific. The Crevelung was a few days later than the hastford lrolific, ripening between that and the Concord. The Linion Village and Ontario were considered identica, and the Fociety roted unanimonsly to strike the mane "Onario" from the catalogue. It was thought to bentront as yood as the Isabella, and to require protection (keweca was sumciently carly for most parts of the isabells faritakes, is too lato for the gy as the New York, but may do as far north as Xhiladelphia The lona is gerfectly lardy, oo far as tested, tipening
with the Delanare. The Isabella was reported by br. Grant to be peofeetly hardy mon carlier tham the
 antoducol, amm great variety of opimon semed to exise as to their merits. Allen's llybrid might wo a very goon grape for the ambem, growing with the Rebreca mad Adiromdae. The Gugaluga rigens with lue Catawha.
The Society spent congiderable time in a very interesting discussion upon the proper mothod of preparimg the voil for planting grapes, and the lwst melhods of phanting, training and cultivating. We
may fire the substiance of this discussion at another may
P'aches, laspherries, Strawberges, Cranberries, and lears also received considerahle attention, and we will clase our notice of this interesting mecting by calling attention to the statement of 3r. Moves,
of loston, that a gentiman of his nequantance realized from tea acres of cramberries the sam of ten thonsand dollars.
The Society adjourned to meet in the eity of St. Lonis, Missouri, in 1866.

Uurer Cavad Frot Ghowera' Association- Tho next meeting of this Association will be held at tho Town Hall, in the town of St. Catharines, on Wedesday, the sth day of Uctober, at $20^{\circ}$ clock, p. m.
This will, undoubledly, be a very interesting meeting. A fine display of fruis especially of grapes, may be expected; and much information will be impated by the members regarding their success wath difereat varieties, in different soils and localities.

Avemeas Stars: Fams-Most of these have now been held, and notwithstanding the unfavourable circumstances created by the war, have proved very successful. We took the opportunity of attending the Ohio and New York Fairs, ams were much pleasen? with the display of products. In a future issue we purpose giving the results of our observations so far as they are likely to be of interest to our readera.

Tus Unton Exmmonon-We are pleased to leam that subscriptions being collected in order to provilu prizes for exlibiturs at the Union Exhibition, to be held in Toronto on the 5th and cth praximo, are fir more than it was expected they would have been when the committey undertook their labours. Seeng that this is the case, the commitere have tecided to give prizes to the amount of $\$ 1,400$ intead of 3 goo, as was at first proposen. Already about 31,200 has been promised and with a hithe maining sumy required to make this a successful maining Bum required to make this a successm meeting will soon be secured. The West Riding
of the county hare witudravn from the union, and hold their extibition in lork ville, the werk follow ing the Union Show in Toranto. Owing to the small amount nt first at the disporal of the Committee, they tad decided not to allor entries for live stock and farming impluments, but since the acquisition of the increased funds, woth these are now included in the prize list, with the exception of stallions and bults. The cxhibition will be held this year in the Cryatal Palace, the same as hast, and shonld the weather proce propitious there is every appeamace of a large mecting. The following is the appropriation mate out for $\$ 1,400$ to be distributerd in prize money. Agricultural Department, \$540; Fine Arts, $\$ 120$; Manuktactares, $\$ 310$, Horticulture, $\$ 400$. Submerigtiuns to the amemnt or $\$ 600$ have been takea up. The City Council granted $\$ 00$, and the Govermment grant amonats to $\$ 300$. Mr. Sheriff Jarvis has been clected permanent chairman, and Mir. Edwards, ecretary and treasurer. Mr. I. edwards in the daties of secretary. The committer and the officers are sparing no excrions which 3 ill render the anuual cxtititions as perfect and seceess. full as posible.

