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## The fitio.

Forest Culture.
At the late National Agrienltural Congress, held at St. Lonis, Missouri, the com. mittee on forest cultrre made the follorang report. It is of intercst, as veryfying the experience of many practical men, who have given this subject much study.

Tho forests of the continent are rapidly passing away. Large districts in the Athantio States are alrealy stripped of their most valuable timber. In less than twenty five years the accessible forests in the region of the lakes, on the upper waters of the Misgissippi, and in the British Possesslons adjacent, will be exhausted. Theindustrial progress of the Southorn States is consuming the trees, both desiduous and evergreen, at an accelerated rate. In the Rocky Mountain regions (where the hard woods are unknown), the pines, spruces and cedars are disappearing before the farmer, the miner, the architect and the railrond buidder. On the Pacific coast, the immense home demand, everincreasing, together with the exportation to England, France, Australia, China, Japan, South America, Mexico, and the Pacific Inlands, forctell the exhaustion of the California timber trees in twenty years; and those available in Oregon and regions northward, in a brief poriod.
The demand for the products of the forest constantly increases. The supply constantly, ani in a growing ratio, diminishcs, and prices constantly augment. The causes now in operation, and daily gaining strength, cin have but one effect. that of evhausting all of the available sourees of anpply within the lives of persons now in existance

This appalling prospect, the viow of whech hecomes the more vivid the more it is studiof , should arouse the farmers, land owners and leglslators. It is vital to the fature wolfare of our people that the reproduction of our forests should at once longin, not on a
small scale or in a few localities, but in large measures and co.extensive with our settlements. Abroadstatosmanship, in the Na . tional and State Legislature, shoald at ouce take up the subject, and deal with it year by year, until the great work sball be adequately begun.
The few and hesitating experimests in isolated localities, which have been made in the growing of forest trees, have no signiticanco so far as the general supply of fature wants is concerned. But they are of inestimable value, in so far as they teach the case and comparative rapidity with which forest trees, uscful to the farm, to the work shop and to the railroad, may be produced; and in so far as they show that the agricultural men of the country have already (in advance of the men in high political life) appreciated the necessitics of the present and the future. They are also of value in demonstrating that, however remote the profits of forest culturo may have been heretofore considered, it is yet true that the artificial plantation may in a very few sears, $b_{j}$ judicions planting at first, lie made to yield current retarns equal to the cost of planting and care.
Modification and amolorations of climate, due to the destruction or the extension of forests, have begun to onlist serious consid. eration. There can be no doubt of the beneficial influence ot forest areas equal in aggregato to onc-third or one-forth of the entire area of any extensive region. 13ut, howover important climate effects may be in this con-nection-however desiralle it mas lo that the crops and animal life of the farm shoult enjoy the benefits of forest inluences and shelter, the need of extunive furcat planting is imperitivo enough withunt tahing into consideration its effut on aturuspheric movements, temperatare, or ranf.ll. The store, the dwclling, the wharf, the narehonso -all these, and more, demand activn, demand it in the name of domestic life, of farm economis, of commerce, of all the arts of our cavilization. What we shall save in climate by preserving forest areas, ur gain by their ex. tension, $i=$ just as much to be enjoyed in arl-
dition to otler compensations. The less sio. lent sweep of the winds in Illinois, as compared with forty or fitty years ago, duo to the obstruction caused by buildings, hedges, fences, orchards, artificial grorcs, and wind breaks on the prairies, speak to the anderstanding of plain men more forcibly that any language we could use.
There may be those who regard forest planting as a work of mystorg and grandeur, beyonit the reach of the common farmer. This is a mistaken view. Nearly all the most important deciduous trees may be grown from the seed as readily as Indian corn. Of many speries the seed may be sown broadcast and harrowed in, if the planter prefers to uso the seed lavishly rather than give more caro. She seeds of many trees may be planted either in the fall or spring as may be most convenient. Some of the softer wooded trees grow from cut. rings as readily as the grape; and with most deciduous trees, the seeds or cottings may, $f$ desired, be at once planted where the trees are to stand. Nor nced the most unlettered farmer deny himself the pleasure and profit of the conifers aud evergreens. The plants, furnished at prices which aro insignificant in comparison with their value, are abundant at reliable nurseries, and with the simplo precaution of leceping the roots moist, and proper caro in planting, are as sure to grew as any other treo or shrub.

No part of the earth is blessed with a greater variety of useful troes, both of the hard and soft wooded kinds, than the United Statea; and these native trees can all be seadily grownin artilical plantations. It is not aloue the piaes and spruces and cedars that make up our valuable tumber. The harder wooded trees-the ash, the oaks, the bickorics, the maples, the walnuts, and the chestnuts-of which we have heretofore been so lavish, have a value in the arts thate no figures can estimate. They may bo aadd to bo cssential to the continuance of our present civiluation. New forests of these trees must lo grown, or our grand-chaldren nusist depart from ou. modes of hifo. West of longitude
$100^{\circ}$ from Grecnwich, the material for a common waggon does not grow on the continent, and we are fast exhansting it east of thint meridian. Ohio and Indiana, Kentucky and Minouri, have girdled and burned hard wood treen that would to day be worth hundreds of millions of dollars. If failing springs and protracted droughs and extromes of tempera. ture angest replanting, their people may safely rely on a future marknt mose cerain than that $r$ any other froduct of the soil. .

The remedies ware cmblodied in the follow. ing reaolutionu:

1. Resolved, That we reeommend farmers throughout the United States to plant with trees their hilly or othor waste lands, and at leant ten per oent. of their farms with trees, in much a manner as to provide sheltor belts of clumps and rapid growing and useful tim. ber.
2. Resolved, That we solisit the Legislatare of the several 8tates to pass laws providing bounties for planting useful trees, encouraging the planting of high way, and for the provision of State nurserics of young timber treen, and also the appointment of an Arbor Day for the annual planting of trees, as has already been done in the State of Nic. braska.
3. Resolved, That we ask our Congress of tho United Statee to sequire, so far as prac. ticable, that hereafter zailrond companics and mettlers receiving the benefit of the homestead and other actn donating lands, shall plant with timber trees one.tenth of the lands so donated.

## Care of Machines and Implements.

Agricultural machines and implements costa great deal of money, and they ought to be well taken care of, so as to preserve them in working order as long as possible. Threshing machines, reapers and mowers, seed drills, etc., generally suffer more damage from exposure to the weather when idle, than from the wear and tear occasioned by the work which they perform. There should be an implement house on every farm, large enough to contain all the machines and implements. There should also be a tool house for small tools. Every machine, implement, and tool, when not at work, should be in its proper place in the house or shed, palnted and repaired, and safo from damage of every kind. When managed in this way, machines and implements will last it least twice as long as they would if left lying around loowe, the iron work gathering rust from rain and dew, and the wood work rotting from the effect of wet and damp, or shrinking and cracking in the sun. A well atocked tool house is a goodindication of the intelligence and orderly habits of its oxner.

It is said that more than $\$ 5.000,000$ is lost every year by the farmers of the United

States by damage dono to machines, imple. ments, and tuols, from enposuro to the weather at times when they ought to be carefully housed. The farmer who com. plains of the high price of machices shonld make them last as long as possible by pro. tecting them from the rays of the sum in summer, and from rain, frost, and enow at o her seasons. It has been proved that even a grindstono be:omes damaged by exposure to the weather; it is not to bo wondered at, then, that machines and tmplements mado of wood aud iron should bo easily damaged by rain, etc. A thrifty farmer understands that a dollar saved is just as good as a dollar earned orgained in any way. - Hestem liural World.

## A Nev Enemy to the Com Plant.

We notice that in many places, this season, that the corn plant is attacked by a minute insect, very similar to what gardeners who have graperies call the "thrip." It is so small that it can only be seen distinctly by a pocket lons, when it repears as a small whitish-brown thread, about a liee in length. it is however, very active. When disturbed, it jumps like tbe cabbage -llea. It feeds on the green matter of the leaves, usually eating in straight lines up and down be. tween the ribs, leaving an appearasec of delicato thread-lines where they have fed. That they are a strious injury is evident from the fast that the corn so attacked is not so thrif. ty and vigorous as that free from the visita. tions of the insect. Indeed, as the effect is to prevent the use of half the leaf-surface to the plant, it mast be an injary. It is the same as ploching off half the leaves, the conseruence of which we all know very well. Whether it has come to stay, or is only a casual visitor, remaius to be seen.-Germantors Thigraph.

## Effects of Forests on Climate.

The following olservations, (from the London Garken) while they may not establizh the effects of forests on climate, are certainly valuablo in that direction. They were made by M. Mathen, Professur in the School of Forestry. at Nancy, and were reported by him to the Agricultural Congress, at Nancy, in 1369. They include the first eightinonths of cach of the years named, and weru male with reference to each of the following points:
1st. Doos the wooded condition of a country exercise an influence upon the amount of rain itreceives?
The answe to this question was attempt. ed by taking two stations at equal hight above the sea, but soparated between fifteen and twenty miles, the ono situated in a wooded and the other in a cultiv -ted country, and observing the rainfall. The result, reduced to inches, was that at the agricul.
tural station the rainfall for the threo sea. sous was 8200 inches, and at the forest sta. tlon 93.13 inches; difference in favor of the forest station, 11.11 inches.
2d. Dees the covert of the forcst, by in. terecpting the rain falling from the atmos. phere, diminish to a considurable extent the amount of rain that reached the ground?
This was answered by plasing raingauges beneath tho trees, and in the open gromed close at hand, and comparing results, which were as follows:
In open ground,
Under the trees,
9209 inches.

Excess in open ground,
$\frac{57.74}{435}$ "

- This shows that while some of the rainiall in the forest dnes not reach the ground, still by comparing what did reach it withthe result at the agricultural station, we have 5774 inches for the rainfall under the trees, and S2.02 inches for the fall at the agricultural station, an excess of 572 inches in the forest.
3.1. What is the effect of a wooded country on the conservation of the moistare received by the soil?
The answer was sought from a comparisous of the eraporation from two cqual vessels, one placed in the forest, the other in the open ground. Evaporation went on five times as sapidly, taking the whole year into consider ation, in the open ground as in the forest, rangigg irom three to six tinucs between April and July; 85 per cent. of the rain fall. ing from the open ficld evaporaied, whilst only 22 per cent. of that falliog in the forest was lost.
4th. What is the influence of forests upou teuperature?
The experiments in this direction had been conducted bat a short time, but go to show that the mean annual temperature in the woods is lower than in the open country, and that the difference is least in winter and greatest in summer. In 1868 the mean tem. perature of the forest was lower than that of the open fields by $4^{\circ} 35$ in the morning, and $9^{\circ} 33$ at night, in July; which difference fell in Decemder to $0^{\prime} 4 S$ in the morning, and $0^{\circ} 94$ at night. Agaid, the average variation in temperature was much greater in the opea cuuntry than under cover of the forest between day and night. It ranged from $0^{\circ}$. 05 to $S^{\circ} 57$ in the open air, but only from $0^{\circ} 04$ to $1^{\circ} 22$ in the forest.


## Hay Caps.

During the season, caps for hay and grain have been extensively used at the Michigan Agricultural College. Dr. Hiles, says that they have much more than paid for themselvos and all the trouble of putting on. They are made of heave cotton cloth, with a string to each comer, to faston to a stake or a amall weight. On many farns they can

Chanco Visit to the Agricuitional Imple-
ment Warehouse, Toronto.
A for days sinco I was accidently obligod to cull at the abovo establishmont of Mr . licuates, and was much gratifed in inspect. mh the varivus kinds of farmer's holp to savo labour. I do not mean to deseribe or recom. mund any. Were 1 critieslly to attempt to do so, it rould imply that my knowlodgo of f.rm impleenents was most extensive. I certainly have been engaged in agricultural pursaits all my life, and could uso to advantage with my own hands, any one of the tools I saw, but it is quite another thing to sit in judgement on the merits of all. One rellec. tion of a serious nature did cross my mind and it was this:-Are all these implements useful and labour sawing in their class-I answered "most cortainly"-and I think any one would eche my opinion. Lich new and improved farm implenent and labour saving mashiue that i $\mathrm{u} . \mathrm{F}$, struck me as being one wore step towards placio, agriculture, where it certainly ought to be, amongst the first and most certain mems, for those engaged in it, of making a peacoful and abuniant living.
Tho great draw-back to my mind, lay in the want of capital to stock a farm as it should be done, with one of eash kind, or class, of all the implements cahibited, and the diffculty seemed to be to know which to except as necessary. All farmers grow the same crop or nearly so, thoasands, upon thousands, have tho same sized farm, and if the possession of one "improved plough," "horse rako," "mower," or what not pays one farmor to buy and use, it certainly must pay all to $d_{0}$ so, and following the same train of reasoning every one ought to have one of each sort, or he certainly does not do as well as he might do, and in fast ought do. "But he has ant the moncy to pay for this mass of tools," very true, but that argument does not for one moment prove he hid not better havo them, if he be able to buv them.
Hence it follows that if this mass of labour saving tools pay twenty farmers to havi onc or two each of the different kinds it must pay "oue farmer" to have all tweoty of them or one of each kind, provided he has the mones to spare, aud wo aro absolutely forcel back into tho prosition, that capital is most necessary to farm with success in Canada. Amongst all the number of excellentinventions none struck my fancy more than tho singlo horse Iron Plough. I am a great advocate for light tools, and this little plough was hung so deftly on its two iron obliquely placed wheels, wbich peculiarity entirely dispensed with a land side, and the friction, as well at the side as at the bottom of the furrow. "Compare this with the old fashioned English plough," as well might we compare the vast extent of the work dons by one of our beautiful stcel forks, with an old-fashioned Dnglish or Irish one; as well compare the handling of this little compact iron plough with one of the old fashioned
hoavy caatiron mould board horso killers, that wo formerly considered it advisable to use, and hero wo can feel tho difforence, and - wa the fork onverle s, but in plonga. as Tro 0 an un-

- and wo c.n only
ing our horses do the wusn, ...
sec the worl done without feeling the power oxercised to du it. Vury fow larmers test a plongh by a dynumetor bifore or after busing it


## Tice Plantins.

Wi le..na frum the din,....tmons that ine. urasha has desiguated the tenth of April as a Rural holiday to bo known as Aneon Day. It is to 'o observed as an Agriculteral Festival, and devoted to the planting of fruit and forest trecs. The Agricultural Society of that State has offered a promium of oue hen. Truel cullios to the Farmers' Society of the County that plauts the largest number of trecs on that day, and fremty-ficichlolus to the man who himself phants the most.
Why can we not do something like this for Ontario? If our farmers could be encouraged to plant trecs around their dwellinge, along the road-side, and upon the wind-ward zide of their farms, what a beantisul appearance our Canada would soon present. How much more attractive to the stranger fiom the old. world, secking a home in the new, for him. self and his shildreo.
Farmars of Oharro, anate, tahe hold of this matter, stir up sour Agricultural Socio. ties to do eumothing more than give prizes for fat cattle and plethoxic calbage heads. A man's life does not consist merely in the enormons site of the animald he raises, or of the roots he cultivates. Bas he no pleasure in being the owner of a pleasant home? Does he tahe no pude in being a dweller in the prettiest county in the Province, and in tbe handsomest township in that county? Let us set about this matter at once, nor let any Nebraska get ahead of us in this matter.

## Application of Mranures.

Tho effort to work manures in decply with the inea of fertilizing the subsoil which was exte ssi\%cij held but a few sears ago, is now pretir g nerally given up by most practical farme. r. That iden was, if we mistake not, advanced and maintianed by Prof. Leibig and others. Now the mast intelligent scientific, as well as practical men belicve it most for the farmer's interest to keep manares near the sarface.
At a recent mecting of the Farmers' Club, at London, Prof Voeleker sain, in reply to some statements made by Alderman Mechi, "Dun't naseure sulsuit of atay hiad, light or heavy, manure the topsoll, and keap the manuring elements as near as you possibly can to the surface so that the young plant may derive mmernate advantage from the foud prepared for it." This we take it, is the trut do trine very forcibly expressed, and we believe it accords with the experience of the most carcful observers both in this country and in Eugland.

This position doon not fmply that landm should not be dooply ploughed and mollowod only that manures ahould not bo bariod doep. ly. We like doop ploughing. Wo like, in turning over tho sod, to lay up to the sun and air a nuflicient denth
to havo tino arta.
rifur or arth and roiki. $\therefore$ outitivation cary and light Without bronking ap tho turt and sod. But Wo do not like so tarn under the maune too deep, and wo think a great doal of manuro has been comparatively lont and wasted. If the sod is turned over deoply thero is somo satisfaction in manaring and fertilizing the loose and mollow earth that is turned up. This is a practical point of very considerablo importanco, and it worth careful investiga-tion."-Mcissachuselts Ploughman.

Covering Manure.
It is remarkable that more attention is not given to the subject of covoring manare from the weather, and especially from too much rain. 'lhose who have given the matter particular attontion bave found that the manure so protected is worth double that which is left out in the opon air. Two loads for ono is a profit fow farmers can afford to loose. Thero is no question which so vitally con. cerns the farmer as this one of manure. Such that he does has roferance to it. Straw is not to be sold becauso it makes manare. stock is fed tbrough the winter for the express purpose of manuro naking. Articles which will searcely pay to sond to market are novertheless taken to the city in order that manure may be brought back as a retorn load; and yct the whole of the manure mado remains all the season exposed to the son, wind, and ram. untilit is diminished in value to so great an cxtent as it is.
The trouble is probably that few really belicve that exposed manures undergoes this loss. But the matter has been too thorough. ly tested to admit of a doubt. We know frst class farmers who did not themselves believe it, until by astual experiment they found out its truth.
In arranging farm buildings it will pay well to look as much to the preservation of the manure as of the hay or grain, and those who have their buildings already finished withont these manurial arrangements will find that twenty five or fifty dollars spent on boards for a coyered shed will rank among the best mivestments ever made.-Germantown Telegraph.

Late Rose Potato in Virania.-C. S. B., Loxington, Va., writes' the Country Gcultuman; that accidentally meeting with a barrel of potatoes of this variety from New York, on the 30th of March last, heobtained threo of the tubers and planted them with the following resalt:
"I cut them, leaving one oye to a pieco (total weight two pounds) and planted them by the sido of some Early Rose potatoes that had been planted about tro weeks, leaving a distance between them three feet wide, and putting the pieces in the row 12 inches apart. I dug them a fow days ago, and had nearly two bushels by measure that weighed ono hundred pounds. The people in this country think that a pretty good yicld-I don't know what it would ba in Now York."

## Stock 解ppartment.

Cattle Disease in England.
Tho inspectors returns abiot the past week for the county of Buchinghiniin sucw that foot-and.mouth diseaso now exists on 509 farms, the numbor of animals affected being 10,74S comprising 3722 cattle, 60.17 shecp, aud 379 pigs. 124 animals, princlpally pigs have died of the diseaso during the week The greatest amount of diseaso crist in the following diatricts:-. \ylesbury district, 30 farms infected 621 animals; Linglade, 23 farms, 617 animals; Fenuy Stratford, 35 farms, :772 anima's; Nowport Pagnell, fio farms, 144 animals; Stony Stratford 31 farms, 1066 animals; Windslow 43 farms, 546 ani mals; Stecple Claydon, 70 farms, 1637 ani mals; Brill 62 farms, 955 animals; Maidsmoreton, 30 farms, 625 autuals, Great Marlow, 13 farms, 217 animils.

The discaseis sprealing all over tho county of Cambridge. Animals which hat recovered are being attacked a second time, and the malady is assumbing a very serions form. Sheep are the chicf amimals affected, and therc is scareely a farm free from the complaint.
Wedneblay's returas ofthe forst amd moath disense in the county of Dorset give the following figurs:-Hidemert division, iti catte. GJ8 sheop, 35 suine, on 14 farms, incleding 7 fresh oullmeaks; Ceree abbas division, 36 s ctule, 250 s.hecp, 127 swiar, on 11 farmu; Dorehester division, 370 eattle, 1832 sheep, 123 swine; Shaftesbury divinion, 262 eatle, 75 sheep, 25 swine, on 109 farms, Sturnin. ster division, 1067 eattle, 193 sheep, 87 swinc, on 107 farms; Warcbam division, 195 cattle, 851 sheep, 54 swine, on 36 farms; Wimborne division, 1 lil eatllo, 3519 sheep, 49 swine; total number of diseasel animals, 19,798. About 70 animals lied from the malady during the week
The last official returns shew another considerable incresss in the number of cases in Gloucestershire. The week before last the total number of cases was 12, 2:2); last week it increased to 16,884; the number of farms infected the week befors last was 377 ; last week there were 42 . Tho number ot fresh attacks last week was 6S55, and 2057 animals were reported as recovered. Eighty cattle died the week before last; last week, 112-16 being cattle, 6 shecep, and so piss.