Fans Exmmetons.-North Riding of Oxford, Fondstock, Fetoler thand sth, open to all

The Fall Show of the Smith, Harrey, and North Douro Ayrienltural Society, takes place at lakefeld on Tucsday, tho tha day of Uctoler bext.
The Anaunl Show of the County of Ontario. South Riding, Agricultural Society, will be beld in Whitby, on the 5 hand 6 ath October.
The Sinth Annual Exhibition of the Dammer and Douro Agricultural Society, sill be heda at the vitnouro dgricuitural society, sill be held at the vil-
lage of Wamaw, on Thesuay the lun day of Uctober.

## ghtigrtlaurous.

## Weather and Crops.

A " C:anadian Furmer," writes from Derly, County Grey, Scpt. 10th, 1861. "The harrest is now well nigh over in this locality, alhough there are still some 'patches' of late oats to cut. The weather, on the whole, has been very propitions fur harberst operations. For about eight days the weather was ratier broken, and did some little damage to cut grain ; but with this exception, it has been all that could be desired; and lthink that, generally, grain has been housed in excellent condition.
" With regard to the gield, it will be fully equal to that of last year in the amount of grain. although not more than half the quantity of straw. The quality too, is excellent-the average, I should say, judging from what I hive seen threshed, will be from siateen to cighteen bushels of epring wheat to the acre. Fall wheat will yield somewhere about twenty busbels per acre. Barley and oats will not yicld quite as well in proportion.
"The week of wet weather in the middle of harvest has wrought wonders in the root crops. Potatoes and turnips are growing finely; and parties who, three weeks ago, despaired of having any of those valuable roots, now expect to realize a fuir crop.
"The grain has not been infested with aphis this year, but there was a small white worm, sinilar to the pea grub, that did some damage to the wheat crop. but not to any serious extent, although some of our farmers, from having heard of the ravages of the midge in other places, thought at one time that their crop would be destroyed, and that they would no have bread, beliering that this was the veritabl midge; for, fortunately, we do not know by exper ience what the midge really is. Perhaps you could give us a short history of the midge, its habits description, \&c., which would be interesting to many of the readers of Tus Fanxera, and would save us from needless alarm in future."

Norms frox Oxfom Co.-" M. W. S." writes from East Zorra, Sept. 12, 1861 :-"Conjecture as to the probable yield of grain has given place to the half-bushe test, and a fair estimate may be made as to the general arerage. As far as my own knowledge and re liable information extend, I may safely assert that the general arerage in wheat will, at least, equal that of last year; oats and barley a little less; peas nlso less. My own gield is-fall wheat, is bushels per acre ; spring do., 12 bushels; barley, 20 ; onts 20-all of which, I think, may be considered a full arerage of the township. I bare heard of 40 bushels per acre of fall wheat, but hare not seen higher than 25 bushels. Apples will be abundant and larger than expected; the late rains having swelled them out immensely. Hoots may be good, but cannot possibly be large.
"Flax has been sown to a very large extent in this neighbourhood, one farmer having about thirty acres, and while the straw is almost is heary as last gear, the seed is not as good, and the yield of flax will be much below an arerage. This is becoming an important crop, and while the wheat is so infested with insect pests, it will be wise for farmers to turn their attention more fully to this branch of operations.

- Failure of Wheat after Ternipg.-Will rome of your chemical currespondents tell us the reason why wheat almost invariably fails when succeeding root crops, especially turnips?
" I. " writes from IHay, Muron Co., Scpt. 21, 1864 : -"The long drouth came to an end about the uiddle of August, and rain fell in abundance during the rest of the month, in fact the latter end of the inarvest was rather catching, and although it scarcely got the length of injuring the crops of those who hall patience and waited, yet a good many farmers, with that exaggeration of fear, so aptly illustrated in a late No. of The Casada Farmer, by the lapyer and his potato, hurried in their grain before it was fit. They are now finding a tough tbresh; and some of them will find a dull market.
Haryest was well over, gencrally speaking, in this and adjoining townships, by the end of August; some two weeks earlicr than usual. The next move was to the summer fallows, for fall wieat sceding. The ground was rather wet at the start, but by the Tth and 8th of this month, got in fine condition to receive the pecd. Ifere and there, some are still sowing, but by the 14th it was generally ofer. There bas been a
very large quantity sown. For several years past, but little fall wheat las been grown in the Eastern portion of Ilay amd Stanley, or in Tuckersmith, or Oshorme, but tempted liy the good crops realized by Oshorme, but tempted hy he good erops realized by
the few cantious ones who tried a few acres, those the few cantious ones who tried a few acres, those
two years past, and excited by a different kind of two yeary past, and excited by a different kind of
exaggeration lhan that mentioned above, erery one is at it, and he is no farmer at all who bas not soved this year from five to twenty acres. Those who risk nothing but a well manured sumner-fallow will likely come out all right ; but almost every kind of stublle is beiner turned over and sown. I am doubtful that some will reap in sorrow.
The threshing machines have been busy, sumiciently of at least, to give us data enough to determine the yield of spring wheat, barley and oats. As was expected, the guality is good, but the quantity to the acre small. Spring whent from 10 to 16, barley from 15 to 30 , and oats from 16 to 35 busbels to the acre. Those figures tell of a lightish crop. and as the price is likely to be low, we must make up our minds to stuly prudence and economy at least one year longer.
The weather, so far through this month, has been plendid. In the enjoyment of the clear, cool sunshing days, one almost forgets the rigorous cold and scorcling heat of the past. The fields and woods are clothed in verdure of deepest green. The beasts are luxuriating in abundance, and are fast making up for the scants herbage of the past. It is difficult to recognize the gaunt, excited-looking animal of six weeks ago in the well-fed, sleek, meek-eyed animal of to day. The passing stranger, judging from the face of Nature, could at present see no premonition of the winter, that will so soon be upon us; but the old resident can already see the soft maple leaf with an altered colour, pecping out here and there from amongst the mass of green foliage. He knows that in a tew weeks its mates will be sere and yellow, and that two short months will bring us 'geldsand forests bare."


## Hydraulic Power for Stamping and other Machines,

## To the Editor of Tue Casada Farmer

Sir,-Sume back No. of The: Casada Fabmer contained an article from W. S., of Woburn, in which were some pertinent remarks relating to the application of hydraulic power to the extraction of stumps. I purposed then to notice the matter in an article on the subject; howerer, going from home shortly after, the matter was set aside. But now, on mysreturn, seeing in the No. for lijth August, an article from "Nota Bene, "of Sydney, which shows plainly that the hydraulic press is not comaonly understood, I an induced to send the following :-
The hydranlic press, which is constructed on the principle that all the particles composing a body of water, when confined, are equally affected by pressure applicd to any portion of it, is composed of two tabes of unequal calibre communicating with each other, having each a water tight piston adapted, the interspace being filled with water. If the piston in the smaller tube be forced down, an upward pressure through the medium of the water, will be exerted upon the larger piston, the whole force of which will be in proportion as the aperture in which the larger piston works, is greater than that in which the smaller piston works. If the smaller piston is half an inch in diameter, and the larger, one foot in diameter, then the pressure on the larger piston will be 576 times greater than that on the smaller one. Thus, let the pressure given to the snall piston be one ton, the large piston will be forced up, against any resistance, with a presare equal to the weight of 576 tons. It would be easy for a single man to gire the pressure of a ton by means of 2 lever. A man would thercfore be able, with this engine, to exert a force equal to the weight of near 600 tons. It is erident that the force to be obtained by this principle can only be limited by the strength of the material of which the engine is made. Thus if the pressure of tro tons be given to a piston, the diameter of which is only $\frac{1}{2}$ an inch, the force transmitted to the other piston, if threo feet in diameter, would be upwards of 40,000 tons, a farce far too powerful for any material with which we are acquainted.
I feel fully satisfied of my ability to furnish the plan of a machine that would work efficiently in the extraction of strmps, on the abeve principle, such as "W. S.," of Woburn then pointed out, which might justly supplant the many arikward, inconrenicat, and inefficicat modes of extracting them. Further, I am sanguine that I shall get be able to apply this powerful agency to machinery in general.
Romney, August, 180t.