In Huatingdonshire there is a further in. crease. The last oficial returns shew that the number of stack affected is $4 \overline{5} t \overline{5}$, which is upwardsof 400 overlast week. Of these 3101 are sheep. The pigs attackel are comporstively small in number.

During the last week in Sorthampton 32 cases of foot-and-mouth disease in beasts and sheep have proved fatal out of $69: 0$ afected; and in pigs 8 were fatal out of 280 affected. Three cases of seab in sheep have
been roported, and 3 fatal cases of pleuropucumonia in beasts.
The last official return as to the foot-and. mouth disease in Norfolk oxhibits a tolos os 11,411 casces. This scturn in ion ionght down to August: 174L cates in tho week ending August 10th, 12,* 7S3 cases in tho week ending August 3u, 13,976 cases in the weok ending July 27 th. and 15,302 in tho week ending July 20th. The number of eases occurring in the Ayls. ham district ia the week ending August 17th, was 1157; In the Dowaham district, 2,001; In the Swaflimen distriot, 1635; In the Dock. ing distriet, 919 ; and in the Walsingham district, $912 . \quad$ 'The number of cases of pleuropneumonia officially recorded in Norfols in the samo week was dS. No eases of shecp scab were recorded.
The returns for last week for Lameashire show an alarming increase in the numior ni animals affected by the disease. In the I'reston district, comprises the humdreds of Anvinderness, Leytimd and blapkburn. there were 120 frewh outbreaks, and there aro now 311 farms affected $-3 \bar{J}$ S cattle, 798 sheep, and 21 swine; being an increase of 12 out. breaks 9.5 farms affected, isj cattle, 204 stoeng"and 11 swiac. Thedisenso ismostly prevalent in the to monhips of Kirkham and Carstang. Ia the Salfond district there werces fresh outbreaks during the week.
The disease atss contimus to spread at an alarming ate in Nuttinghnmshire aul Lincohshiar, thinuiag the morkets, and rendering necessary the enforcement of orders by the loual anthorities prohihition the removal, except by an onder from the inspector, of any animal suffering from tho diseare or which has been expsed io contagion. The complaint appears to be garlicularly rifc in the aeighborhoods of Newark, Lincoln, Stamord, Spilsby, and Wisbeach. Tho Sotts justices have met at Newark and is. sued a noticy to the public raquiring owners of cattle to desist from exposing affected cattle for sale, to disinicet yasds, stables, and sheds, and to keej affected animals isolated fron the remainder of their herds, under a penalty of $s=0$. It is hoped these restrictive measures will stay the progress of the comphaint.
The disease is also spicading in Somersetshire. It a meeting of the sub-Committee under the Contagious Discase (inimals) Act, held at Long Ashten on Eriday last, the inspector reported that siuce the last meeting 101 fresh cases had oceurred in the district, and that the number of animals affected was as follows: - -0 bulls, 32 c cows, 110 oxen, 3 is heifers, 92 calves, 2452 sheep, and 131 pisg-total, 3511.
In Worcestershire the d'sase continues to malse increas 1 progress, asd according to the returus of the Chief Constable of the county (Culonel Carmichacl), it appears that the number of auimals affected in the week ending Saturday last shews an increase of 99 on the werk. That total numbers were-

Week ending Algust 10th, 1106; Augnst 17th, 1225. Nroic a singlo district of the county is frice, and, in all, the numbers, as a valo, are in excess of what they had previously been. A large number of sheep are aflected with tho ssab. The numbor of forms on which foot and mouth diseaso prevails is $1 \times 3$, as against 10 in the provious weok.
As regards Scothan, it is reported from Newfon Seewart that foot-and-month disease has appeared among the mileh cows of the district.
The disease has also breken oat recently at Inverkip, and is spreading tho stock of three farms being at the present time aftiect. cd.

Foot and month diseas. continues to spreal in Dumfricsshire, the new nutbreaks from the $1: 3$ h, to the 20 th instant being returued by the inspector as 77 cases. In some parishes the discase is very virulent, and there are many deaths among cis:tle. Threo outbreaks of pleuro pneumonis have becu reported, two of these at Castlo Milk Mill, st. Mungo parish, and Goosehill, Sauquhar parish The thind ease is in Closohurn, among graz. ing stouk form rly at Geosehill.
At a mecting of the Fifeshire Loval duthority on luesday, several additional farms were declared infected with glenropheumonia.
From Kinuoss shire we hear that a fresi outhreak of pleur- pnoumonia has vecurred at Wester Bahado; and it is also reported that the kame infection has apyearel in Terilige larn. - The Furn $r$.

## Live and Dead Woight of Animals.

The amount of meat obtaned irom a domestic animal soli by its hee weight is very variable, and experiments have recently been made in liveryool to ascertain the proper allowances to be made. From the statisties to be derived from the public slaughter-honses, or abattoirs, of Parin sa. Brussels, it appeans that the race and the condition of the animal, besides many other circumstances affect the result, and thrt eer. tain animals yield as much as 70 per cent. of meat, while others only give 50 per cent. The mean weight of meat producel, however, is calculated at as per cent. of the livo weight in beef cattle. In the case of sheep, the proportion is from 40 to 30 per cent. From experiments made, it appears that the different products obtained from oxen and sheep are as follows: An ox of the live weight of 1,322 pounds yichds, meat, 771.4 pounds; skin, 110.2; grease, SS; blood, 55.1; feet aud hoofs, 22; heal, 11; tonguc, 0.60; lungs and heart, 10.33 ; liver and spleen, 20.05 ; intestines, 60.15; loss and evaporation, 154.32 -making the total of 1,322 pounds. The products from a sheep weighing 110.2 pounds are as follows: Meat, 50.1 pounds; skin, 7.714 ; grease, 5.51 ; blood, 4.40S; feet and hoofs, 3.204 ; head, 4.405; tonguc, lunge, heart, liver and spleen, 4.405 ; intestines, 6612 ; loss and evaporation, $19.530-m a k i n g$ the total of 110.2 pounds.

## The Foon and Ronith Disease.

At the :otty sessions of Tu:bmithe, keat,
 ing, Frollorick Tinmer, farmst, of Sizuls. heath, Hadlow, appeared in maswe: to as.as. nows wheth chatged him with havats hat in
 hroe cuss and heifurs, :wo steers, andia :ogs cicraibio mamber of pags affected wath def foo ami mumh disease The cefe. dars wy proxy, a hmated that he ithew the animals referred to wete sulfering livu the disease, but said he did not know it uas neteszary to inform the police of it. Superintendent Dance sad he heard :t a varnal way that there were animule atitected an r.me foum, and be

 costs.

 arepted. in th, Farrmgion aivision ay "auds of 100 cattle, lesides sheep asel piss bavo been atiacked wihio the rast few hats. the nomber affected leing - cattie, 23:\%, nati
 ber of feceh ontbrea's ownree? in the Nits. buaj division last wetk, atal cathe, stacy, ana 1 ags are atectel ta yearly 30 yhaces it Land datuce. As tioney-on-Tham ys Pe:
 b a dh of magistrates, Mr. inh hewe:, : sh ap cenaler, of Goring heath, was suma 2,14 log : se inspector of cattle for that dirision a "isiombhire, on the charge of having whe her
 aud iambs affere? with the foot and masti discase, of which he did net give notice to : police constable, contrary to the provisionL. the Contageous Diseases (Animals) Act, wion an Order in Council. The Inspector 2.aing given evidence, Mr. Mellet, veterima ry sargeon, of :ienley-on-Thamev, was calle a
 : foum about 120 of tin me suffering with ivit and mouth distace, and in some of tite lambs the distase uss developedin an extraordin :- , Cerate. $\because \because$ : the defence, it was conte: ! wa that the disease uith which the sheep u-iv atfected was not the foot and month dise we. luta disease that had been prevalent among sincep for the lagt 10 years. The justiou: convicted the defendant in the mitigra: penaly wi 10i, with conts, 2? 5s. Mr Ru Wert Lovegrove, farre er, de., of Cavershan mear lieading, was also charged by the in spector with hasis:g abull, fout cous, at cali and a pigg, sifected with the fost and a oath diesase, and neglecting to report the sam: :1 the inspector. Mr. Lovegrove pleaded guilis. but eaid his serrants had neglected to give information to the inspector, as he told then to do. The magistrates fined him $\overline{\mathrm{is}}$., wth costs, 11. 1ss.

The disense aisu contit ues :o sprear . $t$ an alarming sate is. Xutchaghansite and han. colnstire, thinuing the markete, and render ing necessary the enforcement of orderd by
 excelt hy an onder from the inspector, of any uninal sutferng from the diseaqe or which lias heen exiosel to contagim. The com. plain arpears to be particularly riae in the acr.phenurlicole of Newath, Linedin, stam. fon. Spilsig, sall Wisbeach. The Notts jutices havemet at Newark and isfucd a mivinc so the fablice reguiring owners of cat ifo to dexist from exphsing affeated cattle for sale. to dsoinfent, yards. stables, and sheds, and to keey 'itrected animals'isolated from
 of $20 .{ }^{3}$ it is hoped these restrictive mea. sureo will bay the urigreses of the com! phin.
 shire A.t a neeting of the auh-Committe.

 var cine we rani bhar virme tholast met. my 104 frecic ase late noured in the dis.
 was is fohow on bulls, sit cowr, 116 ox.
 131 l.ige-totanl, 8,511 . At the meeting of une fates for the hivesion of westom, nean
 Qu+can rinuit al is tresh rat'reahs of the

 Wed'ow, ate Bathampton. The namber



the inst whatel wetams show another con
 abuacolorehive. Tre week before last the totai nuaked of cases was 12,232; last week st mureased to $16, S 81$; the number of farms :afceted the weck befere last was 376; last "cok there were 425 . The number of fiesh at:acks lass wectio was 6,545 , and 2,087 ant:mals acre repo:tei as recovered. Eighty atwie diad bhe week bufore aast; last week, .i2-iv bemy eatile, foshep, and 50 pizs. is $\because: 2$ Sodlury district, 5 catte, 1 shecp, a: atyss inso dica. Mow the distase sucand aceno a mystury to all. The Ciren.
 .. F Sat. $x$ en atacelui during the past Luen, w:ats:-"The disesse still continues
 va te folats longer than it formenly did. Th ansace is on ot catms. and in anl tie 21

 orum the colur itstricte nern!y al! wite that -he clonase is spuartige and they camot ucunt for it. The mander of cases in each district is as fo lows:- Eerkeley, 396; Bris. tol, 4:0; Campuen, il9; Cheltenham, 606; Circncestor, 5,511: Dursley, 207; Forest, 173. Gloucester. Sis; Simbary, 1, 6.74; Stow
 ander Elge, na3. Tine Tenkesbury and Winchoombedistrots bave bhen free from. liscase fur suveri! monthe.
to the norton of turn times.
Sir.-Foot and mouth disease has apread so mpilly and caused such hoavy losses thisu season as to canse alarm among the ownem of stork.
You have of late'deroted so much space to tis discussion of the disease that I reature to ailress to you a few obsorvations on the sabject. One of iny objects is to fix attention on the circumstance that while it is ad. mitted on all ha ${ }^{24} d_{3}$ that thin malady insicte. an exormou's inss on the agricultural inter.ests of the "ccimtry; no wellodirected. . effort is made to intrestigate "the laws by winch st. is propagatedí"

One of the tetaing adricitimal authorities thas just projoninded the nown that if fort! ami umuth discase were "stamped out" it ${ }^{1}$ would soon break ont árain. My orn inde? peadent obscrvations induce me to say that this view of the case is hot tenable. IAs it is chtertained in many persons, and as a perastent agitation, calenlated to deceire alike the owners of stuer aud the mulhic, is nased apon it, I wish brienly to state the giound on which my opiaice: is ioundeal. In the nirst an tee it is murneme to benr in miad thet this is not an mdyeums disease, that it was mposted from the continent of Gurope into the south of lweland, whenes it passed into. Englamd; and that it has ze ver siuce been "stamperl out." I :un awate there are men Who hold the opizion that the disease is capable of beins derelopul in ticse islands spontueously. Th:s orizion dees not accorr? with careful oberration. 1 know diṣ̂ricts in lrciand in $n$ !ich it has sever apmeared. rad tiaese happen to be the very places wherwatele receive lie wo to tratment and where at wond be most halace to le pranabee? if capable oi spmataneons generation. Sow the iisease beatg of ine ciga origin ase not capable of epontaneous genc:ation, itis ma, ifest that if we could place suelh restrictions on our cattle trade for a limited perion as would statap ont the disease it woah met and couhd not appear again unkes mupote! aftcs!. It is well kiown that the cattie phague restrictions decelsed this , dise:se. Hal the country been comkelled to continue those restrictions muelz imger fout and moush disense wonld have dusapeared allogether. heingmese thase are strictions to-monow, and yoa will effectua!!y " ${ }^{\text {trimp out" this disease. }}$
Nany persons, white agrecing with t.e tims tar, wound sald tinat as the rein, iontano of the disease is inevitable, and as it p:oponate itelf in a way whoch batious rithe stientitio skill and praceical expertence, is coild be got rid of aiter calin reimportation valy by the reimpusit:on of tinery restric'sas.

I must admit. in common with all persono who have had exterasve experrence of this disease, that it lias of ev: appeared in cattle muler my divection in a way which com pletely pazzled me. But recent obsertations ind experiments, undertaken eqpecially iñ the hope of throwing light on the nature of
the disease, have cnabled me to understand what used to appear mysterious. I shall cite an illustration. The notion is very generally entertained that the disease is carried from farm to farm through the air. I shall briefly state a fow faets which show that if carried at all in the air, the range of its power of transmission is very small.

I have at Glansucrin, for educational purposes, thres farme-one of $5 \frac{1}{1}$ acres, one of 25 acret, and one of 140 acres; each of which is worked indopendently of the others. I have taker all poseible precaution to proteet the animals on these aoveral farms from infortions diseasce. For example, where a piece of pasture adjoins the public road 1 have orected barricades to provent the cattle from coming in contact with diseasod animals which may pass along this road. Notwithstanding these precautions, and that no new purchase had been made for months, foot and mouth disease appeared last month in one of the animals on the 140 acre farm. It seemed to some of my neighbours and pupils to be a case of apontancous generation. But it was easy to thace the outbreak to an infected lot of cattle on the opposite side of the road. Those animals had access to a brook which supplies water to the cattle on our 140 acre farm. As soon as the disease broke out I took steps for perenting intercourse between this farm and the two smaller farms. I further directed that as soon as an animal should show any signs of disorder it should be withdrawn from the herd and placed in an bospital. On this farm there are 53 head of cattle of all ages. Of these 22 got the disease, and it haslalready disap. peared. On the $\mathbf{2 5}$-acre farm there are ten milch corrs and two calres. These animals grazed in a field which is within 28 yards o the ficld of the 1.40 acre farm in which the discase broke ouf, and within 70 yards of the shed used as an hospital, yet none of these got the discasc.
Last year also I had this discase at Gl: p nerin. It appeared first on the 140 -acre farm and in a cow bought at the fisir o Drogheda, where she came intr costact with diseased aminals. Iast year it spreal to the 25 .acre farm, and on diligent enquiry I was able to trace the transmission of the infection to the use of a bucket taken by a thought. less boy from the diseased to the nealthy cattle.
These facts show the valuc of isolation a well as the importance of preventing th. movement of cattle during the prevalence of foot and mouth discase. The asme holds geod with regard to that insiduous plagne pleuro-pncumonia. Many stockowners are ignorant of the nature of infoetion, an:l do not anderskand the advantage of imposing restrictions on the movement of eattle. The best way oi overcoming thoix projimdices, and of arriving at a knowherge of the pinviplom by which legistation on theoe iniectiens dimeaves onght to be govemedt; in by institating $a$ rigikl inquiry itco the mede by whieh try
are pr pagated, if the initiative ween taken by anj central eompotent hoily, sieh we the Royal Agricultaral Society. I fully hotione the landed gentry and farmers mouid oen. tribute funds to prosecuto the inquiry I also fed assured that the stock ownons of Iroland, who are a woalthy dabey and suffor. from infections disemes an annual hose equal to the whole of the toonl taxation of their country, would not be slow in eoniing forword to support such an effort to serve them.

I remain, Sir, your obedient Sorvant,
THOMAS BALDWLK.

## Albert Model Farm, Glasnevin Dublin, Aug., 18.

## The Booth Short-Horns and the Herefords.

We cons the following excellent reviaxs on the Skort-Horn and Hereford prizetakers in England this year from Bell's Weekly Messenger: We take special pleasure in giving this long article a place in our columns, in that, from them we particularly learn that the old Booth blood as shewn especially in Killerly or Warlaby strains still hulds its own in the Royal and other large English shows.

## shont-hones at chrmpr.

It is important from year to year tu follow the awards of the Royal Agricultural Socicty's judges with a vier to the blood which produces the winners, and curious as well as instructive to watch the rise and maintained excellence, or on the other hand the decline, of families and tribes of short-horns. Some new names will crop oit for a season or two, families unheard of before coming into the foremost ranksand lien disappearing, the pro geny, whether from unsuitable alliances, atavism ("bre-ling back") or other calses, never again $t$.king a position oi note. Sometimes a new inmily (or we may rather say a brasch : : in old sort graited and growing upon a. csh stock, or ohl materiais mixed in amp . runamikar, wili come furvand credita' . and maintan a ex elitable standing; ar: aill throwgh all the weissitudes of fami1i there anc gome uhd tries that can al. $\because$. Ss show anam als second to none when ir,eed to the test. They may retire for a sine (so far as regards showyard honors) in :onsequence of the temporary lack of mem. bers, of age and in condition for the show; or their owners from various reasons may decline to exhibit them or train them for exhibition; but so surely as they remain in good hands will they be heard of again, and again though either their legitimaterepresentatives or the offspring of their males in herds of other blood. On the latest occasion, the recent national meeting at Cardiff, the coiors of Warlaby were. borne to the front by Mr Outhwaite's Royal Windsor, the premier bull of the year, Mr. Linton's Lord Irwin, the second winner, Mr. Bowstead's Flag of Britain, third prize-taker, and Mr. Cooke's

St. Ringan, the reserve number bull in the same class. Mr. Brierly's third amoug the two year old bulls, Prince Charlic, is a son of the pure Booth bull Priuce of the Realm, from a dam by Mr. Chaloner's Fugleman, a son of Warlaby Hopewell. Mr. Linton's Leeman and-Mr. A. H. Brown's Duke of Aosta, first and second prize yearlings, have each a preponderance of Booth blood; and Lady Pigot's first prize bull calf, Rapid, is of Booth decent on both sides of his pedigrec. The firat prize cow, Mr. Browne's Y'rimroeo, is by a sire of chielly Booth blood; and the econd prize two.year old heifer, Mr. K. F. Smith's Lamwath Violet, is full of Booth. To these might lie added several prize and commended animals owning leaser pronortions of the Killerby or Warlahy element, but those already mentioned (a fair number of winners for one strain of blood to contribute to a Royal show) sufficiently prove that Booth short-horns are stid formulable competitors $n$ the ring. If it. wite not so, if the Warlaby tise had disappeafed or gutered
 probably arreparable, woulh have befinten the short-Lorn race-a loss which would be the mo., keenly appreciated as symmetrical samples of the short-hor: breed ivecome more searce. We hope to sec the truly moulded form, the well-set ha.iss, brom level backs, straight underhas, arched ribs amd prime thesh of the gesoun wh sort stitil reproduced in syecineno o: suceessive gencritions, proceeding bo :: frem Warlaby itself and from the depandencies of Warlaby, the herds ownis: zate intluence of Warlaby sires.