## gentry.

## !The Ploughman.

## at olivia wexdzli, hocmes

Clakar the brown math to meet has coulter's gleam in' on he comes, belind lis smoking team, Whth toil's bright dewdrops on itis sunburnt Uroir The tond of earth, tho hero of tho plough! Fist in the theld, befuro tho reddening sun, anst in the shadowa when tho uay is cono J.ine after line, along the burning sol, Marks tho broad acres where his feet has otrod, Still, where he treded, tho stubborn clods divide, Tho smooth, tresh furrow opens ieep and wide; Matted and dense tho tangled tutf upheaves, bellow and dark tho rides corn- Deld cleaver. Up tho steep Lillside, whero tho labonng tran Slants tho long track that scores the level plain; Thro' the molst ralley, closged rith oozing clay, The palient conroy breaks its destined way. At overy turn the loosening chains resound, The swinging ploughshare elreles glistening round, Till tho wide feld one bllow? wasto appears, and wearied hands unbind tho panting steer Theso are the hands whose sturdy labor bring The peasants' feod, the golden pomp of kings; This is the page, whose letters shall be seen, Changed by the sun to words of living grecd, This is the scholar, whosu immortal pen
Spells the inrst lesson taught to lungry men These are tho lines that heaven commanded Tunt Shows on his deed-she charter of the soll.

## Agricultural Enigmas.

## sumbek 1.

I am composed of nine letters.

1. My 1, 4, 7,9 -You must keep warm and dry to preserve your health.
2. My 5, 2, 3, 7-Is what every farmer should have. 3. My 7, 8,9 -I hope you will always be able to do heartily.
3. My 9, $6,2,4,1-$ Is one who is unfit to be trusted. 5. My 3, 8, 9 -Is how a farmer wishes to see his cattlo.
4. My 9,4,8-Is an agricaltural product of warm climes.
My whole is a kind or grain.

## NLMBER 11.

I am contained in eight letters.
My 8, $6,4,1$-Is a valuable article of a cleansing quality.
My $2,4,5,8$-Is excellent feed for horses, de.
. My 3, 7, 4-Is a stimulating drink, universally used.
4. My $1,7,4,8$-Is a grain, excellent for fattening 8wine.
$\mathrm{My}_{4}, 1,7$ - Is an animal of the monkey tribe.
My whole is a uneful root, described by a certain author as the "Crutch of Life."
Rugby, August, 1864.
J. S. JOHNSTON.

## 

## Teremite Marketa.

"Cumada Fanion" ompe, Oct 1,1804.
Fiour impioving, supersine and fancy it 23 per barrel, cxira $\$ 40$ to to 8475.

Stiot
Platl
Sprin
Sp
Sprong Wheal held at 58 c to 88 c per bushel.
Barty 3 cure as 82 C to 88 c per bushel
Oafe unstemy at 350 to 400 for Canadian.
Ireave 55 c to 62 C per busheL.
Ryy 560 per bushel.
Ilay ta good supply and demand at $\$ 12$ per ton fur bost.
Strave actire at $\$ 7$ to $\$ 8$ per ton
Promsions-Zhutter-Fresh, wholemile, pet lb. 13 ce to ISc ; rete
 10150

 ${ }_{1}^{14}{ }_{\text {Che }}^{\text {La }}$
 qually, \$4 to 8850 ; extro 48510 sk

Lambs onch $\$ 2$ to $\$ 225$ foo proud
Cavives-Each $\$ 3$ to ${ }^{3 /} 4$
Hides (crect) per 100 lbe, 34 to 85

$\operatorname{lambshins}^{25 C}$
Coal 87 to 88 per ton
Food ss to th 75 per corra
Salt $\$ 123$ to $\$ 150$ per Dot



IMamilton Marketa-Sept 59 - Fiour-Sumunn No 2



 10 13.




 supplys. and by the quarter rory cheaph Beff 32 to $\$ 330$ pre 100



Guelph Marketa-singl 3a-Fall theat, per bushel. ise






 bushey, $\$ 150$ - Hercury
Nemedime Marketn, Sepl 22-Flour, por barrel, \%S. Corn meat, ther 100 the, \$1 30. Buckerkeat, Flour, por 100 lbs, Osc Rye, per bishol, 6 sc Corm, por bushel, eoc, Bariry. isc
 pert ib, oc Hay. per ion, si, Firenwad, per con, is is Sall, Hessenger.
Helleville Markela, Sopl 29th, 1804 - Xarket for Rariem cory dull oxtax to tho suctuations in gota, 82 c in the highest thas has tarn pash this wrek. yesterday $1 t$ was doll at isc, buyers holi. ng off Whrat Soc to ssc for mpring, goc to osc or fall Rye eoc

 no frest purk has s ct teen brought in: mese $\$ 18$ per br. A wuthon,

Kinguion Markets. - Fiouy $\$ 2$ to $\$ 2$ 2s percerl Graiy
 $3 c$ prer to. Jlams, 10 c to 1.5 c , shoutders Sc to 100 perit. Lard, 10 c

 Amencan, Apples tes nlents and prices hicher- $\$ 150$ to $\$$ ner


Ottawa Markets, Sept 2ith - Theal-Fall nheat, per













Montreal Markete, septerabes 201501 - Flour. per har
 40, Sur tho from Canadian whati, $\$ 120$ to $\$ 140$, Supcrino from Trastern wheat. $\$ 420$ to 8425 ; Westera States nour. I4 15 to $\$ 4$
 $\$ 2$ po per 112 she Fair demand fmom local dicalers, tmall salea of all grades alkove Na 2 quoted-Superfine at $\$ 125$ 2o $\$ 435$; Fancs

 per barrel of 200 lbe-- Not much doine. Hess sold in small lows ai
 Good Dalry alout $\delta$ ic to s?ac. somo chotco parcelg havo beought extremo ratca
Beanharnois Marketa, Sept. 26th-Peaf, per 00 lus




 incks, 25 c io 30 c . Turkeys, ioc to soc. Becs $\mathrm{Hax}, 20 \mathrm{c} 25 \mathrm{c}$.
New York Marketh, September 30 - FTour-Meceipts
 cxtan State, $\$ 840$ to $\$ 8$ es for cholco do; $\$ 800$ to $\$ 820$ for super. now Wessern, 8850 to 19 is for common 20 medtuol extra wess. lent, $\$ 930$ to $\$ 1000$ for common to 8001 shippligg brapds extra


 bushels nt $\$ 202 y ;$ cholco amber Milchlgan, at $\$ 18010 \$ 103$ for spitg in iots Ilye harary $3 c$ to st lower, Baricy dull and nomi sites 36.000 busthela, at $\$ 150$ to $\$ 1594$ for mixed wemeth oats



Bufmio Marketa, Syith 29 - VVour-Tho matrot is rery 50, Extras late $\$ 8$ is to 89 iritat mathet dull Corn stands Oais stendy Harley fin at $\$ 2$ Rye in farr reviuct at $\$ 1$ zs prunstuvs-iturk in botior supply, with minall smes, hicary tross at $\$ 11 \omega \$ 12$
On wezo Marketn, Sept :9.-Fiour nimer; but Jullt, for $x$ bilio and sio is sprng; $\$ 980$ fur red winter, $\$ 10$ to $\$ 1020$ but qulet, No. 3 Chicago sprang hoid at il 80 ; Na 1 Mllwaute Club, $\$ 1$ on, Na 1 minter red Indiana, $\$ 2$ Rge lield at $\$ 160$ for cilan, without andu.
 to asc tracel dull; smed at $\$ 16010 \$ 1603$ fur No 2 Corn vary dulland declland ic, pale at 3130 for sio 1, and $\$ 129$ tor the market han been quith the recelpts betag rasiticted, nat cun siatiag entiruly of modlum and common grates of stock, Enterei salos bso hoad, at 8325 to 85 尖, chitety at 8325 to 84 pe 100 lby l'rerious quutations unchangel Hogs have beca 19 moderain supply, with enternd galed aniounting to yia head, at fo
 quier; price weak, wlth a downwant tendency.