*     * io return to the first class of bulls:Rry. . Windsor ( 29840 ), white, was bred by :a. Willis of Carperby, and was by Windsor Fitz. Windsorả (of the Killerby Mantalni and Warlaby Broughton or Blisa famlies combined), from a dam by Mr. Rechard Rooth's Fitz-Clarence. the son of that mast exquisitely lovely cow Nectamae Blozsom. Lord Irwia, also white, bred by has exhibitor, was by Lady Pigot's pure Buoth bull British Hope, his dam having the blow of Cruinchank's Magnus Troil ( 1 izs0) comicnsed by in and-in breeding, Magnus Troil had the Walaby a:d Wiseton blood through his sire Tise Baron Flag of Britain was bred by Mr. 'íorr, whose success in reproducing the Warlaby type in his herd may be described almost as more than conimensurate with his extensive use of Warlaby bulls, since it was partly owing to the consumate judgment displayed in their appropriate selection. a less skilful man might have done much less with equally good materials. Flag of Britain, like many other Aylcsby short-homs, is several generations decp in Booth blood upon the well-hnown iamily of Flower Girl by I.ondesboro'. Tho three immediate sires in his pedigree are Breastplate, British Prince, and Vanguard, containing some of Warlaby's choicest and most valuable families. Mr. Lamb's Ignoranus (28857), first among the tro-ycar-old
bulls, is on the dauns sile a gramestan of Elgar, that mavive and noblo bull of Ryyal fume. F.ggar. in his style, had very fuw superions, not may eiplach. The sire of Igmanama, Enyl of Leglinetm, had a face dash wh lates blow in Tuth (rand blake and Ion 1 uxford, apon a famty compo et of Booth, Lax, and other mid strang. Nin. Weorge Garn's tarl of Warwiskhire 3ril, (23524), next to Ighoramus ia hoher of precedence, has a decited prelommanee of Bates whon, with a touch of Routh and a Kighty foudution. Mis. C. W. Brierly e Pria e Charlic (29007), bred by Mr. Meadows of Wexford, we hase already mentioned as ialceriting Booth Lluod thruigh Prince of the Realin and Fugleman. Mis Herd Book number, which we have supplied, is omitted in the Cardiff catalogne. Mr. Jesegh Strat. ton's Master 'lanville (29320) has the ofd steains of Mr. पtatton's shorthorns, with a 1:tte:c Luot: in Janes 1st. Mr. Stratton's entry, hko Mr. Brierly's, onits the Herd Book refureace, which here agam we have ascertaised and added. a buils sumber should a'wass be carcfully ineerted in the certiticate of c.etry, aud as earvintly copied by the cepulers of the catalognc. The jearlity, in ciurse, to which we now conte, Lave sut get loren registurel in the Herd Dook. Leeman, :irst on the list of wimend, is another vi Mr. Lintin's, of Sherift Hutton, whose herd, favoraidy naticed in the Messen. ger abort six years ago, bas continued to impro:e and wo semp out ireeh prize takers. leeman is by Mr. J. B. Bucti's Serjeant Major ( $\mathbf{2}-1357$ ), irom Mushroom by Ferl of Winalsor (17788), a Booth descended bull bred by Mr. Carr, and comes beyond fron Magmes Troil and Bates (12451). Duke of Aosta, bred by Mr. 'i. if. Hutchinson \{of leicester shecp as well as shorthorn fame) and shom by Mr. Bruwne, is by Mr. J. B. Booth's K. C. B. (26492), his dam Qneen of Spain by the Warlaby Valaseo, grandam by Yourg Hopewell, and son of Mir. Richard Booth's Hopewell; and Culonel Tounneley's Baron Colling End, who follows as third winner, is a s a of Reron Oxford (23375) out of a wh Duke af Airdrie cow, with Great Atwul and Moser Batterly upon the Tenilia fa. ity of Thewenty beyond. Hon ever mach of in. merte may be due to the Buatertly and other constituents of his pedigrec, Batesbloodmust be crectited with a considerable shares siace Baron Oxforl, a notoricusls fequent sire of wimers, is almost purely of timat striain, which is represented also in the Airlric Dukes, and in the grandsire of Great Mogul, the first Grand Duke. Among the bull calves Lady Pigot's Rapid descends from the Farewell (Crown Prince's) family of Warlaby, and is virtually pure Booth, a son of Bythis ( 25700 -of the Warlaby Bonnet line), with only a dash of Parkinson's Clementi remote. ly occuring between the old Warlaby foundation, and the later additious of Baron WarInby, Britinh Prince, Valacco and Prince of Buckingham. Huback junior,' who took the
seema hanors to Towneley, is from Duchess of Latueater 5th, of the Bampten Rose line, with thglewood, Precedent, and Lonis Na. pulem Ind intermediately, and his sire, the yrize winning Baron Hublack (25099) was by Barun Oxford, out of a Grand Duke of Lan. eact-r cow brell at Beammont (irange. Lastly, Mr. J. K. Fowler's thindin the class, Rogal Genewa, chans descent in !aryo mensurs, though not purely, from Kirklevington short-homs. * * The first prize cow, Primrose, bred by Mr. L. C. Chrisp ilawkhill, was a strong infusion of Booth by her sire, a Stenwick bull, and by the mother some Princess blood mixed with the Faldon. side iamilics of Mr. Milne. The scoond wimer, Mr. W. H. Hewitt's Nelly, is com. pouaded of the mixed familiss of the late Mr. Stratton; and Mr. Garne's Princess Alexandra, the third prize cow, has a lineage statung (at the nearer end) with the :anmes, not prominently known to fame, of Itex (24946), Programme (2060S), Progres. sion (16:70) and Tom Painter ( $15+23$ ), meaning relationship to the short-horus of Messss. Bites, Booth, and Peel, Earl Sponcer, \&c., \&. By the by, were any of our readers struck with the number of good white shorthorns at Cardif? Jeclly and Princess Alexandra are both white. As to the breeding (alraady sufficiently detailed) of the three prize cows, it is in every instance mixture, apparently withont design or aim. Pure sthort-horns were put to pure short-horns, the surt warying each generation; no attempt to keep fammics at all distinct seems to have been even contemplated by the breeders. This is the case in a great number of herds. Sometumes the parents, unrelated in deriva. tion but alke in type, are brought together wisely by men who know what they are about. It is but an experiment when two struge kinds are united, yet one that may be tried with few failures sf the experimenter possesses the knowledge, the power of ubservation, and the instinctive aapreciation of fitness, indisyensible to certain success in stockbreeting. Thus we find sometimes pedigrees seemingly heterogencous resulting in anmals of uncommon worth, possessing the mathed claracter more frequently indi"auve oi dimeent from an establishod fanily cierved from kindred sources; but there is anotherexplanationof the up.starting of prizeuiuners where least expected, and that exphation may be summarised in the word urfict-rut. Tut that in stock-breceding good Can: come out of unmitigated bad, or somethag out of nothing; but there is good, nore or less remote, in every strain of Hord Book short-horns; and what is called a "lucky hit" may cause the re-expression of qualities long hidden.

We understand that Mr. Richard Gibson, Iondon, Ontario,lauded his sheep safely, while Mr. Miller was a loser, as also was Mr. Snell.

## To Fatten a Poor Horse.

An exchango says;-Many good borees devour large quantities of ernin or hay, nud still continue thin and poor, the food eaten is nut properly assimilated. If the usual fond has been unground grain and hay, nothing but a change will effect any desirahle alteration in the appearance of the aninal. Jn cave oatmeal can not be obtained readily, mingle a buabel of flax need with a bushel of barley, one of oats, and another bushel of Indian corn, and let it be ground into fine meal. Thia will be a fave propor. tion for all his tood. we the meal, or the barley oati" and corn, in equal quantitien, may first be procured, and one fourth part of oil cake mingled with it, when the meal is spriakled' on cat food. Feed two or three quarts of the mixture two or three cimes daily, minglei with a peck of cut hay and straw. If the horse will eat that greedily, let the quantity be gradually increased until he will eat four to six quarts at every feeding, three times a day. So long as the' animal will est this allowance, the quaniity may be increased a littlo every day. ${ }^{\text {. }}$. ut avoid the practice of allowing a horse to stand at a rack well filled with bay. In or: der to fatten a horse !that has run down in :lesh, the groom should bo very particular to feed the animal no more than he will eat up clean and lick the manger for more.

## Meeting of Shart-horn b:eeders.

A meeting of Kentucisy Short-hora breed. ars took plaee August 21st, at the office of the Farme i' Home Journal, Lexington, in pursance of the coll already noticed in our colomns. The following gentlesuen were preseat: A. D.Offutt, Sott, Chairnan; Ben. F Vanmeter, Ularik, Secretary; W.'T. Haghee, Wm. Warield, Ben. W. Emitb, T. R. Estill, Jas. Farra, P. C. Kidd and W. B Kinkend, Fayette; A. J. Alexander, Woodford; Thos. Corwine, Pendleton; Wre. H Graves, Seott; Jas. Hall aud ca M. Bedford, Bourton, w W. Goidard, Merser: Dr. W. Cunningham, N. C. Vanmeter and A. Benwick, Clark. A'ter coniderable discussion, the following: resolation, introciuced by Mr. W Warfetld wns unas:mously adopted.
Resobisect, That this moeting cordially approves the call for a Sational Convention of, Short-Horn Breeders, and to more fully carry out that riew, suggeot that a State Convontion of the Short-Horn Breeders of Kentucky be called to meet at the Court Honse in Lexington, September 19th, at 12 o'clock $\mathbf{~ M . , ~ t o ~}$ appoint dolegates to the National Cou-* vention.
A conmittee was appointed, consisting of ${ }^{\prime}$ Mesers. Highon, Kinkead and Kinnaird,* with insterctions to prepare muitable reana=" tions for procentation to the StateConvention!, The considention of the Shert. Horn Hord.t Book wae deferred.

## The Sipplies of Stock

 the sasant: if etass and other stowk foe: obliged the rewte-s to sacritico their stoch at raicons ${ }^{2}$ :- ev, thas diminishing their cap. ital ani his - uraving the b- celing of stock. It is to be h पeed and expected that tha present pe:s high prices of lean and hat atock will greatly stimu'ate incr, ased stock. breeding The increase of population and industrial prosperity causo a greater demand for anima! frof, and a consequent rive in price. I di, not think that meat will be cheaper for some sears to come. I bave al. ways had an opiainn that we do not, as farmcrs, wake meat enough, and it is evident that with so paat an extent of grass land (halt of the kingdom), much of it very poor, we shall be often eubject to the evil. arisisg frona dry seasons on permanent pas. tures. An ample and more cortain supply of stock food can be produced on arable land by growing winter and spriag beans, clover, winter tares, Italian yec.grass, mangle, turnips and cabbage, and win'er oate, all avail. able for anima! consumption. Dy the usc of cake and foreigan conn, with cut straw, te., muck meat may he made. All this requires a greater anveable capital than ts generally nvested.-J. J. Mati, in Norkhom Lix. mes.

## Weaning Lambs.

It in very freeiuentiy the case that lambs are let rua wi h their iums too long, waith has an injurious effect upon both. So long' as they run together, the lamb will depend on the milk drana from its mother for sus. tenance, which oiten does not amount to mush, consequratly, both are the worse for not being acpafned. Persobs who bave had laroce experinace m sequ-uising generally agree that four mombis is the properage to wean laniss of uil ireeds.
anden revais to a con-iderble extent that it pill not du to separate lambs irom the ewes in "doydays." This is all fudge, and the sooner superstitions ideas are abamoned the bett ry modise gomd pasture, adi givi. them gooll cars, ta the all imnorn tornt erstion When seprated the lanhe should be put so faramatet.ate they will nat be in hearing of exh other, as this canses them to to be restiess and uneass:

Dount tarn the lambe on fresh clover pasture, as it is certain to canse souring and other ailmenta; good timuthy and blue grass is the beat. but it should not be very long As anon as pasture begins to fail, or at least so soon as the liss: frosts have touched the grass, a litile arata feed oi some sort should be given. Oxts and bran mixed ton."hurs make a niec feed to bezin with, and a hitte salt adoef to it whit give them mor" $i$ a relish for it : rye aioo matises a tirst ruts feed for them, bat it is wht ante so well withed corn asaica an exerimen wia er feen sont care shouli be talsen at fres wot to friti ton mech
-lation It is beetto puta fer ablatal slacy o th the lambe to inte: thon lowe to ©om" whin called
The ewes should bre $\mu$ : on the Arent pature on the farmfor a itan didy to asois undrying up the milh, amh simay be fomand necessary to cailk some of thew a time or two.
Should cold rains prevaii doring the early fall months, lambs should be pat undewhelter, and have some hay given thom in the racks; and se the seasno advances they should be kept in of nigh's. By doirg this, by the time winter eets in, they will be so taught to eat that the cran;e fron pasture to dry feed will not be perceptibla.

It will not requird a person to keep sheep many years until he will find oat that the main thing in wintering them is to keep them up in the fall, for if permitted to loose flesh then they will nut recruit up again dur. ing the entire winter, more especialiy is this the oase with lambs. - Ayrichturai Cm nonwat

## Eclecting Caives for Mrikers

: writer in ose of cu: exchang $\geq$ 3ags: $\therefore$ to prints thot inditate the grod cow ace discercable in the cali, and why not? This may stagger sore dairy men, but that ts just what we wish to do 'This wholesal stuach ter of calves in the spring is wrong A cult will shou a good milk mire t. as urnll as a cour, and a rich cream colored udior as woll as a con; a healtby, thri ty looking and strong loin as well as a max And thase points make up the onv avers time. Te ${ }^{+}$ the breed be what it mir, this is our exper fence in the matter $A$ calf that ia worth tra or fifteen dollare thald not be killed for its mare hide, fae the lack of juriverant is "tlect'ng."







 w ye all vold off at remarkably gen! prions, $\therefore$ averag. lueng E17. 13; of Ampathe ighest priced lots were a pair oi the Heniecton and Periection pedigree, which sold to Mr. Koze for fi:3 guineas. Another lot bo Reflection and Monareh went to Mr. Bemets for 35 guineas; while the same gontieman secured the shearling ram (hame sor a similar tigure Twoother ioss soll for 30 guineas ut :3 guineas respectasely, and others wer, happosel of at 20 and 15 gumeas. The int. tings were Cinarley to Mr. Lughtiont ior 15 guinens: Valentive, to Mr Marsten at 25 guness; Rocket, to Ar Atkin, for 1.5 guincan. and Flash. to Mr Princss. for 15 gu:a eos. T'ie ewes averaged 101s. cut:.

## Foot and IToith Disease nEuglat




 aire, during the low wis i bugt, thene
 this disease, whin an (ii at atershe this


 every district in the conne:
The "fry", $r$ " say." Scom Nothamp-

 receised, notwithstanhar the most righi precautions on the par: of the local authorities.

 Gughand, th . Last ret.ry -'ewis, a t.hal
 ham are:s: wite sn alat... . j, "at veral iresh oath or havestik n ! ? .... aring th:





## Short Fums gacembe to Iexayz.



 :andes the - . viagreply:
 feret 1 compared with tom Mors L Lorn, to at $\because$ mbseli whinh wag hetor for the ar . . to keep. I have given the Short Uoms
 , wns, viz:

 - nut Enda' .os of -hant IEnts, an tested in




 whe t..es o bit: gi.c , we act: le the
 ence sf iavor of the stu.t Hu.x, in mey astimatimat.ue.
2 a the diotruta wisere emik is carrted to the cherse factories, tise cow that will give :hurty or forty pounds of ulik a day is of much more value to the dany farmers tean one that does but wive umo thon hali that amount, as ten pouncis is an averdor of milk taken for one pouad of cheese in ali good faciories that are wall undawed by a good chece maker.

Francis Rutela to'd the writer: that the firat
 minds of hutter in q weet on zrapa alone, n trial: tha sheir are gowe a ilkery nimang

can be fotialias well in that nee of cattle as any other I will mention a single family : In purchasing a heifer of Mr. Rotch, he told me she was from his best family of cows In breeding her to the innported bull Marquis of Carabras (11780) the production was a holfer, dropped in 15006 . Ete is now in my herd and a regular breeder. Her usual gield of milk in good feed has been an average of 40 poandis per day She was brad to Eoho of Oxferd, ( 1500 .) The product is a heifer 7 whose daily gield has averaged 45 pounds, frequertly giving 50 pounds in the tlush of feed.-She wis then bred to Lord Oxford, (3091.) The product was a heifer that has been fully equal as a dairy cow to her half sister. she was then bred to Ellsworth, (4780.) The produce also a heifer that bas given more bulk than cithor of the others, thus shownag couclusively to me thot good milking qualities can be improved and perpetuated is: Short Horms, and after trial of a score of years, am fully of the opinion that the Short Borns can be bred to produce as much and as good millk as any race of cattle and when dry: will fatten as casy as any other beed. and furnish a large amount of beef ot the quality; the cows mention od in this tamity hare all had finely formed bags, witi large handsome teats, and with ote exception, are now in my herd, although now they are old cows, they are kept iot their saperior excellence for the dairy:

Let bie state soure of the defecta of the Jersejs They are very likely to have sma! teats, and to milk very slowly, frequently taking twice as long to milk them, by a good milkes, as it does a con with good teatz, that gives rouble the guantity they do ; thea their mis is not uniformly of the richest qualit;, as i have been frequently told by their oxners that there is a was: difference in quality as well as quantity, aud that in selecting. there is as much need of care in selectard the Jersegs ate in any other breed. They are very liahle to be viatous in both bullanicore, balls particularls so. Fraucis Roten trid the writer, a few years since, that ther wild disposition was a great drawback to thens as iara stock; also, that if a man wanted a cow for family use, uoless his famils uas saall, the Jersey cow would not gise mils enough, and fer peraons buew then, o: do cow know cetter than Mr. Rotch about the Jersess ; but all are not as houest: to tell the truth about them as he was to me, as I has in pursuit of some females of the brow. whea he gave me the mformation

The itrsey is a very tender animal, and must have the richeat feed to keep her in fair condtinn as a dairy cow, and that's one great secret of the richneas of her milk.
have known them ticed as family cous in eevera! instances, and dispoeed of becuuse they did uit fill the bill.

The writer served as one of the juriges on Jormey a last fall at oar country fair, andiaquiring aluout the miikiay properties of a Jers-y from a notgh herd, the owners satd in reply to
the question, how muck milk doos she give to a milking? "About as mach as a man cau drink at once." All the Jerseys shown had very small short teats, and that is one great defect in the Jersey cow for the dairy. In the trial I have given the Jersey cow with the Short Born, in my orn dairs, and from all information I have been able to get from Jersay breeders, I have come fully to the conclasion that the Short Horn munt be the better cow for the dairy, either as a grade or full blood, and when she is disposed of for beef, I have sold some at $\$ 100$ and upward, which is no mean aum for a cow when her milking days are over, and ahe is sent to the butcher's shop, the destlay of all races of meat cattle.

## Record of Stock Sales.

## "Boora" Sale

On the last day of August, the sloct-horn herd of Mr. T. Bracewell, Preston, Lancashire. Englaud, was sold by auction.

Unicrtumately, the foot-and-mouth diseast had broken out a few days previonsly in the herd, so that, as the animals were put up on the sole comition that they should be retained by Mr. B. until he could give a qualitied veteriary certificate of each individua!'s perfect healti:, the bidding was little affected.

The sale went a3 isilows:-


Lond Duamore, on 5th September, sold off a numier of cattle, a!! Bates, showing in prices that, aiter all, value of hitgh bred shorthorns depends more oa the intrinsic rorth of the individual animal, than repon Booth, Bates or other family blood.

The official returns of this remarksbly sue. cessiul sale are as follows:-

## SwMnay


Of the bulls, the highest price, 400 gs , was ior Baron Oxiowl 5th.two years old, a grandson of 3l Duke of Thorndale. tirrough his dam, Lady Oxford 5 th.

Oxiord Duchess, red and white, calved July 2,1571 , by 6th Duke of Geneva, dam 11th Lady of Oxford by Bamon of Oxford (23371)-Mr.'R. Pavin Daries Gloucestershire, $1,200 \mathrm{gs}$.
Marchioness of Oxford, rona, onlved January 21, 1871, by 4 th Duke of Genera, dam Sth Maid of Oxiord by 2ad Duke of Genera (22759)-Mr. R. Pavin Davies, $1,010 \mathrm{gs}$.

Marchiones of Oxford II, ral and waite, calved February 6, 1si2, by Gth Duke of Genera, cam 3tia Maid of Oxiord by $2 d$ Duke of Geneva(23i52)-Mt. W. Angerstein, 360 gs.
Sady Thormale Bates LI. roan, calved October 26, 1869, by 4th Duke of Thorndale (17750), dam Lady Bates 3d by 4th Duke of Oxforl (11337)-Earl of Rective, 805 ge.

Cherry Princoas, roan, calved April 2, 1870, by General Napier (240:3), dam cherry Duchess Sth by 3rd Grand Duke (16182) -Eanl of Bective, 805 gs.
Marchioness III, rom, calved July 21, 1370, by Duke of Collingham (23730), dan Siddington lst by 4th Duke of Oxford (11387) --Earl of Bective, 535 gs .

Bright Eyes II, red. calved August 1, 1865, by Royal Butterfly 3d (18754), dam Bonny by Oxford Duke (15036)-Mr. H. Brasscy, Kent, 530 st3.
Siddington VII, light roan, calved October 9, 1868, by 7th Duke of York ('7754), dam Siddington 31 by 7 th Duke of York ( 17784 )-Earl of Bective, 500 gz .
Marchioness II, r roan, calved June 21, 1870, by 21 Duke of Collingham (23730), dam Kurklevington 12th by 4th Duke of Oxford (11387)-Earl of Bective, 455 gs.