## gaductizements.

Credit Sale of Inported \& Thorough-bred
CATTTIE \& SEXEXP,
Conslating of Durham, Galloway, and Ayrshire Cattle, Icicester, Durham, Galloway, and A yrshire Cattl
Cotswold, and Shropstiro Lown Shers.

M

ON WEDNESDAY, OCTOBLIR. 5, 1SOL, tiax rolionina stocr, cossastixa or
2 Ono-srar-old Dariata Bulla
Spring calts do do
3 anoway
do one-scar-old Ileifors
do Helrer calr
4 Tro and three year-old Grade inelfers

## SFIHITP.

10 Inported pure-bred Cotswold one Sbear Rams,
so the two and threc shear Ictureter and Cutariv) Eive
8 Ielcestct Firo Iambe
Shropshire lown Him Inmba,
Imporied Yorishar Reding Sow in plg, winner of thece inst Iro
vincial prized
TERMS OF BALE.

All sums of $\$ 25$ and under, cash, orer that amount, tretre months credit on approved joint notes salo to commenco at 11 a. 1 yarhham is disisnt fmm sear A Staso runs daily frum Tonuoto to Markham Vllage
October 1, 1804
17.18

CIDEIR MIXX SCIRXW:

## PRICE

WE amo making thi cheipers and bFST CIDER MHLL
 ing ius. i"s ime Addross E. F P. \&F. S. CO.
Also, PLYIS or all kinds for Farmers' use
18.:4
J. A. RLYSEY, Treasurer,

TURN-TABLE APPLE PARERS.
THE St-nSCRJBER is Manufacturcr's Agene fur the snde of the
WHOLESATE AND RETATL,

## At low Pelces ros Clan

This APPYE PARER 13 unsurpassed for strongth, durabitis and thoroughaces of oxecutlon it will cut cloner to tho
blowson than ang other tnachinc, and oxcela in paring uneren, pear shajed Agples or Quiacer.
N. HEINITTT,

Hardwaro Merchant
18.4

Cornor of Yongo and Adelado Streeks, Toronto.

## F工AX!

FOR DAEIE, a SEED THRFSHER, a CIEANER, and roquire or tho Edior of Tux Cavada Farusk, if by icter, premaid.

## FARM FOR SALE.

THE SC'BSCRIBER offers for salo tho bchulful and fertlo FAR3 of CHERR IBNNK, LOt 10, Ch Concecston, Burfora, contaisng 136 acrea 120 creared. Execllent Frame House, tro Prame Farct and oicher Bulldings, gosd orchard and Garden, Running sock raistig - Conrenicnuy slitated evicry wdy. Price 86,000 and 20 actecs of Fall Fheat given 12

JOHN A. SMITH,
Conlhcart 1. O., Drant Counts.
Sept. 2thh, 1884.
18.18

## WANTED,

CANFAGHIFG AGENTR for "THE GLOBE" and $\begin{array}{ll}\text { Trx Pcsumark, Toronto. } \\ \text { Tofonto, Seph 12, } 180 \mathrm{~L} & 17.24\end{array}$

## BEES FOR SALE,





## DANIKL MCNACGITROX,

Septombor 81 lh , 180t
Springdilo, Onondaga I' O, Ca of Brant 17.24
IMPORTANT ANNOUNCEMENT:
To Breeders, Farmera and Agricultural Societies!
MORETON LODGE, GUELPH, C. W.
M ${ }^{\text {R. TI S G KNOWL.FS begs to announce that he las recolvid }}$ iuo iustructions from Frederick $W \mathrm{~m}$. Stone, of Morolon 1 ouge. of OCTODKH., next bout sucnty had of sery supertor pure-bred
 havo been bred from anmanis of high repute, soverat of which havi
boen awarded First Prizes in thelr claseos, at ihe l'rovinctal Exhibi. tloms Also, a fow young IIEREFORD HELEN of great

Alout forty grand Cotswold Shearling and other Rams, finem superior South Down Rams; a fow the puro bred Letcater lams. Also, sorcral palrs each of puro bred Colswold, South Down nud Ielcesser ewres About any pure-bred borksble lifs berci from drst-class imported animals), or various agea caraloguieg pedigrees and other particulars, will bo ready Mo isue oy arst of Mr fir ind Sorton Iovga, Guelph, 12th Seph, 1864

## J. A. SIMMERS, SEEDSMAN.

WEST MARKET PLACE, TORONTO, C. W.,
BEGS to loform his ricnds and the publle that his annuat suping, has just arrived in tarstrato conditiva. Tho collection is ianger than unual, apd comprises everything of menth.
J. A.S. only Imports Bulbe of first quathty, and supplies thom as reasonablo as any house on this contlacnh Calalogues, giving doscription and prices, supplicd gritis on application.
Toronto, Seph 15, 1864.
17-2t
PERUVIAN GOVERNMENT GUANO.
ThF understgnal have on band a few fons of this raluable Farmanure, whict they are anxious to introduce among canadian ittles in arder lo give the 3 ancre as wide a circulation as posibie. Should sutheient cncouragement vo glien, they have made arrangements 10 recetre importations direct from ta da prico much below that of any other manure.
The following is oae itfestration or the comparativo reault of the application of different manures at a cost of 18s. for cach, arrised at by experiments mado upon several quarteracre piots of land, by Mr. E. T. Leame, of stover:-

| Kanuro Applied. | Quantity. | Weight of hay cut per lis acra | Cost of 3fanure. | Net Galn. |
| :---: | :---: | :---: | :---: | :---: |
| Noza. |  | 401 lbs |  |  |
| Sup. of Llime...... | 2 2́cwi | 616 | 18. | 215 lba |
| Sith of Sodz...... | $1{ }^{1}$ | $706{ }^{4}$ | 188 | 305 " |
| Guano...... | 13: | 1,210 " | 188. | 809 " |

Furtber statistics, and all other information, may be obtalaed DUNCAN, CLARK \& SCOTT, Ontar!o Hall, Church Street, Toronto

## HORSE HAY FORKS.

ON EXHIBITION AND FOR SAIE,
$A^{T}$ the agrictletural hali, cormer or Yongo and queen Toronto, Aug. 1, 1864

LANDS FOR SALE.
TTWENTY THOUSAND ACRES OF LAND, bolb Fild abd imI provod, and at all price for sule in vitious townihlpa through-
For llats and persiculars, apply to the proptetor, T. D. IEDIARD, Barritter,
coa,
cor or King and Yongotis, Toronta.

Toronto, Masch $15,1804$.
3.45

The Camada Faxuma is prinied and published on the lst and 15th of each month, by Gronaz Beowr, Proprietor, at bis Ofice. No.
tions for tho paper must be addremed.
in advance. Subsiption Frice \$1 per annom, (Poorage Freze, pasabie in advance. Each subecriber will recelve tho buck numbers, whioh aro aluayz to bo had No subecripllons recolved for less than a Fear, and all commence with the arat number, and end on 31st ber, 1864

## Clers will be furniahed at the following rice:- <br> Txa Corrs for. . ......................... . Niss Dorilara <br> Twertr Conts for <br> Sixtixa Dolfars. <br> Fontr Corims for. ......................... Thistr Doinara

To Agrtcultural Socletics ordering moro than 125 copics, the Earxys will be acnt at Sixtr Csare.
Tux Caxada Fakurar prosests a Arst-clasimodium for dgicallural adrertlecticits Terms of advertaing 20 conts per. lino of tisement charged less than $\$ 2$, being ten lines of space.
Commanicatlocs on Agriculiurnl subjects aro invitod, addremed to "The Editor of the Comades firmerg" and all ondert for the
paper are to bo sith to
OFRE BROWN.