Lady luright Eyes III, roan, calved May 12, 1S71, by 7th Duke of Cork (17754), dam Bright Eyes 2d by Royal Butterfly 3d (18754) -Dake of Devonshire, 375 gs.
Lads Bright Eyes I, roan, calved August 24, 1568. by General Napier ( $2: 1023$ ), dam Bright Eyes 2d by Rogal Butterdy $3 d$ (15751) -Mr. II. Brassey, 360 gs .
The part of the Dummore herd not offered at the present sale comprised the Earls American importations, one or two favourite old cows, and a tribe known as the Reverys - 29 head in all; and Bell's Blessenger states that previous to the sale the sum of $£ 15,000$ was unsuccessfully offered for these animals in ono lot-also that after the sale two of then were sold, Red Rose $2 d$ and Red Rose 3u, for 2,000 guineas.

## The Brant Short-Horn Sales.

The sales of thorough-bred shot-horns at the Plains and at Bow Park came off on Wednesday and Ihursday, as announced, and were very successful.

Mr. Christie's sale, from the length of time his herd has bcen established, and the widespread reputation of some of the animals included in it, attracted from across the lines a number of American buyers, and on not a few of the lots the bidding was very spirited. The weather was exceedingly fine; the cattle, though not in high condition, were seen on the grass lasn t) great ad cancage; and a better company never assembled at a shorthorn sale in Canada. Twenty-eight cows and heifers were sold, for an average of close on $\$ 300$-the highest price attained being S675, for Ruse of Summer, and tho lowest 8100 , for Beauty. The sale of Knight of St. George, a pure Booth bull, bred by Mr. Carr, of Stackhouse, and imported by Mr. Christie five yearm ago, was the grand event of the sale. The bidding began at 8300 , and ran rapidly
up to $\$ 1,000$, when the fight became a three-cornered one, and was finally won by the agent of the Honourable Samnel Campbell, of New York Mills, New York, at $\$ 1,235$. A number of othor bulls were disposed of at prices ranging from $\$ \$ 3$ to $\$ 305$. The sale wound up with a lot of Cutswold and Leicester sheep. The buyers were chicily from the United States-Mr. Mydo, of Ross county, Ohic, Mr. Grimes, from Ohio, Mr. Wood, from Nebraska, Mr. Campell, of Ner York Mills, and Mr. Bates, of Oswego county, N.Y., carrying off a very large propurtion of the animals sold.

Mr. Brown's sale at Bow Park came off on Thursday, under the heary disadvantage of a continuous pour of rain during the whole day. The attendance, however, was very good under the circumstancer; and though the audience had to seek shelter under the implement shed, and the anctioneer had to perform his duties with the crowd pressing around him, a large number of animals were disposed of at good prices. The buyers were principally Canadians, among them being Mr. Clemens, M.P.P., of Waterivo; Mr. John Miller, of Pickering; Mr. J. I. Smith, M.P.P., of Ailsa Craig; Mr. John C. Suell, of Elmonton; Mr. James I. Davidson, of West Whitby; Mr. Stephen Moffst, of Ci:it; Mr. John Jachson, of Goldstone; Mr. Robert Miher, of Pickering; Mr. Matcolm McTaggart, of Ciinton; Mr. Joh: Pan, oi Hespuler; Mr. Aitcheson, of Guelph; Mr. Francis Mrmer, of Princeton; Mr. Juhn Wear, jr., of Wesi Flamboro'; Mr. James Cowan, of Guclph, Mr.F. Yorst, of Hanorer, Mr. D.rvid Sterenson, ai Lentinciz, Mr. J. in. Kennedy, of Richwood, Mr. Stephen P.w.:. er, of Mount Vernon, Mr. Main, oi $\mathrm{W}_{\mathrm{o}}$, Flanborough, Mr. juhn Millerw, of Buckthorm, and other well-known breeders. Mr. Wm. Fairbairn, of Carson City, Ncvada, and the Hon. Samuel Campbell, of New York Mills, N. ${ }^{2}$., were aleo the purchasers of soverallots. Furty-theo luts were disposed oi in ail. The bull calves ranged from 870 to $\leqslant 290$, and averaged about Slit). The heifers ramge. from $\$ 105$ to $\$ 10$, and averaged a hittle over 8180. The Derkshire pros ranged irom \$17. 50 to $\operatorname{si2}$, and averaged $8 \%$.

Mr. Strickiand of Galt discharged the dutien-of anctioncer at buth sales, and received $h_{5}$ h evomumuation for the admirable unaner in which he did it.

Mo DavidRecsor, Jr., Mardham, returned from Eugland Aag. 1. with one bull and four heifero-Short-Horns-savenclydesdale colts and fillies, one beautiful Shethand pony, stalLion, and some Cotswold sheeq.

## Wool Product of the World.

In the following table will be found a near approximate estimates of the number of poumts of wool annually produced in the diferent countries of the worid, fiom the most rcliable information obtaivate:

Menderfix.
Inia, ive'nding fussia in Asia
330000,060
Girent liritain and Irelard
260050,000
Germany, Netherlands and Bel.
gum. . ... .... .... . 198,000,000 Linted states. . . ..... . .. ..1:10,000,000 Australia . ...... 130,000,000 France . .... 196000,000 European Russar ... $125,000,000$ South Anversca...... .. ...: .. .. . 110,000,000 t siatic Jukey .. . . . ..... . . $100,000,000$ Asiatic Curkey Spain 62,000,000
Persia 50,000,000
North Africa.
Turbey 50,000,000
European Tarbey.........................
Italy. $42,000,000$
Cape of Good Hepe
Portugal
Caneda.. $40,000,000$ $20,000,000$ 17,000,000

Sweden and Nor............ .. .. 12,000,000 | Greece. and Norkay.. ........ .. |
| :---: | :---: |
| .. $11,000,000$ |
| $8,000,000$ |

Denmark 8,000,000
Suitark 3800,000
Switzerland. 3,000000
New Mexico
500,000
Tutal
.1,818,300,003
Taere are obher countries that produce considurable guantities of wool, but as they expont little or none, it is not brongit into tide anvarat.
 Mr. Ohwers celebrated cow, (Irand Duchees 17th, has just pruduced a struing, healthy red bull calf, by Colonel Kimescote's Duke oi Hilmarst. "Her last wali was alvo a bull, amd wis suhl o: reaching his tuelfth month to. : , wh of $1.200 \mathrm{~g}=$. Mr. AlIntosh's G.ra! Wadeas elst has also calved a roan w.t. by the 3.1 Duke of (xumem, and . . ...ntr there has bentatuee a fall of heifer Alves latco at the A tvering l'alk Merd."
 najority of the breeders addressed in rela. tron to the resolutions alopter! by the Insi. ana Sbate Convention of Siort-llorn Breeders, suggestiag the propriety and importance oi hohling a Nationsl ('mvention, having responded iavorably thereto, and most cor. dially opproved of the above mentionch re. solutions, the summittec apprinter and anthorisal by the In lisua State Convention for sus'i puapose, ferl wreremonl in issu. but a eall for sach eonveation.
Thrretire we to wane and stet, irom its continl $!$ yition, rulroad incilitios, and a preferenee expressed iy the mzjority oi breed. ers banci irom, Indiamapolis as the place, and Welmesday, S Nember 9 Thi, 150 , the time, ior the assenhling of a Siniomal Convention of the Shorr-Hom brecders of the Eined sites and cianada Anitwe furtiocr trust that all bree ?ers will exert themselves to nt. tewl tite whrentina, sine we cannot foubt it will be of great intorestand inompance to 2ll.

Clanide Mattiews,
(ikn. Suh, Ababorrif, Committce.

## Getctimatp 38patment.

## Ch:onic Diseases of the Respiratory Organs of the Horss.

ManMes of EROKEN. WISD.
Br. is $n$-wind is a dis ase that provails to a very grest exient amunest tha horses of this coantiy, and although as of a fatal charactar, it greatiy impirs the usefulness of an animal, and materialy deyrc iates his marketaile value.
As regards the pathology or true nature of this complaint, a number of theorics have been brought forward, and unphysema of the langs has long been looked upon as the origin sf the distressing symptoms, but the real cause or nature of this discase we believe is impaired nervous inflinence.

The lungs and stomach are largely suppli. ed with nervous inflaence oy means of a great nerve, (pneumogastive), whish is liberally distributed to these parts, and when the great centre of digestion becomes afected through injuducious feeding, it necessarily impai-s the nercous force.

The great excitement tharefore of brokenwind is partinl or impaired digestion.

In iarm horses how often do we see it follow the continued use of durty clover hay, choppedfood, de., which abnomally distends the stomach and bowels, and afecte the nervons power.

We have often known of yany horses healthy in every respect, turacd into the barn-yard for the uinter ment!es, and fed on inierior hay, peastraw, \&c, and in the sping were found to be suffering from broken-wind, yet had never exhiblted any appearance of organic disease of the lungs.

It oceasionally, howercr, resulis from other causes, as a seçael of severe cases of strangles or follows a prolonget attack of in fimmation of the lungs.
This troublesome complaint rould be of less fregucnt occurrence if proper care was exercised in the fecding of horses; by giving nutritiona food in moderate quantities, and at regala- intel cals, and by rot snbjecting bosses to rapid exercise when the stomach is toa much dister ded.

Broken.wind is rarely seen in cavalry, hunting horses, \&e., asd their freedum from it is entirely des to the regular and careful mode of ferding.

Broken wind is an affection that is usually easily detected, and the distresing aymptoms are increased by suddo changen of terniterature. The beaving or quisk lifting of the flapks is readily noticed after aharp exercise, the inspiratory movement is quick. ly periormed, whilst respiration tokes place slowly, another choracteriatic symptom is a prolonged and hacking cough, easily excited by premare on the jarynx, or mudden ohanget of food or temperatare when the dineme is confirmed-it-becomet altogether incerable; but the very worst of canom, can be benefitted
and the distressing symptoms relieved by proper attention to feeding，regular exercise with an occasional dese of larative medicine
There are certain medicines as various kinds of yedatives which temporarily reliove the brosthing，but all poperful drugs mast be need with cartion．The isdide of potas sinm，or the bicarbosate of potash in drachm doses morning and night will frequently givergrant relief．

Horses affected with heaves are sometimes severcly drugged for the purpose of decep． tion．When exposed for sale，where such is suspected to be the case，the horse should be giyan a good dr！nk of water，or allowed to eat a fer ponnds of hay，and then subjected topgyid exercioe when the true nature of hijhoomplaint may be easily detected．

$$
\begin{aligned}
& \begin{array}{ll}
\therefore \therefore \\
n & \therefore \\
\text { Heart Disease. }
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& \because \quad \text { Tッ, } \because \text { - EUt, }
\end{aligned}
$$

－Ditur Sas，－I would eonsider it a grest facor if you wound purait me throngh the columes of ywar valuahte joumal，to say a for wust，wo a divease which is comparative－ ly rare anongst the equine species，viz．：－ Discase of the heart A few wecks ago I was called to ses：a mare which had been showing sigas oi reaknues for some time On entering the staci：$I$ wise struck by her languid ap． pearance，plaang my tugger upon the sab． maxillary artary I found the pulse very weak and ranicy about 90 beats per minute，aus． cultation revealed a bloping sound instead of the regular beating of the heart，venous pulsationquite plain in thejugular，respiration slightly acee！！erated，appstite impared and extremities wold．After diagoosing the dis－ case，niy prognonis was of course，unfavour－ able．A fess days afterwards she died very suddenly，mix post mortem examinati•n 1 found a iatzy tumocr in the leftauriclealmost filiag to，pangifg throush the zunculo wentri－ cula－benitag into the left veatrule and ocuporise 3 larg 1 whon oi this cavitg．

## Stönci Udecr in a Cow． <br> 

Sirt I kive a cos，oae side of whose bag swells p．ciculually，and while in that state she gives thisk milis irom those teats．I thought perhaps h．r bag got hart， 80 I put hor where sibe couli not hart it，lut still the same sile remained swollen，and she still continued to give thick milk．

If gut can throw any light on the matter you will grazily ublige

## Kinbura．

SCHODLMASTER．
Sweling of the udder probably results from exposure to colld os wer，or from injury，and if the cxatants are kept op，the fuactions of the gland may be conpletely destroyed．
We wonld recommend the swollen parts to bo bathed with tepid water daily，and a＇ter． warde rubbed rith a common sosp liniment． and give internally two drams of the ch $\theta$ ：－ ate of Potagh daily，and contians the medi－ cise for eight days．

# The 怒axy． 

## How Water and Cold Infinence the Flow of Milk．

We hare callod Whation，from theno to time，to some of thetrivines whist operato injuriouty on atiliowtion it lescaning tho
 ment，do．，dex．猉 Bentom Jourwas of Chewidry given in thentent of bho lom of milk on mocount of then int laning allowod to atrond in water duriskututatrsather．Daigmen who hare wheams，or any considerable body of water connected with their pasturea，will have oboorved that cattlo，during hot wea－ ther，are very fond of taking＂their daily bath，＂so to speak．They will not unfre－ quently stand for a considerable time in the water，sometimes with the water up to their sides．We prosume this is done manr times by anmala to avold the annoyance of thes； but whaterer cause leads them to stand in the stream or prol，it geems the anduence of the water is to check the how of mill．The fact 3 stated are as follows：
＇Dumag the past umner，in the hot days of July and Augnt，the ammals resorted to the lake to drink，and，after slaking their thrst，they would wade into the water and remain sonectimestior an hour or two with the legs hali mmersed．This habit it was found meariably diminished the flow of milk at night，and，in order to learn the extent of the diminution，obserrations were made．It was ascertained that standing in the water an hour diminished the flow to the amount of eight or ten quarts in a heard of thirtien cous．The liss was s．great that whenever thes resurted to the water they were dracea away tu parture again at once．＂
We penme thereare fer daymem whe
 the halite of a dug the damalang huw of


 wheh emants to bee mote wherally kwown and mate the hais of pratheal manas ment． It is surpming how math mote malk may be ontsiaed froma hered iny the obvervance of cre in litter thinger as rownets troatment， such ay the avendance oi all worry or ercite． vent of the esw，proper shelter durng cold stirmos，halits of kemdnest to andmals，regu－ bar hours and manmer of milkins，－not to
 thire，wheb of cours：are murn frnorally reongizel hy ewry mar whos gandur with the hambian of dary sto
＂We have learam，＂says the uriter previ－
 hend into the gard upon a cold day in winter and allowng them to remain fiftera nunuteq， the flow of milk tras dimunshed to a serious extent，and consequently the anamals were not allowed to leave the warm stable during the ontire winter，except for a brief period
upon warm，sunshiny days．Water is brought directly from a well into the barn， and the drinking vessels aro arranged so that the animals have to move but a step or two to supply their wants．Tho nature of the water supply and the convenience of access are most important points in the manage－ ment of milch cows．A draft of ice cold water taken by a cow in printer cuts ahort the supply of milk from one to tro pints，＂
We think it was Mr．Jamieson，of New Hampshire，who，a few years ago，made some direct experiments during winter in sightly warming the water for his cows in milk，and comparing the yicld with the quaa tity of mill when the cows were allowed to drink cold water from the trough in the yard The flow of milk was so decidedly in favor of the warm drink that he advocated the plan as more than paying for the labor，\＆c． Irobably there are not many who would care to tahe the trouble of warming all the rater tor the supply of a large herd in cold wea－ ther，but the fucts arenererthcless important． It it has leen foumd that cows will give more mill in coll weather by waming their water artificially，dairgmen might take the hint that it would pay to lead waier into their barns，or to erect some structure over the water trough where the water would be pro－ tected from snor and ice，and thus rendered several degrees warmer than the ice cold water with which they are usually supplied during February and Jiarch，when cows aro coming in milk．－x．A．Willard，in Rural Tew Forker．

## Keeping Butter for a Long Period．

Some time since we gave an illustration of a new meth n of packing butter to keep for ling periols．It is the invention of Charles If．White，of White＇s station，Michigan，and consits in putting the lutter in a sack fitted in a puenliar shaped tui）and so arranged that whea the priking it completen and the tuis furned no as to rest on the large end the batter will drop duwn an inch or so，leaving a clear space botwean the tub and butter． Strong lrine is new prod through a hole in the small end of the tub，to fill this complote－ ly．The briane in，ats the butter and whloly surrumis it，exchurling the air．The orifice is then closel un and the tutter set away in end place．The invention seems to us to have wry drat merit，and we determined to test it prationily Mr．White，therefore in ciptember last，furninhel as a tub of buttes which arrivel during very lat weather， whin we waciler farorahe fur a thorough tont，copecially as it hat stomi in the express oflice a couple oi days，expoed to the sun before we were notated nits arrival．The tub was then talion and sot aside in the cel－ lar，where it romand until July 13th，1872， when it was opened，but we found the buttor sound and apparently inargoud order as when tirst packed－ten mouths and a－hali previ－ ous．

From this test we are inchned to think that with proper attention from time to tione in surphying brine as it evaporates, bater may be lient swo gexre or mere in good orher by this method. If al tw intter sent to market we"e pat up in this way, the rish of banding would de vatly lescened; and for family uke, when the batier is mot neodedi for immedate conamption, the whan of yarkme is to de hisbly recommended.

Another important ientare in these ifecsages is, the lutter may be hifted by atie sack entirely ont of the inh, the end oit the sach turued durn ame the butter cat on desmabie whape for the table. The entung of butter being taken offas desired, the sack with that wbich remains is lifted back into the tuband thus treatel alternately until the whole is conmined. In the old way of packing it is quite difficult to cut the butter from the tub in grod share for the table. It is not unfre. quently in ragged aml maightly lumps, but with we White yackage the cutting may be made very weat and shapely.-Knrul よi้en Yorker.

## Factory System in England.

A enrrespomedent of tis l"tect /1.mald writes : - Cowsinng chetse making, iu whent fou talse a wority interest, 1 inty unanava that the prospect of a raphit spreai of tuatur. les in Euglandis not yet jery Urignt. Zite two whinh wore nponel in Derbyshire, =wo years ano, un.cr the anspices of a guatantet fund, are go.n ztading on their own zenrits. Tint quectun wavallable for threv yet s, but the prerone have voluatrrily libuated
 re ponsibility. This is a good sign. TYe present season is the crusial test of the fan. tory ajstem in tins cond ry, abd on the man
 extent, the future of Engljst coetse-mainace The accoants of the two factonles !ut $\ddagger 2+$ past season are not jee puibished. i"wit Christmas ine ci -use chea daposel of irua. the Derby Farinsy (whica was wayaged by Mr. Corathas Schertaerhurn, of North Gagel
 home-mide checse in D riaysbire will reach an average of a an: 12 etris. So far, se gon'.

## A Suggestion to Bntier-makers.

A correnpondent ei the conitig Geotlrmut rencre esugection that farpacts wan listot $x$ few cows, akeing hator for meightorive markets bave their coxy onne in carly in the fall, thas baving the man giold of mult at a time $x$ ben butter rommande a gool price. and also woiding the irouble of hutter asak. ing in hot weather. Amathor aivantage rlamed ja that in the hos : weation rinl tes a better time for :he cowe to resuperaie :bri; strength romake zhis plan succeasfil pro. vioiou mast le :made to feed iblerally is tall, winter, sull carls sorin:-

## Ficla of Muk-Value of First Clase Stook.

Sr. Juseph A. Howe of Nathen, Mass,
 cethan socty, 1 ots the average animad yuth of ath in inis country at ls00 quathger cow, wiale he thengite lisse of Jessex
 io bhow the , compatisive, merits of efmmen aud tires clarymalkerstobe gave an it $m$ an of his own exprience: naper.
"I sulected three cawifformy herl, we of which had been kept aponthe phace seves. al seasons and was thonght to be fally an average cow; the ctier two were sucerior. The quantity of mik produced iy each was carefully noted each week for a year. The result showed that, while the arerage cow proluced only 2100 quarts pher year, one of the others produced 3100 , and the other 3:00 guarts in the same time. There wasnopercep. tible differevce in the cost of keoping. * * Any farmer who can puowe a herd of sach cows can meke money by them.
" Theress no doubs," he contin:es; $\cdot$ int that the production of steh stow is entirely whine the rage of possibity. * * ahe

 tion, and hiose who onu then do no" often offer tiem ior atle. We mast raise at charselves.'

 4, whach contans a commanation from the owner of tae Maplewoul heria Mr. E T. Muse of Fitchhurg.) sowing the awraze
 orrs onime Juiy lst, 1572, ac follows:


| * | -10. | 1งテu\% | to | , 0. | -9s4 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| : 1 | (\%) | isil. 2 | . 0. | (\%) | 2:09 |

Mir. Mates ada:
It will be observed that all the milhing stock of the herd is ineluded-cows that have passed their prine, as well as heifics not arrived at maturity. Three cows gave in the thrce years am :verage of 3447,3215 and 3837 quarts of milk eacin jer year. One cow (E Eauty, No 240) gave 3 S2S, 3305 and 3519 guarts of milk jar yor for the ibree years
In order that inviners bany sppply themseives with cows that will arerage 3000 quarts of niik per amman, Mr. Mibes says all thet is necessary is to buy an Ayrehires bum, "tan? brech native, grade, Devon and shorthera
 sina iny swe that an a fow years yon will beve a hem that will yidal a nilk to the desmed equatity."
In Felnary last he foum thas 24! younts of wath nom has Ayrsarey made one yomad <i butior wate avernge. A berl ot hagh grade shmi-boras, owned hy Br. it T. Eisworth. during eleren manits averaged one
 :mak.
In offrying premitas ior the beet averney of :aik, Mr. Milles thims the arerage shouid be for the violeyear, isst cad of two monthe, 23 is recpuired by the New Eagland Agricu::urai Socivtr:-Exchames.

How many Pouxds of Milk does it re-
gaire to make a Poand of Cheese. gaire to make a Poand of Cheese.

## (TU : Zitito.)

Mase intorm me thoogh your siteot devotel :o Fumery, how nuay !ounde of wilk is whes :0 mate a gumal at elsesw, factory


Chy Carrespundent's trey, hike many ohers, cammot be ansucref abobutely, so mu it in the gich of che ere from given quantities of milk dere:idiog upa difereat circunstances; the quantities may however be - ninto vary from $8!$ to 11 l les. of milk to one pound of cheése. A factory that does not average over 10 lbs ailk to one 1 lb . cheese, throughout the yeaz, dioes ucil. In the spring it is usual to take from 9 to 10 lbs. in the summer from 10 to 112 llos ; as the weather gets cooler and cows fall on in mile, less weight of milk will do unthl you get down to 8.] liss, and late in antum we believe a lh. of checese has beon made from $\mathrm{S}\{$ llbs. of milk
fhen again, it deyents aytat toal upou the malk : an ofd cows or ctripur's milk is bzarer that: ahat of a yonag or freciacolved 6w.
One great reason why it is dininclt ior et farteyy wavagen purd of checse fom ten of milk is that they are hely to get the moat malk at $a^{2}$ time worst adated fo: :making deere- in which ease it is justanianossibility ionmate the abowe average. Again, barmers are spt : kataw which are their beat bution sows ami kecp that nute back.
A Fectory, to shew a geon retura, should have milk for at least seven month, aud have all the cows to cone in at the same time, anel early, su as to get a good start, and the use of each while shes is at her ibest, and before the hot weather sess in, thats to get the cheese early in market, commant the best price, and have it sold before the this become tromblesone. It is well known : inat early ande cheese cures faster, with less nipk and at liss expenso, thin late in thes cuason, at Whech tizne you are obilyed to have a fire and ineny other expenses.
\%. ย. J.

## To Purify Milit Pars.

 suitable dumenaions for the size of she diairy, irom in half harret to a logehend. In this shate quicklime, enough to make a thin whitexash when fall of water, xad sover to keten out dust and dirt. The lime wili हettle, lcaving $x a$ lution of lime over it, as clear as spriag water. After uqing the milk pana, etc. wasb them as other utensily are wathed ana rinsed; then dip them in the adjoiniag cask of lime water, sothat evers part be. comes inumersed thercin ; ect wem to drain fand dry, and the parification is complete....

# Woultry gavo <br> The Prodnction of Eses 

Among the samitat ohj - ts worthy to co :s mand the $b$ ecter she tetfors is one wit $c$ considerng its special util: y . seema to have lens attention than it demands. We refur to breeding with refereuse to the new aym pro duction of egra.
Our highly hrod and priz: fouls while they excel in onmy respecta, incline, ta the oase of some insels at least, to prodoce fever and less fertile eggy than their less preten tious neighbors Nor can we worder at it ; for oar poultr; breeders, in their eay ranso to please the eye, aneciti e the more useru. qualities to heanty, grawe, or uther fars points. No more cha we espoct tio tiul a fowl prosessed of avers dexirshle quahts than we can cale- tate oa bowaty sud bramu accomyanging carth other in the humas sub ject.

Now if the above rematis are !nte was are gaining a groce thiny ay 'o ming 3 tet. ter thing; we are "cobsiner Pette io pay Paul," and tu!s evil tomeary must bo whes. ed.

The remety is siexple, ia ancectiog bi da for breeding atocts, acen, maty such as com pare favorahly; as lagers, with other biede of the same variety, and rej-ct pour or indider ent layers, on matier box sue they may te in some other respects. [a the $n^{\circ} \times \mathrm{xt}$ plach let our Poult:y Socicties require of exhabi tors that they furnish a correct repoet as to the fecundity of the stosk show, auid in: struct the judgoa to give some consideration. however slight, to this nater Sach a coarse of action would do mack toward raising puen bred poultry to a digher stand-i ard of utility than they have yot attaiued.

Berides the solection of exira lasers to breed irum, there are ono or two tricks of the trade to which we may refort in order to promote the laying of egoss; sach as remoring two or th.ee times a das the eggs alremary laid. In their undoraesticsted atate fuwla lay, at cach litter, only on mway egga as can be asfoly corered and hept at the requi al teanperature; but if all the egye except one or two fur dest egge, ho racuved, raking paias not to disturb the binds and the neot, then anture tri.s to cumpeumate the loga, and onake op the rigizal number.
A cave in poi t came to orr notice uot long mince. A golden wioged wounpecker preparod her noest and lsd her zull unwiver, oightinall. Serea of the a wern chea gut. otly removed, zad the urat diay nhe hadd ar- -
 egg removel. untal the: poor hirei hati pro duced no less than twrutj.fuar exus at at ite ter, of just siree tiwenat ithomy do ace w.mid have laid it l. fo to herself

Farmeta w ! 11 kasow that xhou at dea stea's

rygy beiure ale bceina to nit: jet when lay. :0, the the he se tioe esg lueing reanorii eacia day. fowe entere that number ane fre. farntiy land is one hites We conchate.
 Thue extear val atary, and that fonis in. Mase to daget themsel ca to circurnetancet; so whle we would mot wish to lose night of the fancy points $\Delta$ reany attained, we trat b eeders will exdeavor to aucround thei: breedergstock aith su,d cireumbtancea as are calc:lased to encourage the inareasedi production of eggs - C'ur? L. Paimer, in Pnith:; Wowl
The fall ant winter ace the tumea in which (o) weed out old atock

## imporesu Cochas

Itr. a H. Z̈uaias, of Bmolslyn, writ a : "i have jast rarived imon Reor, Tomliu sov, Barainghan, Es, land another crop of must aoonerful, m: $\pm$ bati acd winte Cochia heas They arwed is ine condinoa, there betay ans : bather golet or rulled ois theal
 sery ked's, at say : uncoi, seat $t$ tea : $:$



 lat :a such small somp wa becuase beeders in Caada whe have o dered frara han be. fure hat ordered tom to bor shipuda ard $\mathrm{B}=$
samall compe, to save charyed fir my p.rre, I roulù s caer p. 5 a it:Al: moro chargus and;
 usich insusta :ixus ataje trip and good beathe"

## Wa:ci is the Best Breed?

Some of the "reeds alemaly mustionet, with the pur hase of a few sitting hemanatually, wide cas be returaed or killed whom done wita, may be als., th. best to timese with good anoge. Thes :t wit he hand to beat the Eamsurghs an eqorprodacti $n$, conparad uith tíe a nount if foosd coavumeri, as I and ievid. dly of opinion, from all I beve heea able to gather, shat witi a pretty fairsized flock au ananal arerage of nexily two huadred egos may be ohtrined from tach f,wl. The Laghorn will be mont usefal fowl i. such 2 ranse, atill su w.il the Ifoudsa; hu'cirhe of shese thr $e$, on grass, wil beat hullow in profit either che Puti,h or the Spanish Cowl. Where both a fair supply of eress and chickpons for the market are d.sirch, but the demaud fur th: las:ter is b:at mos lerate, tew hremis can surpate the Zut-



 bring cicuits in the mat.et
If, however, the are vi omeht of bronis
i.ces is objected io, nr ii a stewìy, regular
nuphy of cinickeas ior tahle is ijesirel, oth:-
bee ely become preferable. Where a publio matnet is tow whif whint, I nee hardily say tinat as a chicken-producerno fot a ill equal the lork'mó it gond rauge adi diy soil alow ai its beinas kept he th london inatket, "quelatig, no fowl will manex such file d- tits odd and fuvorte breed; and on a des, pa-ticularly it a chairy soil, there is realiy no dittcoulty su raising the chickens. The rpecala a tuantage of tha breed I need nardily ase is massive weight at a very early ase, nith a greav natural optitude to put meat untire bresst and get fat, or rather phany, than any other breed possesses. Prese ate very valuable qualities, which makes the Euglah D rbing for certain parpors3 the fuwl oi all otbers; but in other citcumstances it does cot do so well, and as an ega-producer almos: invariably fails.

Yor a gind, useful. family fow, whers chichens are ueeded as well as eggs for the fim 'y tabie. no !reed will heat the lirahma. lake tal: ceuad it is a gracd breed. The sheds a:e asither sicis nor worcy; there are a phenty or timen, and plenty of eyse too ; and sh... a esea'y to antat thren or four moaths a'. :cally rate zatle brdis. I grow fonder of :hem evary sear In ecosmic merits hoth rada wer: oity i ally equal, but through the t.oser sel-ction rit the Uari variety fur points , plumak' alone. the Inght is now in my indgmeut che bettor as a rule either for eggo or for the table, haviag beeu less deteriorat-
$\qquad$

## 

Mr. L. Wright, ia aim u-w butin wor's on Yo alt:y, has Ehesc obsureations ou green food which are of great iwyortance to all who at. t- nup: to breed iowis in contined duarters :
The last requisit: in the ctapge of diet is a resthe suaply of sreea Guob Here, waia, f., x's supison grass wil: aund matiention;

 negumers areignorant of it. $\mathbb{N e}_{e}$ well rentem. oer, ta cur owa carly expe iences, fow our iswls did, we could aut, at tirst. tell why; and joe tine Buff Coclata cock, whose onfy fu:le oras a stroog valtu.e hocis, was in partic: ar, greatly resretted. Aa experi acod fieud let :s into the 3 cret, and aiter that we had a, difficuly in ticrima. fuwls, evea where it is oft:n saill they cantion be lepes in hoalt , - iz. : in a said paved with la g, lagg - vaed. rise bewt eubsti ure $f$ ir wa-aral gram is a large freth turf thisurn in dan!y to amok $t$ ur or ivs hens; and eveu iu towus it is ritt:n :emesible to procure this, by giving child. ra a few pence =eary west wl ke.p op a rug.her su ily. Wh. ., tasi iv a.ot sllowed :n'


 -utu six pehs ; mytin some chind a iew gento
 fand uxixing is with theis sote ancut.

## Poultry Keeping.

The invest in poultey is wide-spread and on the tcrese. The magaificent show re centlyade at the Music Gall in Boston, was a sunucant proof of this. The fact is, that though comparatively small in amount, it is one of the most pleasing and profitable departments of the farm. We are glad, therefore, to ace that it has its full share of apace in the report of the Secretary of the U. S. State Board of Agricultural just issued from the press. From that we take the following:
statement of stortevant bros, sulim FRAMINC.has.
They say : "Our thock consisted of about thirty head in March, when tine account com. mences, and varied by purchase and the hatching of chickens from this number to about two hundred and twenty.
About April 12, a fleck of nine dark Brahmas was purchased and set apart.

About April 12, a flock of seven Partridge Cochins was purchased and set apart.

About March 24th, a Hock of six, afterwards increased to nine light Brahmas, was parchased and set apart.

At date, the dark Brahmas had laid 172 -gge, or $21 \frac{1}{2}$ per hen.

At dare. the Patridge Cochins had laid 158 oggs, or $26 \frac{1}{2}$ per hen.

At date, the light Brahmas had laid 673 egge, or about 97 per hen.
No separate account was kept of the amount consumed by those set apart, but an account of the quantity fed out to the whole flock is here given.

March, 4 bushels corn; April, 2 sushels of corn, 2 bushels of corn meal ; May, 6 bushels of corn, 4 bushels of corn meal; 2 bushels of oats; June. 3 buzhels of corn, 4 bushels of corn meal, 1 bushel of oats; July, 8 bushets of $\mathrm{c}: \mathrm{:n}$, Sbushels of corn meal, 4 bush $\mathrm{l}_{8}$ of oais; August 8 bushels of com, 6 bushels oi corn meal 5 bushels of oats.

By this account it appears that 30 adult heng, increased to 55 in Amril can be kept, together with their progeny, 105 in number, September 1st, from March 1 o September 1 , for 55 bushels of corn and 12 bu hels of oats.
Sulstituting values for the above form and calling each hen worth S1, as is customary, and chickens at half price, we have the following:
and the eggs and manure extra. But as this pouls y as euperior of its kind, it would bring on sa'c a larger price than is here given, whic materially adds to the protit"Ploughonan.

## Experimenting with Layers.

In the Poultry World, Isaac Lsade, of Ohir, gives the result of an experiment with different breeds of pullets in laying for six months, and the cost of their feed. On Sopt. 1 , he took 10 puljets of each of the breeds mentioned below, about six months old, gave them a yard 40 fect square, wath a comfort able house, and bept an exact account of eggs and feed, as follows :-
The Dark Brahmas ate 30912 quarts of corn, oats and hheat screenings, laid 605 eges, and weighed 70 pouncis.
The Buff Cochins ate 400 quarts, laid 501 eggs, and weighed 73 pounds.
The Grey Dorkings ate 3091 quarts, laid 524 esge, and weighed 591 pounds.
The Houdans ate $214 f$ quarts, lail 783 eggs, and weighed 451 pounds.
The Legtorns at $231 \frac{1}{2}$ quarts, laid 507 eggs, and weighed 301 pounds.
To make this experiment more complete. and to show which lot gave the most pronit, including both eggs and flesh, we have sup. posed the fowls to be Aressed and sold at the end of the six months at 20 cts. per pound; also, that the eggs were worth 24 cents a dozen (two cents each), and that the cost of the feed was $2 \frac{1}{2}$ cts. per quart, or 80 cts. per bushel. The figures woald then be:

|  | Cint of gied. | Value cogs. | value meal. | Tetal value. | Total profi. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bratmas | \$9.2 | 11210 | \$1400 | \$\% 2.10 | \$16 88 |
| Cochans. | 10.15 | 11.52 | 14.60 | 26.42 | 16.27 |
| Dorkiuks. | 7.52 | 10.45 | 11.90 | 92.35 | 1106 |
| Hicudans | 635 | 1306 | 910 | $\because$ if | 1941 |
| 1.cehorns. | 5.78 | 26.14 | 7.30 | 23.94 | 12.50 |


The greatest profit on the investment is in favor of the Houdans, with the Leghorns next and the Dorkingi least. It would have been interesting, however, to know the If ingh of the egos laid by the eeveral varieties, to see what actual difference there was in the amount of food furnished by them. and its walue at a fair estimato of weight On such a hasis it is quite probable that the Frahmas would have shown the greatest proit. And another item to be considerca ioy investors is, that, where the fowls must be contined, a four-footed fence will answer fir the large ireels whie for the light buitid breeds eight or ten fect will be necestary and even then their wings will have to b clipped. In nidition, it is the general verdict that the large breeds bear continement the best, and are more easily kept in good health aud from thrse vicious habits of phacking each other's feathers aud eating their own eggs. But all tro ds will give trouble enough in confinement, if unt furnished with plenty of cmployment, water and food.

Gamb- Bright red face; strong stout beak, slighty curved; round hard hody tapering to the tail; short, round, hard. thigh ; stout leg; flat foot; spur low. near the foot; scanty plumage, but very hard; tail scanty, carried rather drooping than otherwise; head moderate in size, but inoe, sharp, and snake'ike.

## Alyuary.

## Feeding Bees.

Bee keepers who have weak stooks and in. tend to ferd them should commence at ouce as it is far nore conzenieat to do so while the neather is warm aml hetter for the bees.
In lucalities where buckwheat is grown bees will gather in store this month, and weak stock may evea yet become strong; but, where luckwheat is not grown, very little houey will be zathered; with many stouks not as much as they consume, hence stocks that are short of honey whll require feeding, and they will take fecd much more readily now than when the weather becomes cold, not only so bat they can cap over all that is stored in the c mbs while it is uarm weather, that is, if the syrup or feed given them, is of the proper consistency

And it is much better for the bees if capped over, for it not capped it is likely to sour in the combe, when it becomes unhealthy for the bees, and likely to cause what is generally called dyointery.

There in no donbt but boes will winter equally well ou good sugar syrup as on honey ; but it must be good syrap. It shonld always be made of good white sugar, especially for fall feeding. In the spring it does not matter what kind of sugar is used.

The sugar and[water ahould be put together and heated until nearly or quite boiling. Ten pounds of sugar to eight quarts of water will make a syrup of about the right consistency if fed while the weather is warm, but if cool it may be made somexhat thicker by reducing tne quantity of trater. It is al ways best to ieed carly in the moming or late in the evening, I prefer teeding early in the morning, and give to each stock no more than they nill take up during the day.

The feed should always be placed in the hive and at the top, if posshine la frama hives the cap may be removed and the dish of feed placed on the honey board, then covered over with a light boa or dishin such a maner that the bees may get a the fool, but mothe able to run over or armad the hive under the cap.
J. H Himencex.

Jrrouln, Ont., Sept. Brd.

## Bees Swarming in August. <br> (To the EDitor.)

Sin,-This year has been a very peculiar ons with regard ts Beep Swarming., Very few of my bres swarmed in May or June, as the season was very poor, butin August those hives that rad swarmed in May, and some that hal not commenced as if it had been the proper season for swarming, and un il Augast 2 Sth they kept me busy hiving them And I now find that they hace gathered a large amount of honey. more thatu 1 everk , becs to gather in August. 1 should hke '1" nw the cause of rucir late swarming, atal... taey have done the same in other puts

> A. AOWBRIY.

Tuwnship of Moore

## Storticulture.

EDITOR-D. W. BEADLE, combenfuning arember of tife roy ll hur TICCLTUBAL SOCIETY, ENGIAND.

## A Dozen Choice Roses.

We believe that a large portion of our raral population are pretty well coavinced that to rear intelligent and refined families, that shall be an honor to themselves, and a blessing to mankind, they must not only cultivate those grains, and vegetables, and fruits that su:tain the body, but also must surround their homes with thase trees, shrubs, vines and flowers that mexister to man's æesthetic nature.
We think that one of the greatest favors those who seek to impart instraction upou rural subjects, can confer upon this class, is to present short and reliable lists of the most bardy, vigoroas, easily grown, and beautiful varieties, of the various species of trees and plants, in the ornamental depart. ment of horticulture. We know how it is with the inexperienced, when they make up their minds to ornament their grounds, and consult works on Landscape Gardening, or the catalogues of nurserymen and forists. They find so many kinds commended that they are at a loss to knuw what ones to select, and perhaps fail to order any, when perhaps if they knew of a half dozen or dozen of the very best of the different classes, they would procure and cultivate them.
This is no less true in the department of roses than in other departments. There are several bundred varietiee described in works on roses, and in nurserymen's catalogues, and the novice is utterly at a loes what ones to select.

To neet this want we some time since addressed notes to the leading nurserymen and florists of this city, asking them to name a dozen of the beat ha'dy rosen, easily grown, free-bloonisug sud representing as far as possible the difierent colors, shades, tints and merits. Wo believed tbat a dozen roses might be named, that would represent nearly every variety of merit in the rose, and that it auch a list could be presented to our readers, but few of them would deoline to avail themselver of the opportunity offered to procure 2 seloct list of rones

We extract the above from the American Rural IIome, and with thanks to the enter. prising conductor for this libor of love pro ceed to give in a mare condengui form the resalts.
He received seven lists froma as many nurseryonen of long experience, namiug in all forty-one varieties, and the rote standis,
Gen. Washington (the sufrages of all).....i Caroline de Sansal.
La Reine.

John Hopper
Victor Verdier
$\qquad$ Gen. Jecqueminot. $\qquad$
$\qquad$Anne de Diesbach
$\qquad$ Madame Alfred de Rougemont Triomphe de l'Exposition. Sydonic.
$\qquad$
$\qquad$Nadame Victor Verdier.
$\qquad$
Madame Plantier.
Perpotual White. $\qquad$

## A. Triomph de Grand Strawberry.

We clip from the Amcrican Rural Home the following comparison of the Wilson and Triomph strawberries as market berries. It will be noticed that the Triomph sells at much better prices in that market than the Wilson. We are not aware that the Triomph will command much more in our market than the Wilson.
We have a neighbor, Mr. Pillow, who irom long experience and cloce observation knows how to mise strawberries. His soil, which is a pretty heavy loam, approaching to clay, he makes rich with stable manure; and gives his plants good culture. He cultivates nearly equal areas of the two varieties, and generally has as good crops as are raised in this section, and sells them for the highest prices. We asked him for results, and received the following statements of his crops, last year and this.
In 1571, he raised on absut 300 square rods, 6,2S3 quarts of Triomphes, which he sold for $\$ 1,058.78$. On about two acres of Wilsons, he raised 10,500 quarts, which he sold for $\$ 1,039.76$.
We find by employing some arithmetical calculations upon the above, that the Triomphes yielded 3,353 quarts, or nearly 105 bushels to the acre; and that the receipts were $\$ 305.33$ per acre; and that they averaged sixteen cents eight mills per quart, or 8.0. 37 per bushel. We also find that the Wilsons yielded 5,250 quarts, or 104 bushels to the acee; and that the receipts were $\$ 520$ per acre, averaging uine cents nine mills per quart, or $\$ 3.19$ per bushel.
By comparing the results of the two varieties, we that an acre of Triomphes brought in $\$ 45.33$ more than an acre of Wilsons. Now the cost of planting and cultirating an acre of Triomphes could not have been any greater than that of an acre of Wilsons, while the cost of picking and marketing $5,2: 0$ quarts of Wilsons must have been conoiderable more than that of 3,353 quarts of Triomphes. Now, allowing the cost of picining to have been two cents per quart, and the cost of piching the excess of Wil. sons woult have been 537.94 , which, being miled to the eveess in reecipts, and we have a result of 803,20 in favor of an acre of triomphes.
This year the Triomphes yielded 2,202 guarts, or about $i 0$ bushols to the aore, and
the roceipts were $\$ 334.70$ per acre, averaging 151.5 cents per quart.

The Wilsons this year yielded about 2,666 quarts, or a little more than 83 lughels to the acre; and the reccipts for them were $\$ 278.35$ per acre, averaging $10 \$$ cents per quart.
By comparing results this year, we find that the recipts from an acre of Triomphes was $\$ 00.32$ more than from an acre of Wilsons.

Mr. Pillew cultivates his strawberries in rows, three feet apart, plants ten to twelve inches apart in the row, and keeps the runners cut off. Had some of them in beds of 3 rows, eighteen inches apart, 3 feet between the beds, but could see no great difference in the results.

## Hale's Early Peach.

Com.nenced to ripen at St. Catharines about the 20th of August. The trees were woll loaded with fruit, but it rotted very badly as it began to ripen, so that only a emall portion of the fruit came to maturity in a perfect condition.

## Fruit Acid

This receipt came originally from Switzerland. By it you may make drinks of amall fruits, especially raspberries, blackberries, stemmed currents, and seeded Morello cherries.
Dissolve ten ounces of tartaric acid in two quarts of cold water. In a large bowl put twelve quarts of berries, well looked over. Pour over them the acidulated water, and let the fruit stand thus undisturbed for fortyeight hours. Then have ready a flannel bag, through which let the juice drip without squeezing. When the bag is well drained, measure the juice. To oue pint of acid allow onepint of white sugar (cofiee sugar, however, No. A, will answer as well.) Allow the sugar and juice to remain together in a large jar until the former is thoroughly dissolved; then bottle. As a slight fermentation may ensue, do not cork at first, but tie the months of the bottles up tishtly with Swiss mus. lin or gauze, to stand for several weeks, until the danger is past. In six weeks you may safely bottle-you will find thatitnever spoils.
Such acid furnishes a refreshing bevemge during the hot monthe of summer, and would be found grateful to fover patients in any season. It has the adrantage of being ready at a moments warning, only needing to have your glass or pitcher ome-fifth part full of the acid, filling ap the remainder with cracked ice and purc water. Glass pitchers or carafes of these innocently cool. ing beverages set off a dinner table pleas. ingly in warm weather, especially as by adding lemonade you way have colors varying from pale straw to the rich garnet of bhackborry acid-the last named beiag. perhaps, the best in flavor of all. -Reral frome.

## Dr. Hub's New Gurculic Catcher.

At the meeting of the Alten Rorticultural Society which celobrated the national holr day by a meeting on $\mathrm{D}_{\mathrm{n}}$ Hull's premuses, we had an opportunity of mitnessing the operation of this new macbine, a patent for wheh has been already applied for The general thape of the frame is mueh the same as that of the wheelbarrow machine, illustrations of which have alrondy been published in the Camada Farmer, and in the transaction of the Illinois State Horticultural Society. But the new machine instead of belng mounted on a wheelbarrow, is suspended from the shoulders of a man standing in its centre. A slit afoot wide in the camrass before him enables him to carry the machine under and about a tree, when the sllt is covered by a strip of cotton eavily and quicsly, and the tree struck wi'h a oovered mallet or mau! The machine weighing only 8 to 10 pounds and the operation rapidy performed. Dr. Hull tells us he has been ab'e to go over 960 of his yourger trees, now three years plant. ed, in $3 \frac{1}{4}$ bours; which is at the rate of near. Iy 275 trees per hour. In this case the ground is clean and the trunks clear to a considerable height which facilitates rapidity of work; but (and this seems to ns a special advantage of this machine), alomost any troe. however low-headed, can be got ander and its insects caught.
We regard this aiter the:brief cxamination made as far in advance of any of the methods yet devised for catcbing the curculio. Combined with the Ransom process it ought to give at moderate expense almast entire ex. emption from the ravages of the insect. The wortan can, we think, be done more rapills, easily and thoroughly, than ever before; and will do more to get more persons engage il in "bay catching," than any inventere wat.d made-Preive Furmer.

## Destructive Insects.

At the late mettiag of the Mirhgen Pomulogical Society, Irof. A. .). Cook. of the Michigan Agricultaral Culege, in a lecture on destructive insects, treated of the canker worm and its ravages, and gave reasons why the subject of entomology should be studied by all. As the apple is the leating fruit in the State, he took up ifrst, its worst encmy, the coding muth, winich deposits an egg in each apple; the egs soon hatches into a larve, or apple worm. After it is fully grown, it crawls into a conceales place and undergoes another traneformation, spinning its cocoon. And about the time the apple 18 perfecting, it comes out and lays its egge. As they conceal themselves in zecret phaces. bands of hay or straw may be put ahout the tree and when the insoct secretes itchif in these, they may be taken off and barncl.

The fall webworms, or hlite mutia, that make their wels in the trees, may be destroy-
edby wiping off the websand destroying them. The borers do much damage to the tree in destroying its wigor and looks. There are the roundhead and the Hathead borers. They nay le destroyed by rumng a wre up anto the lure made by the msect.

The apple tree bark lice are very mjunons. An cary and effectuve remedy is to wash the tree carcfully every year with stromy somp. suds, just at the tme they hateh, and they will mothay eggs on treeswell wathed nom hept clean.
The cuncer woms may be prevented from duan harary athey are hept away from the tree, this may be done by tarmo the trecs.
The muxt in importance is the peach tree borer. 'Thmes they might be destroyed by hot water. The nanal method is to digawny the goil about the base ofthe body of the tree and put in fresh earth aiter destroying all the burers to be found. Soft-beried insect nay be destroyed by whale oil soap.
Insects injurious to grapes and plums were likewise spoken of, the remedy is to place something under the tree to eateh them, and then shake the trec. Methods for destroying tie catworm, or at least preventing its mavages, were delineated, but for the last two years they have not been heardof in this seetion, and it is hoped their absence is permanent.
The Professor stated some of the acivantages of laving a State entomologist, and thought it the daty of this association to see that a State entomologist eventually becomes one of the State officials as much so as the State geologist.—.Y. Y. Sun.

## Raspberries-Removing oh Canes.

It has been the pracice of our best sma! fruit culturnses to cutcut and remose the old canes from bearing plantations of razp berries and blaskberries. as soon as they are through bearing, not deaming that they were thereby imparing the vigour oi the plant. But last year Mr. Sereno Elwards Toll braached the theory, in the Joirnal oij Hurtrollow if we mistake not, that by so doing we are wakening cu: phata. Jis theory, if uar mem ry isgorrect, was something like thas-whle the canes are matur. ing their frat, and for some weens there. after. they contain considerable sap, which gramualy Hows downra-d into the ronts If the canes are remored before the say has presed cut of them, the roots are robbed of a portion of their nutriment, and conse. uently weakened
We admitthat the argument isnct without plausibility, but doart whether the nutri. ment saved to the plant would amount to mach. It would requare very careful experi ments, conducted for a berses of peara, to decide. On the other hard, it in much fazilitates clean calture to remove the cases when dine bearing, tont we think fruit culturists will be glow to change their yractics: -Raral Home.

## Raising Fruit in the Sbare.

 about sixty fect lnng, and threefeat apart, in the rows directly west from a $t$ po-atory building, and under the north side of a tight board fence, so that shey got zo san till aiternoon, and nit more than tro or three hours of any day ; and from that plantation we have picked two bushels in the season of I Red Aotwerps and Brincile's Oragge, that were the admination of our neighbore.

The fiaest Black.caps I ever ra:sed were directly under the north side of a high barn.

I have raised a full crop of strawherriesRussell's, in the same location, and thus lengthened out the strawbery senson, as they ripeoed a woels later than those that had the full benefit of the exin.-Frait Recorder.

## Newer Strawberries.

Enperor, healtby, fine plant. Fruit, "meaty" snd luscious; large dar's crimson. Yields equal to Jucunda, and sells for nearly as much. Green Prolific - this variety with us, and we believe with most planters, protes more proitable than Wilson"s. Froit large and fine when well fertilized. It's a good plan to have every third row of the Jucunda, which when mixed. with them, gives them a better color and sells them for good.round prices. The plants are so atrong and healthy, it certair ly yields equal to the Wilson's with us, and sells for botter prices. Charles Downing-the old Hovey Seodling over, only a better beartr-delicious and so large and unifurm in size Boydan's 30,80 nie and " meaty." The only farlt is in not ripening evenly. Similar in this respect to tha Russell. Fentucky - ab ! here's the sort for lateness-a magnificent fruis too. So even in size, of such a beautiful searlet It paid us well this year, for whea we were pioking largely from them, most other sarts were gone, and prises had gone un, so that we sold all readily fromtwelve to iftenen cends right at home * * A few kerds as to some other sorts:-tha Colonel Cbens is a magnifisent sort; very productive and so large and of such a beautiful bright color, asd of such luscions quality too. The plant resembles the Wilson's Albany very mach, being equally as robust and hardy, and as prolife thas far with us - Fruit Recorider

## Winter Killing of Apple Trees.

J. Allta, of Belmont Tp., Warren Co., writes the lowa Homesteal, that the best way to prevent apple trefs from winter-killing is to select some sariety that is known to be hardy-plant the trees, and after nae year's growith bud them with auch varieties as are desired-as it is the body and not the limbs that winter kill. That if ' yon get a hardy trank, you may eafely bud fia the ton with teader rarictics.

## New Geraniums at the Chilwell Nurseries.

It wuald be infossible fully to describe all the revest surts of Mr. Pearsou's Geraniame, but 1 will try to gave a rough sketch of sone of the leading varietits $!$ will take them in them exparate shars, and :rras b) gin with Picks. î reveril ytars he has devoted sperial attentiou' to this elass of colours, ad his laboars have been crowned with great enceese. A wrich, perhaps, pos. sesfer the deepect shade of blue of any Geranium yet in cultiration. It is a good bedding variety, of the style and babit of Christine, with plain leaves; the truss compact, with a deep blec.tinted rose colour and is likely to take the lead in this class of Geraniums. Rose Erucucuclinc is a valuable variety by its profasion of lovely rosy pink-coloured flowers; the habit ot the plant is compact and and free-flowering, with imnense large trasses, ania very good Howir. Jo, Peck is a deep glowing piak, dwarf habit, lighbly attractive flower, a most interesting variety
 with a bright centre, immense trase, the $i_{\text {indiridual }}$ Howers very large; habit good. ifrs. Love. a beantifal dwari habit, halfNosegay, with a womberfiel good tras: it will prove a val astee wemang variety from its cooupat indit of growth, and its prefusion of rich towers. A beid of it in the trial grounds proved its adaptarility for flowergarden parposes. Fibr:nef Durund is a rosy pink with a deep shade of purple. I have it in bloom in tre conaervatory, and it stanis pre-eminent as an :n-door plant: its great substance of patal and its freedion of bloom make it equally as grod for out-door embel. lishment. M/rs. F. Burnuly produces fine large, round trasses the ilowers perfect in form and abarge, a pretty sbade of pink, with a good compact habit; a most effective pot plant. A ut $R$ 分 $\omega^{\prime \prime}$, dark piak, merging into rose ; fine babit and truss. Hon. Arrs. El-n is a ; jum, wich plain leaves, holf-Nosegay, Huwers pink sinded with volet, dwarf and compant: a ìrat-ciass bedding variety.

The foreguing include most of the pinks already gent out, and coming to the Soaraet add Criysus Scarlit, we have some wonderful productions. The most conspicuuas and best in all respests among the acnrlets, the m ist usetul either as a congervatory plant or $f$,r the embellishment of the flower grader. is Curscii. It is a rich scarlet of perfect form, is so proluic in bloom, so fine in habit, zubstance, and truss, and s? wonderfully good in all respeets, that Lord Derby and all others of that elass are completely patin the bachground. Mis. Iretley is a fine buld scarlet, witia a verg large trass, and ' answers well oat of dours. It is marked in my note-book as one of the beyt. Chatnaler; Se.a belonas to the aune class of colour tbough , more dwarf is haint I thing it w.uld prove useful for out-loor decoration. Lorl Bulper, dars scarlet seaded with crimson, very large
truss; one of the best for bedding. Miss Stubbs, Mrs. Sibray, and Miss Sauders, are all dark crimson flowers, with bold trusses, and good habit. Thomas Adams in a fine shaped flower, red shaded with salmon; also Chatles Burieur, much in the same way, onls a deeper red. Col. Mahlenisa rich roug cramson, of faultless shape, good int substance, trues, and habit. Ruc. $T \quad F$. Fi.ut, Mhecy Fiouri, S.,medou, and Sumuel Bennetl, have rish deep crimson fl .wers, and the trusses are very larg" and well-sheped. 1/ro. Howe is a'so a useful introduction with deep magenta Howers, of the habit oi Violet Bill Nosegar. Then come three other varieties of the Violet Hill type, Mro. Fincens Finn, $\operatorname{lit}_{4}$ D Ducti, and Shakralearo. These are likely to prove the most useful of all for bedding purposes: they have the habit and freedom of bloom of Violet Hill, with a deeper dash of scarles in their flowers. Violet Hill Nosigay, though one of the very best of allbedding Geraniums, looks pale and washy and meagre by the side of the three lastnamed gor:s.
Among the Golore Tricolnrs I shall mention Mrs. Dockey as one of the brightest and most atrractive I ever saw. Lauly Monner was also good, the colours so bright and pure biw. Patcel ernwing near to it locied ponr and meav. Widiem semlis $\pm$ one ai Mr. Prarson's best Tricolors. A clergyman who had visited the Chilwell Nurserses, wrote to me from the north of England a short tims since that he considered is the most perfect Tricolor he ever sax. I nad it growing in a pit during the spring nontha, mixed up, with other stmilar soris, and it mas always pieked ont as the best Tricoior re had even by the minitiated. There were others in this class all good and superior sorts, swch as Abram Dass, Miss Lovier, and Monsieur Durand, bat the above 1 considered the bet.

Coming to the Silver Variegated section, I may mention as an old favourite one called Padel; it has a broad pure white leai margia, with a dark zone, the flowers a protty shade of pink. which contrast most beautifully with the folisge. While on the Silver-edged section I may mention three gems that Mr. Pearson showed me that will not be sent out for some time-Mrrs. Bishop, AIro. William Mulis.s, and Miss Minna Hollins. They are the most perfect and free from fault of anything I cuer saw, and there is auch 2 sweetness and softness in the flowers, and such chasteness in the foliage, that the flowers and and foliage contribute to each other's beanty. Mrs. Bishop had lilac pink flowers, and those of Miss Mina Hollins sofs delicate pink.
I mangt now return to a few Zonals that will be sent out next season. Some of them were pianted oat in the trial-grounds in a mass, su that there was every chance of testiidg them buth for out-door and in-door purposes. Ruinta May was excellent in the open garden; it had a fine boldtruss. Coniessa Quct. rto was bright and beautiful, with dark piuk
 Miles were also very gosd, with tine pink Hower-trusses. Mutilht aystred une of the best as a conservatory plaut. Inutued on a small plaut in a small jut serta br eyght trusses of imuense si/e i.in. .t. an*s was darker than some in this sectisa; bat Jirs. Ifusto is was the finest and the bersof thisclass of teraniums. I was curnous encragb to mar. sure one truss, which uas nearly seren wohes
 however, were also aithwita fanl: : 1 iot trusses fine bat not sularge as Nirs Muxt...s.
The above list of feras:ams consw of varieties of sterling merit, as i iar starion to many popular well kn, win hintis. any of those sent out we have growing in oar win houses. And without exaggeration can testify to treir superior qualities.-Q. Rrad In Colthy, Gavdene:

## Time to Plant Frait Trese

 en into consideration in A. tel...n.e.s which is the better time ior phame.ng ir..it trees, Spring or Fall. If the soin isligat and moterately lry, and the lo al.ty is in too far North, trees may be safely yhase? in the i.ul, provided they are e. the most hardy kind, acia as apples, peas and sinams; but taking all things into considenation, we prefer early Spring to Autamn. But the trees should always be dug up in Autumn, and transported to the place where they are to be olanted, and then carcfully beeled in. In hecling.in, the roots should be sorered quite deep, so that at least a foot or more of the stems will be covered.
If there is any danger of tie stwas or branches being injured by cold, shade them with branches oi evergreens; or old coffee sacks may be used for the same parpose. Hay or straw might be used if it did net offer an attractive retreat for mice; but almost anything that will partially share :he branches during the Winter and not proveut rain and snow reaching them, will a:aswer.
The principal objection to barying the trees entire in the soil is that the buds are often injured during thaws in Winter, or perhaps hofore they are taken out in Spring. If one could be certain that the soil would remain frozen from the time the trees were burieduntil within a few daysbefroe they were taken out in Spring, then we. would prefer this system of preservation to any other; but we are not, hence it is not always safe in every locality.
The resson why we prater to uave ail deciduous trees that are to be trasipaiatel in Spring, dug up in Autumn, is t. : Allow plenty of time for wounds on the ruots to heal preparatory to producing new ronthet.. This healing process will proved quice rapidly, even in cold weather, ii the roots aro buried sufficiently deen.-R. A -itlo York

## Chinese Yams. <br> Cats an Fruit and Seed Protectors.

Norwicalible,
Ostanio, Gend Aug., 1872
To the Eititor.

Sir,-Being desirons of experimenting in the cultivation of chines' Yiturs, I slaould be mach obliged by your informing me whers 1 cin procise the seed, or any other inforian t.on upon the subject which jou may constider useful.
Sou may answer in the cohnums of "Wechly (rote."

Tours respectiully,
F. A. DEEKECS

Some gears ago Win. R. Prince, of Flushin!, Long Island, N. Y., took a great deal of pains to advertine, aud, if possible, sell the Dreurea babatas or Chinese Yam. In 1857 cuaniderable attention was pa d to this aew tuticr. Doctor C. T. Jueksun. of Boston, made a curcinl amulysis oi it, and reported that it contained

aul that the Mercer Potat., exammed at the same tixue, contained

| Watar .. .......... .. ..... 75.S0 per ceut.Starch ..... ........ . . 12.54 .Cellulose... ....... ... . 3.62 " |  |
| :---: | :---: |
|  |  |
|  |  |

tins showing that this variety of potato yielded more starch and less water thun the Clinese Yam.
In February, 185s, it was reported in the hulletin of the Society of acelimatation of France as yielding four per cent. less of starch than the potato, but it wasalso stated to stand cold far better.
The late Judge Earrison, of Coronto, cultirated itin his garden and esteemed it highly. As late as March, 1569, Mr. Chas. Downing, of Newburgh, N. Y., wrote oi this Yam, ․ It - is still free from disease, perfectly hardy, - remaining in the ground during winter. .. very productive, and to my taste. equal, if " not superior, to every potato I have seen. $\cdots$ I find the guality of those of three years - growth, much better than those of one and . $t$ two years, and at this age they often weigh "sight, ten. and twelve pounds cach."
oi late very little attention has been paid to the cultivation of this Yam, and wo have not seen any paffs or advertisoments. There is, no doubt, but that it is less cultivatod than its real merits deserve. We can only suggest to our correppondent to address a letter to Parsons \& Co., Flushing, N. Y., who might be able either to mpply him themuelven or put him in the way of pro. curing the tubers.

A Late Strinterry. -The Kentucky is rapidly gaining favour as a it Stranb-rry It is a very strong, whorous plant-fising productive, of good sias, lright coluar, hold. ng out eight or ten days after other kiads are gone. - Rieral IFome.

A corresponilent of Land ame Hatrer writes -"It often appears to me that peopie for the most part are not aware of the great use ata ate to its. Of course, we know of their use with relpect to mien and rats, lut to we $s$ serally haw of the inwiuation help they ean give us in protecting irm bids our garden finits and howers?

Toked off the hiris how simple, how certain, how small is the cest of a cat on a small ehain sliding on a wre, and giving the animal the walk upand down the whole length of the strawherry beds. A knot at each end of the wire reulily prevents thecat from twistmg round the post which supports the wire, and a smanl hemel phaced in the midule of the walk afords her shelter and a hume for her bittray In large gardens a second cat is requitec, and theyouns, ones inthirirequent visits th eveh otier oreatly assiot in suaring away the hirds. I hase formore that thinty ymar 1 ". 1 , and ser $n$ weed with purfuct suc. cesa, this cisy mothon of protections fruit, and the wry ame plan is cifually $s^{\text {sond }}$ in
 After tha find form hay watait ho way diblke this fintir' mataint, and whea sut yuite free, after a icw week' watchin ${ }_{\varnothing}$, they sill of their owa avern continue on ytarl. The kittens more especially attach thems 1 -ve to this garlen oseupation, and of their owa accord becone the gardener's best allies"

## New Canadian Cherries.

Our long time friend, Mr. James Doagall, of Windsor, Ontario, has been raizing some new scedling cherries. We have not enjoyed the privilege of seeing them, bat clip the following aecount of one of them, writtea by F R. Elliott, of Cleveland, Oho. Doubtless samples have beca sent by Mr. Dougall to the Presitient of the Ontario Frust Growers' Association for examination by the Cuamittee on seeding fruit. aud that m due time we shall be favoured with their report.
"No. 1 is a large, liver-whonel frut, almost an exz.t fa: simile vi Eihhora. It is evidently a profuse barer, as the spurs have from eight to fourteen fruit attached. It occasionally is in triplets, but, as a rule, in doublets. As we have sail, in appear: ance this cherry resembles the Elkhorn, but in its flesh-which is extremely firm and of a deep.fesh colour-it is entirely distiuct. aud more neariy resembles the Gridley than any varicty with which we are acquainted. Apparently this must and will be a popular marnct cherry.

## Effecrof the Prifume of Flowers-The

presence of the perfituce oin a cucer mathe arr incerases the power of atsurption of heat sixty times, and aniseed 372 times ; bence the perfume atising from 2 bed of flowers int creases the temperature of the air arutail them.

## Cor:espondence.

## Farme: Wives and Danghters.

> (ris the lidton.)

Stle, - Ha rad withinterst the letters in the Cinumi. Ammer on Finmer's wines ani daughters, Ithought if you would allow me a short space in your columns I would like to say a little on the subject I was particuharly pleased with Mand Melville's letter. I quite agree with her when she says that farmers are the most independent class of persons in the world ; and I would add that farming is the most cmobling and dignified ocenpation, and the most beneficial both to body and mind. But it is about their wives and daughters that I wish particulanly to sueas at present.
1 amafance's dacihter 1 am happy to atate, and would not ai I could evchange my postiun with that or my caty consms, who holl their hads so proudy; and look so mnucentiy in anvilide arection when we chance to muct at the same thas, perhays, them pin fathets are hatassed with delbta and bankrupt courts, and strugghing to leep up an appearance. and just because I am grilty of being the daughter of a famer and living in the chautry. A great many seem to think that fa:mers wives and daughters have no time or inclination for anything but working from morving till night, but I wouk inform all sulh that they are greatly nus. taken. that $i$, , judging from this part of the country. It is true the time has been when it was too much the case, and there are atill many who are obliged to do much more than they should do. But that time is fast passing away. It is an age of invention and progress, and so many labour-saving machmes have been brought into use, that farm life is not the druigery it once was. Refinement and intchigence are making raph advance. ment throughout the land, and is no where more clearly seen than in the farmer's home. Yet Ido not mean to say that to bercined and intelligent we must be ignorant of houschold aflairs; on the contrary, I consider a thorough knowledge of domestic duties to be a most important branch of ienale education.
As the principal part of our work in done in the morning we generally liave the most of the afternoon to devote to fancy work. music, reading, making or receiving visits, playing croquet, or anything else we choose. And then there are our pic-nica and entertainments of various kinds occasionally, so that there is no rearon wily we should not enjoy ourselves just as well in the country as amy wher phace.

Of cultse we enjoy vinsclves none the less in the paluur (even if one hands are not $4^{\text {fith }}$ su deltuate) fue havmg hast performed the duties of the kitchen.
1 thank with Maud Melvithe that the edufation of fasues' duughters in the higher
branches has been too much neglected, but our common school system is so much im. proved that this deficiency is now in a great measure supplied. A good English education may now be obtained at almonst any enuntry school. Nevertheless there are many advantages in tuwis and citas, which we do not enjoy, bat thoue that wr have are lettur improved.
As regards dress, it is my opinion that farmers dauhyters have as elegant and refined taste as their city friemls, and take as much ${ }^{\text {phensure in }}$ being well dressed; yet they do not make it the most absorling subject of their thoughts and attention, nor do they feef under any obligation to follow the dictates of faghion any farther timn their mod. esty and good sense will allow.
Of course there are exceptions to this as well as every thing else, but I do not think it right to judge the whole by a few.
If you were to trip through the comantry I think you would see as many tasty and happy bomes among the farmers as any where else. Although there may not be so much style, yet there will be true refinement.
I think I may safely say, that the time is not very far distant when their real position will be recognised by all classes of society

JESSIE.

## Orr Canadian Homestead̃.

## To the Ellitor

Having occasion, not long since, to pass through a vocsiderable part of one of the neighboaring states, I was careful to mark the contrast which its appearence presented, in agricultural features, to that of Canada, and $I$ am satisfied 1 saw oothing in the lay of the country or appearance of the crops which would lead me to desire a change and rank myself in the list of American, rather than Canadian farmers. But whllst believing that here in Ontario, we stand on even footing with our cousins across the line, in natural adrantages yet I am free to confess, that in oue point they lead the van; and to that point I wish to draw the attention of our farmers: the appearance of their houses in contrast with ours is rather striking. They are not generally the sabstantial structures which we have in this part of Ontario, but their design and especially finish-which when frame is frequently nothing more than a coat of white paint and green shutters gives them a most pleasing and inviting appearancé.

Whit is the cause of this difference between our houses and theirs, we naturally ask. Are their recources greater? We answer no ; but they have acguired a little taste, at least, this seems to the writer the most reasonable way of accounting for it, and what further leads to the ignoring of Capitas], and that credit may be given to whom it is due 1 found that, almost without ex. eption, our outbuildinga, barns, \&c, are superior to theirs.

The following reflection I believe is just, if they had them over there, they would paint them.
It is almost incredible what a grace a little taste in the arrangement, surroundings and finish of the farm homesteal gives, not alone to the farm, but to the whole landscape
For those that have been crectel 15 or 20 years ago, a due allowance will of course be made, but who has not sighed as he passed ! houses of much later date. the desiga of which, we might reaconably infer, was taken from some of those old disthleries which hare and there are yet to be geen the relics of bygone days. A few trees rould do much to ! break the dul! appesrance, but, alas, they have long since been cut doun, and the owner believes as little in planting more, as in using the brush to barn or house.
Why so many instances of carelesa indifference to the appearance of "home"? To kuppose it is through fear of affecting the pocket or the muscles, would be uncharitable, as I believe, in most canes, it is false. I sacribe it therefore to the fact that taute bas not enough eutered into our education, and that from year to year we go on sowing and reaping, filling the bank with the golden fruit of our toil entirely forgetful of the ap. pearance of our homes
Wenoght to think of thia more in t?e future remioded that other ejes tielulth wur hocues. and atrangers form an opinion of our count $y$ and its inhabitants from these externals, and in the end we sball find thatlabour bestowed and money expended in this direction has realized more than its value

A FARMER'S SO:

## Dumfries.

> Early Joe Apple.
> (To the Ellitor.)

Sir,-I wieh to call the attention of your numerous readers to the excellent qualities of the Early Joe Apple. In my opinion we do not possess another summer dessert apple that can at all compare with it in flavor We have been enjoying the fruit in my family for the past fortnight, and to-day, September second, as the last are gathered, only regrets are felt that they are so nearly gone. It is a great pity that it has not been more widely dissemminated, and its most excellent flavor more gencrally known. $W_{h+n}$,oung the tree is a slow grower, and nurserymen have been at no pains to sound its praisesmes it deserves, because there was no profit in raisiog the tree at ordinary price Yet I am eure that were fruit raiters aware of its excellence, they woold not hesitate to pay twice the price of ordinary apple trees to obtain it. In Beadle's Canadian Gardener it is stated that the tree seems to be nearly if not quite as bardy as the Red Astrachan, and: this be so there can be no ditficulty in the way of its being grown in nearly every fruit garden in Ontario.
My tree commenced to bear very young,
and has continued to yield good crops of fair, medium sized fruit. The apples have a very handzome appearance, qu te rell on the aide exposed to the sun, and on the shaded side very prettily sireaked with red on a light yellow ground. The skin is sprinkled all over with light dots which usuaily increase in number towards te e eye The flesh has a rich yellow tint, is very teader, breaking, five graned, juicy, and of a most agreeable somewhat spicy vinous flavor,-quality the very best. Every one who enjoys such a fan:-. ought not to be without at least one tree oi the Early 500

## Answers to Correspondents.

## A Scbscrimer, Oghawa.

We have not space to enter into a full scientitic explanation of the uature of electricity as developed in a thunderstorm.
Electreity is supposed to be wi the unture of a fluid, which thaid is divided into two kinds, usually called pooitre and neyative. These tro have this pecuiarity, that whea positive electricity meets positive their mutual action"is repellant, and the same when negative meets negative; but when the opposite kinds meet their action is attractive, aud so strougly are they attracted, that very rapl aud powerful combustion is the effect.
Now, when civadis surcharged with opposite electricity come within a certain distance of one another, the electric current leaves the one to combine with that of the other with great foree, their combination canses combustion as seen in the flash, and t the wond of which is heard in the thumer.

The same takes place when a cloud surcharged with one kind of electricity comes near the earth-the earth here taking the place of the gother cloud.

Now it is a well-known fact that electricity always gathes lonards a point, and will escape from a point sooner than from an object with a broad surface; for instance, if the knuciles of one hand and the point of a finger be approached to the glass of an electric machine, where electricity is gathered on the glass, the electricity, of an opposite kind or pole, will fly from the person's body out of the finger before it will leave through the knuckles of the closed fist.
The lightning conductor then as a point takes the place of the finger. The electricity contained in the earth will fly to mect the opposite electricity in the clouds from the point of the conductor which is connected with the earth and isolated from the building, sooner than from the points of the building itself.
If the conductor is not there, pointing upwards to the'clouds, there are great chances in favour of the clectricity leaving through the barn, and such an event would cause such a shock of combustion to the barn as in all probability to destroy it, and very passibly to set it on fire.

## Red River Grasshoppers.

## (\%o the Lifitor)

in lased herewith I hand you specimens inst received femm a hiohle intelligent cor:cspondent at low: (arry (by mail) of the dreader pest if that ine cuthutis-they ase apparenily mate and fembe, the latter being sath of egegs. I sent at the same tume at spe cimen of what me conesponde:at appara to think is an egeg of the Gravshoppers, but which I rather suspect th be amething che - viz. cither some insert belmging to the pairie in its magat state-m whernisepossibly the parasite which is kwown to athect the (iraselopper and by which mature keeps then in cheek from baing an entire and wasuming' iest.
My wespenmatent atates that the Giaso hoppers have appeared in ond mumbers the year and with cert un sisan, well kuomn to the old inhabitunts, whach assure them that next scaswn the pent all st dovastate the comater that it wall bentirn meeless to






 mons: Prame bu ! -4, that all farmere wonth in the mane will tahe

 tion in what anmer that the stoceding twop wal ahost amonot an a domine e.o.
 Praric times which acompanied the inseets athl whinh ew it show, itw thower stem will


In yrar mones of these movets please state their !reper natues and designations, nai
 sinphes os Red heser duter form these which an sone years afteet ond awn mamine latro,
 erifects.

## vecils.


 wamanaiou bolows the terrible and jusily a walet soouron of the Western
 r.mes : wo. remonels very much one of the common s.a., wns inm! in nur fichls and gavkus here, bu: doser in :- $\cdot$ !in: ceveals the fact that the -levas'ator of the wost is proviled with much longe: wings that mable it to fly from one bosalisy to another in vast swarms. It is a sad diawbek to wor srleudid lied hiver connty that i- slombil be thas affected by thin diostensive pest. bit we trust that nir cowc:ondent: mears for next seasmits ewo are much exaggerated. There atomers t, be bo weson for apmelead-


Ontario ; it las not ieen kuown to advaze further in this diecten thau the butes of Kamsas. Nelnmska.low a, Mitssuuri, Minaezoto. and the lroo inee of at tan biba low chief hame is the region lectucen the gissomat inver ant the hucks Nountains, besemi which sw.ums
 th the Euxt, but mot matare 'ine oippet taken to: an exs of thes Giasohnpuer is the pata on at ty or small moth: we camat tell wheh uath it hatches out it anay possibis fie whe in the prasites of the hasessiopper. The grast, of whith we sta an arsamance daring a recent vist to lowa, we ar. mable to describe sticntilically, knownos but very httle of the classiliuatem and homenciatare of ros.all.

## Hoeing when the Le F is On .

## (\%othr Lidtor.)

Sth, -Rcaling a prece in your paper about hoeng while the dew was on, I hoed part of my cablage-bed in time aternoon and the amadialer carly in the matans.

The fant beed caly kent que datal. wht the wen treot emsidersth;
 ius.

 Lou's':uly,



## The Comidh <br> farare



 Ham!t: was we, gut ivato wat xit pas.
 who cruhice! tae gronds aiti assuredy have leatned by therrateendat:e the le sou that agriculture, as a sci-ntidic proi ssion: is o.se whish, to be cursied to its hisinest point of exellence, requires math attent'on, wacia enteririse, duduo fittle armini-tra-ive powar

Tu rais: a chast of animals, so suapeior to the uswal stock of the country, ats those exbibitel at H tmilton, reguires mamment of time, moncy and enterprize, lictle concciver by thowe outside the ring of ous Ereeders.

Inmense credit is due to those few mon who, introlucing the best of anock into the country, have done 80 much to maise our cat. tle, shecp and swine higis in mot of excellance above the same clasess as karom in C'anaila suy tuctily years agn.
We consider the Exhibit:on just closel. is every department, agreat inprovemane upou those which lavegone bei we I: there were not as many animals exininted as the entrics entitled ths to expect, the ounalty of such as were on the ground to oar min:?
there might have neen in quatity. The writer has bece is auverui of he Roya! Showa
 irudactiva, tha dang of th- herters, ghort-
 petition at au, sin a ta fitext Bretain, the stroughoh "" :hannaghber stock The seeds, rocts. : .thines ani finit formed a most excran: hotho. Thu show of frat was partheularly worty of antice ior quantity. and eqpecally in its great variety. A visitor to the fruit siked in Easailton could not but no: ice not ouly the quality of our tiner fruits, bat tie various parts of the conutry from wheh the dieplay was drawn. There were apples from all parts, and there we saw orajes from cvery section, from down cast, from the nurthern parts aboat Goderich, and trom our frut growng section yar excellence, the peninsmha between Lakes Erie and Ontario. There was au excellent display of Masbinery, and every one must havenoticed the immende number and variety of laboura avay wat :nery phabited on the froums. 4. ith ti: p.om-nt searity of Sam help and

 oriot ce the reguranent for hato. Uar







 tage sted arte les as are ironght by our large agrouitarai motement masions We regard it whighly desirable that thete sitush he a spertal exhidetion getace $\mathfrak{i n e l}$ ans wo or after the promactal.) of manatures, huse arts Rec., thus grvily to tide pablio anii to those part:culari, iaterestua :m opportana:y ot oxama.rg at leisu 2 , atal thar aghiy, :ite vaious arateres samwa th thas ciass.

## Euergy and antivisy wa ride Farm.


 wid tion to talle with ann a tive, en rgetic, Bustated wan! enqecially it be dom le.n suc. vesofic, -wahult thas additiou, hats precepta (b) nut uishe the savae impremion; Farmera oaturally-houn thair iwhiared poution, bave a greut tendency to "run duwn" in
 ouch $k$ ses .o, ose conum for thu may; be, anil probably is, that too nuch bodily esertion produc a a materal staguation of the auind; Bat w: : all have arauy tizes iflt, huw sinl'sed up' we bave been by listaind to we.ers nucceas, an.i heariug th:ut recount their diticulaies, and brw they overcame then, aud when we set tise energetic tice of ancecsg and detemination hisace fione their cysa, we at oste are inapressed with curozn shors comiazs, andi wanc of activity. Thla is especialy gnd ior Sarmers to fuel, sud is a
most a.t'lutiry dose of "tonic': medicine. But while hasening to these recitals ne must not forget that a few minuters will serve to recount the hicis of yars. and is plesuinyly orcitina : - But ber uy to attain the same position. 'Y thesme meane, these jrars of activity trials, asidenerjr must be steallily gone thl $u_{s} h$.

Bat the rewarl in future is sure, sucres, is all but certain and the comfort during the process as immense. The'vely determmation and "nesre" that the process naturally puts into of inan lightens four-fold the trisle attending the em; whereas were it otherwise, and if weallowed a low desponding frame oi mund to usurp one energy, our labour is ever hopeless our spirits low, and the future hori\%on dark and sunless.

Mucb therefore may be gained hy any one in talks with driving, successful businens men, and these talke soon show us how much more other people are atteudiug to their buainem matters than we are. and moreover a conen coel repetition of this surt of thing is very m....ssary, as quite naturally irereasing age, and probahly decternoly ahilaty and ztrenden. lexd us smexhe it wion st ith ant incolers.

## The Diversion of Immigration

The biobe of the loth ult. diew athention to the aut that a party of Eughsh farmers propos: i to settle in Mianesota, expressing regret ar the same time that these desirable amigrats have not been properly informed of the :rivantages offered by Lanada. We sope coun yet that the pionecrs of the party Jay it fine to recommend their friends to isise un dand under a foreign thas, one of the couditens of which step must le the saciifice of their nationality.
The Si Paul Daily Piesx of smmey last states:-The party of gentlemen sent to Minvesuta to find farms, and a place to locate a eolony, which they design calling New Yeovil, after the leoril district from which many of the colonists will come, arrived in St. Paul a few days a:of, and, with Hermon Trott, Esq., 'the Land Commiss'oner of the St. Paul and Pacific Railroml, took a directions car and passed over that road to spy oas the ground prepazatory ta locating. if the aspection was satisfuctory. This purty $3:$ eally a committee sent out in advance, :eprésenting about 1,000 persons, who dosire to cugage in the enterprise. The Rev. Dr. Rudgers is at present at the heal of the party, and his desie is to form a colony of high religious character. Lhey proceeded with Sis. Trote to Brechearidye, and cx. pressel shemselves highly pleazel with the counirg. aving that they ha:l supposed tat the Anerican people wow accutomed to
 in a h.ig:sy colored way, which would not bear an ampredjudiced compmisen with facts: but they were convineed that the
deocriptions they had read of Minuesuta fell short of the reality. stopmong over ught at bibekenridge, the wae taken in teant the wext morning to (ilymom. 'rom whioh phate they with b.that wer the Northon lacher , and cone to st. traul. Mr. Trott roturned dirent and wav in the city gectorday. He broached to the members of the party has pinn, as published in the Piexsa few weeks age, for selling large farms wholly on credit for three years, and they wete very favoumbly impressed with it. They are nearly all practical farmers, and well pualitied to judge of the properties of the soil, and the prospects of success, and were better pleased with the strong rich land in the veinity of Breckenrilge than any other lamd they had seen. They are all men of some means. They desire to oltain large tracts of land, a greater part of them for the purpose of raising wheat, but some, with the real English love of good stock, desire to engare in stock rais:ng -a manch of farming which is gaining in tavour in the State. Should they locate here. is there now seems to be little doubt that they will, it is probable that a 1 umber of the younger sons of the landed gantry of lingiand will accompany them, probably turning therr attention to stock, chietly with the idea oi gaining here estates, which the laws of entail prevent them from acriming in the when entatry. some of the perte nom here ate in haste to retum, ar hey have fams rented, the lease of which will som expire, and they must be there cither to relinguish or contmue them. A few mechanes were in the party, and they showed their phesteal sense by entering immediately into. An.e iean worshops in oder to aceprive the Ameriean ways of dong thing. 'This colony will he seatily welcomed, showid it come. for of olch are many of the mont thriving and the :ast citisens of the Linitel states.

## A Month's Emigration from Liverpcol

On Friday the Liverpool Emizratin $C$ m missioners made ap their returns of the $\cdot$.mi gration irom that port for fuly fls: on sels salling under the Aut we o: - fin eh. United vi, tev : 11 thiar with 142 rathin and
 hips, $2: 5$ cahia and 1901 noorage : Vins: inatia, 4 abipe, with 138 cabio. in' :32

 53 sahin and 2.5 stereagr making a curat or 16,213 yassengers, ot whoin 8,05 were biag lish, 25 IS:nt.ch. 1693 !riah and 557 mornigneen
 ariying 731 prast hesers mok us th on ors

 the wex. as compared with the san "p in ind


Mir: Wur. Loms of letaing hats lately brought out four stallivas, of t\%, bers durt lineohnative or Sorfolk 'r.,

## ghgriaultural gintslligerre.

## Provincial Exhibition.

W!acn the thonsauds in Hamiton interest+i in the success $0_{1}$ the Wabibition opeued their eyts this morning, they were delighted to see Uld Sol smiling by progressing through shy tlecked by ecarce a cloud. Hopes aro now entertained that the weather will re. main tine during the weck, and if it do, the attencance at this show will no doubt be even greater than it was on the occasion of the visit of the L'iuce of Wales to this city in 1560. Sinco that time the facilitien for getting to Bamilton from all parts of the Province have greatly increasec, and although we shall not, on this occasion, have the great adilitional attraction to the show of a Piluce of the blood royal amozigstus, we are to be honoured with a visit from a very pop. ular repicseutative of royalty, our new Gov-ernor-General, and may, therefore, expect many thousands of persons to visit the jeity who u ould not come to see the Exhibition alone Alrealy immer su crowils are comwen ing to arrive, cvery train that has cone in this moming, coussting of as many cars filled t, their utmost capacity as the locomotive could crag after it at anything like a ratasomble zate of spech.

A few artieley fur exhibition arrived as late as 10 o'clock this moraing ; neverthetess every department of th-- shone was in such pood orider liy fieven cichor. that the jucles's were ablie io, omis enn" their duties nuly an hour iater thais the thate st: aown iot the propramme. i. i- liergently rewark.


 sa), how ise that nole is ar, ene who has visited the l'rovinc'al Finhabitoms ecgularly for seneral jcars past who would not be able tr discover mar mov-ltins in ini-. The pres,ntshow is an x xechl nt foce ta every
 the lage numbe on entanamale for it have be en tulys ralized
During the ras about s, 600 peronis viated he tiystal Palace and jomame, and by arow the whir o. maclin ery the sifick of sewing aud linitting mychues, und the milo lions, stanha, proce dang from :he musical instrun ent cinutueet, trald of d:e xhibiti $n$ heing in fall thast. buth inside of "he groun!s and ont, tiv: vendors of refreshuent urere 'Ioing such a business as




 it toe lusinesv of a gomil 8 zed village ior she same leisth on mice rued.eas oi rine wercioduline wers indurati in the glow-
 -ult ial tone chich an+ in a to lie qeauliar to a najo is: : 1 lice samsll siun men who ato always it be iound present on an ociasion like this, to enter their ter.ta for the purpose it teng a uazer an i delighted at ti:c i..tell. cta lify of the pig that con yldy cavis, the - rale ful bos :anstrictor lirge enos:! to vall w a 1 ulfab. out the hrout $\cdot \cos ^{\prime}$ ac. rmp ished and intelligent fa la!y of


 trai" at smashing ".Junt Sallie"s" s se by shyiug sticks at it and uns a fox are led to invest a quarter in a viai ố mer i inc which if then w rds of the selier are to h.. la lit vad

vation of human life and for the
removal of all tlealy ills removal of all theshly ills as Don
Quixote believed the famons liniment which lie made uee of on a certain occasion to be. Others are led to pay twenty tivo cents per box for pens worth about ten rents, per box, their ohyect beirg to haw, if possible, one of the prizes which the venilir of the pens assures his custoners are contanaed inalarge proportionot the boxes with the pens.

Among the visiturs present to day at th. show were Professor Lawson ant Mestra Northrup and Brown, of Nowa Scotia, whe camo here for the purpose of pur hasugg live stock for the Agricultural Aeson ation of that Province, of which they are members. Mr. James Uhite, the President of the Outario Association, also arrved to day.
For the convenience of evhintors and the public generilly, an oflice bas been opened on the ground for the recenpt and delivery of letters and telegrams transmitted over the Fires of the Montreal Telegraph Company The post-otice butiness is under the care of Mr. James ©incion, and that of the thlegraf $h$ company is managed ly Mr Mi Wel-h

## HORSES.

There is a marked increanc in the gumber of entries overthose of last year, and atso over any previous Provincial Exhbition held in this city. One prominent feature in cestan clanees in the great number of imported an. mals, which npeaks highly of the enterprase and prosperity of our Canadian farmars. In many of the claesta the whole of the anmale shown would bear a very favourable compar. ison with any exhibition in Britain.
In class 1, blood hornes, the sbow of horses is very meagre, and ie inferior to last year's exhbition. The primcipal exhibitorsare Mr. John Shedden, of 'Ioronto; Mr White,of Bronte; Mr. Luton, of Pickering, and Glennie Co, of Waterloo.
In section 1, only two horses were on the ground. Mr. Lanton's bay horse Warmanbie, by Mountain Deer, dum hy Tosith etone. This horse is a well-bred short-leggend horse, and likely to improve our stock of roadsters and sadde-hrorses. Wrimanibit ganed several prizes in the north of Eag laud. Glenne \& ('o shaw J futler beted m Kentucky, by Youmg Muburwe, nam,$\because$ Florizes.
In Section 2 , Mr. Luten whhre has three year old horse Herr ai law, by ihur. manbe, which as a ers usefulloukigy horse, but we expect whl have to succhms to Mr. Shediden's the horse Norlandir. hy Lightnity, wint of Jome heam. by inported Knight oi st. Genge, winner of the st. Leger. Acrlander is a beautiful bay, with black pointa, anil has atraaly recencal two tirst pryes at Provmenal tishominns. He stond first favourite for tire Quecon's Prate ia May last, hut. owing to a slight tigjury, hall to be laid up in his training.
The only colt shown in section three is Haiistorm, by Thunder, dam Juha Adams, by Vandel, and in the following sectionis Hurrscaue, full brother to the fonmer, both the property of Mr. Sheddon. Mr White also shows licformer, by Luther, out of Annie Laurie.
The other sections are very poorly filled, sud most of the animals show u have already been exhibited. We expected to have feen a mu, hbetter turn out of blned horses, as a good many valuable horses have lately been importcdisito this cour try from tne actghbotrine Republic The judgesin classestwo, three and four had most of the horses paraded in the ring without giving any rewards, aud, judgms from the numbers and excellence of the ammals shown in the various sections, the tack of awarding the prizes is by no means a sinecure.

The hravy draught horses appeared to draw sperial attention. In sectien one there are sixteen entries, but only ssven exhibiturs. This section has always been well represented at our Provincial shows, but this year, as a whole, surpasses
any for:erer exbibitice. The seven anmals exhthted are imported. Mr. Bray, of East G ritian bury, shows Dundonald, a beautifu bay, powerfully bult, and showing very tine a.tion. Mr. Bray purchased this hotse in Sontland last $\mathrm{San}_{\mathrm{ar}}^{\mathrm{ar}}$ is certainly degerving of credit in the enlection of this anmal. He also imported the horso Little Wonder, who, we are sorry to state, as already montioned in this piper, dicd at Nex market on Saturday last on his way to the Exhibition.

Mr. Long, of Laneing, York, also shows two excellent horses very lately mported from Eugland. Eoth aummals do credit to Lie importer.
The veteran importer and exhibitor of stock, Mr. Sumon Brattie, of Aiarkham, is repregented in this section by a very compact, usefullonkuug, roan codoured horse called Border Chicf. Mr. Shau, of Bowmanville, exhibits the horse that gained the first prize at King. ston last fear; but owing to the iucreased enterprise of our Canadian farmers in making ;rehimportationg, we presume he will thid year be placed further back on the list
Mr. Haney, of Beverley, shows his brown horse Chanypion, who still looks well, al. though advancing in years. Champion Has bred by the well known breeder Mr Kirkwool, of Shankston, Ayrshiro, Scotland.
The three-ycar-olds are also very fine, and, 28 a class, surerior to anything ever exhibited in Canda Mr. Gcorge Cockburn, of Hamilton township, Northumberlaud, exhibits the borse which he im. ported a fewweeke ago, and which gained the first prize at the Highland and Agricultural Souety s shows at helso, Scotland, in July last. This 18 a very powerful horse. a beantifni dapple brown with black points, with the es citinn of a little white on the of hind hg. Mr. Harvey, of Beverloy, shows a very the bay honse with fue a tion and unequallet? cymatery; We anticipate that both horys Wll $5^{\circ}$ sil will fursard on the price list. Ar Fixhir, if IF irnn, who formerly ownd Fualani' $\sin y$, a winner of many $\mathrm{p}^{\prime}$ 'zes, hhow an evellent animal imported fron fondat. The heariest hurse
ghown in this scction is lard Hadion. the ghown in $t 1$ is scction is Lowd Haddon. the propesty of Mr. Cahom, of Mitchell.
The arrangements in the showny rag and also the accommodation for the horsware very complete, and reflect grat ereoit on the lical comnittec. The Judjes will connmence therr axards at nine oclock tomorrow morning.
The Judges commenced therrawads at nine o'clock this morning, and, as we antisipaten, Mr. Boag's horse Dundonald vas placed first in the section for aged heary draught borses.
In the three-jear old section Mr. Fisher gained the first prize, Mr Sumon Beattie, of Markham, also exhibited a very fine young horse ; Mr. Charles Douglas, of Oakridges, showed his hrown hurse Young Sentland. lately imported, Mr Juhn Bell. of East York: is also represented by a very useful-looking animal.
The section for two-year old stallions is well filled, there bemg over a dozen exhbitors, and most of the animals sherin are inported from Bntan Mr. Mavon of Tucker smith, coters two very tue ammals, and Mr. James Laurie, Malvern, Dr James Armour, York, and Mr. Smon cattie also show good horses.

The horses which come under the head of the agricultural class were also shown, and although not quite equal to the heavy drauglit, they made a very gool appearance. Mr. Conlter, of 13rampton, gaiued the first prize for aged hoses with his brown horse Defiance, who was also tirst in his class at the Provincial two years ago. Mr. Teasdale. of Midhlesex, secured the secont prize ; ant Mr. Marvey, of Heverleg, carried of third
 also showed a very tiue strong horse, wheh "e wuuld consider hetter alapted for the heavy dranght than the agricultural class. In the section for aged stallions for road or carrage, Mr. Paton gained the first prizo.
Mr Donglas, of Oakridges, showed Erin Chicf, one of the tinest road horses in Canaila; he stands sixteen hands high. and can trot under 250 Many people thought this horse the best in the ring.

Mr. C. P. Mein, Toronto, exhilits Asbaugh George; and, sithough a very good horse, he failed msecurea piize. Askangh (ieorgeshousmany, gond prints, and his stock de very promismg Mr. Simon Beatie exhibts two horses, both four year old and nue of them yained a tinst pr io at Kingston last year. The three yoar "id carrispe hosses nere not so numerols as we have setn on previous occanious. The following gens:emen, viz: Mr Shoultz, Midulesex, Mr. Ludman, Wentworth, and Mr. Maion, Huron, showed very promuing horaes, and the judges experienced considerable dufficulty in decilung as to the respective qualities of the competitors.

In seation three for two-year old roadater horsen, twelve animals were exhibited. Mr. Fisher, Colioom, Huron, gained the first prize with his imponted colt "Tommy Peacock." Mr. Fisher's colt is one of the finest specimens of the Evglish coaching horse perhaps ever mported to thas country. We might aleo remark that Mr. Fisher is degerving of every thanks from the agriculural community for bis valuable selections, and we trast his. enkerprise will provea successful speculation in every sense of the term.

The y carluys were not so mumerous as in the former class, aud Mr. Long, of Latnsung, York, gained the first piize with his amportel colt "Tuckall." We are glaid to see Mr. Lonit stauding formard on the prize list, as he has spent a great deal of time and noney in importing horses to this comutry.
The entries for French horses were rather linuted, hat some good specimens of tue harty French Catadian appearcd on the butha. Messrs. Melyons and Molichlar gamed the firs prize with their apprupriately named horse Champion of France.
In class four, section three, for two year old stallions of the heavy draught brect, fifteen young horses were entered. Mr. Charles Mason, of Tuckersmith, was placed firet with his fino black coit umported in August 1871. Mr. Simon leatiie and Mr. James Laurie, of Scarboro, also exhibited very promising young ones. We were glad to see Mr. James Armour, of York Mills, on the ground with his bay colt, which he purchaed in Scotland in July last. Mr. Armour's horse looke exceedingly well, considering that it is only a few werks since he was brought to this conutry, and experienced a rather stormy voyage across the Atlantic. Mr. Kemp, of Weston, lost a very valuable ammal during the sane voyage.

In section for yearlings eleven colts were enter-a, and the whole of the prizes were gaved hy nuported anmals. Mr. John Iackson, of Chnguacousy, was fortunate in carrymg off first houours, Mr. Wilson, of

Whitby, was placed sccond, and the third fize was awaritel to Mr Inng, of Lansing, Tork.
The hurees cu'cred for the diphoma of the Assoctation for the leet stallion of any age wicre luw brount into the ring, anil the coveted piza w=3 awaried to Mr. Bungis horse.
In bection three for hesiy draught thlles, three jars oll, ouly ais animals were entered. Mr. Surith, of Glanforl, gaineel the tirst prenium, whth a line bay mare hed by exhibitor. and Mr. Geric, of Dundas, secured both second and thrd prizes.
In sectious seven and nine we were glan to uotice our old friend, Mr D. McConnachie, of Clarke, again oa the tield, aud both his brood mare and two-year-old filly were deaerredly admired. The well known brecders, the Messrs. Beith, of Darlingten, were alee on the ground, and were successful in carrying of honours. Mr. Humchinsou, of Toronto Gore, gained the first prize un section nine, with a very fine brool mare, a winner of many prizes.
The carriage horses, sixteen han's high and upwards, were now bought into the rag, und very soon brought 2 large concoupse of epectaturs around the enclosure. There is wo dǌ ing the fact that a little trial of speed excites the enthusiasm of the spectators. In this section t.iere Wers twenty one entries, and some goud pairs were shown. Mr. Binger, of Palermo, "as lucky in gainiug the first prize, with a pir of good stepping browns. Mr. Tansickle, of Jerseyrille, deservedly secured second bonours, with 2 pair of very nice chestnut mares. fcur and tive years old, and full sexters. Mr. Forsyth, I) axdas, and Mr. Martin Jordan also shoved very useful teams.
The next on the programme were the driv. ing horses under sixteen hanils. Mr. Davis, of Rechmond Hill, showed a pair of nice bays, well matched, and good movers, and he nas successful in carrying of the first prize-Mr. Nelson Playter was placed second.
In eection thirtecn, for single carriage horses, the catalogue showed one hundred and fifteen entries. Mrr. Furnivale, Hamilton, shoped an excellent driving horse by Allandale. The well-known host of the Royal, Mr. E Irving, also showed a high stepping, slashing bay gelding. Mr Gregory was represeuted by a good-looking grey mare.
In section fourteen for sadule horses there were fourteen eatries; Mr. Smith, V. S., Toronto, gained the first prize, with a handsome six-year old gelding by Ulverston. Mr. Wm. Hendrie, IImmilton, was placed socend, and Mr. Swartout, of Norwich, third.
A new and interesting feature in the horse ring was a pair of Newfoundland dogs attached to a handsomely got up diminutive carriage, and driven by a young lady of eighteen months.
The judges have now nearly finished their awards, and their decisions appear to have giveu gencral eatigfaction.

## CATTLE.

Duruass. - The show of Durham cattle, thoroughbred, and grade, most urrioubtedly surpasees any former exhibition that we have ever attended.
The numbers seem to be large, and the quality are undoubtedly excellent.
We observe that not only are the herds of our more noted breeders fully up to the usual mark, but that many new breedors have come into the field, evidently fully determined to run close apou the licels of the herctofore successiul exhibitors in the race for premiuk notoricty.

Tho ascommodation for cattle is good, and it appears that the exhibitors are well provided with the necessary fool and bedding, while we hear none of those common complaints of want of water that are often hearl upon the warious exhinies grouads througkont the country.
The hedvare of cn, airy, and yet at the same time were protersed from storms; whilst the extent of the ground (nino acres baving been this Fall added) is such that the stock will not in any way interfero with the crowd which may be expected on Wednesday and Thursday.
Among our well-known breeders we ob-servo-Messrs. John Suell \& Son, Eilmouton; Georgo Miller, of Markham ; John Miller, Pickering; W. Telfour, of Guelph. We also noticed some very fine cattle shown in Col. Taylor, London; John M. Bell, Burnside Farm, Pickering; Simon Beattie, J. R Hunter, from Centre Wellington; Hum. phrey Snell, Clinton, and many others of lesecr notoricty, but amongst whose herds wo noticed very many excelient cattle.
As to the favourite breeds in Canaila it would appear from this year's exhibition that opinion is about equally divided between Booth and Bates-thero being excellentspecimens of each breed upon the ground. John Snell, of Edmenton, shows in the place of "Loudon Duke," an imported bull, "British Baron," 3 years old, bred by and bought from Colonel Towneley, Lancayhure, Eugland. "It will be remembered that "Louklon Duke" carried off many laurels at Kingston, where he was opposed by seversl excellent bulls. He was the winner also as lwll of "The Herd," and, having been sold this year, his place will be taken in compe tition for such prize by the imported "British Baron." This bull is really a picture, stately and fine; he would never diserace a Roval in England.
Being deep and broad in front, he is well filled out behinid the shoulders, well ribbed un, has a very perfect barrel, and is carried out straight and true from neck to rump, with very squars buttocks. On head, neek and shoulder, he shews the fine characteristics of the Booth breed, and is every inch of him a Towneley bull. His colour is also very good, beigg a dark red roan. We were al. ways great admirers of "Loudon Duke," of "Loudon Tom," Lut we congratulate the Messrs. suell on the fresh blood that they have imported for their itock in the person of "British Baron." The peculiarity of "Loudon Duke" was his certainty of trans. mittlng his colour, and style to his progeny, and this is clearly shewn in several young aumals, heifers and beifer calves, shown by Messıs. Shell. We see "Clara Barton" and "Namorie Rice" and they look if anything better than last year.
These two were beaten at Kingston, but when shewn against the same animals at the Central in Hamilton, they took first prizes. We trust they will uphold their laurels, for they are ceramly very handsome cows.

We cannot leave this herd without noticing a very handsome yearling heifer, "Crimsson Rosebud" being another of Loudon Duke's stock; and in her are fully develloped the many good qualities of the father-long, low and roomy very fine in head, with excellent dewlap and good colour.
We see John Miller again shews "Oxford Mazurka," who is looking well. He has also the two cows shown at Kingston, and we point to them as another proof that the stock at hingston last year were undoubtedly above par, viz., "The Rose of Strathallan" and "Cherry Bloom;" and we also particularly
observed two bull calves, both by "Oxford Mszarka," viz., "Isabella" aud "Cherry Blomen.

We regret that we do not sco "Fawsley chinf" nn exhlition, but some of his stock are here.

Wre may notire in passing that there is an immense number of stock lately bought by Canadian brecters from Mr Cruickshank of Sittydon, Aberdeunshire - strains from his stock beng found in a large number of our herds.

Humphrcy Snell, of Clinton, shews Dixio Duke, 315-aged-bred by Jno. Sinell of Ellmenton, got by Duke of lourbon. Wo do not think much of him, he has great size, but is clumsy and somewhat coarse.
J. R. Hunter, of Alma, Centre Wolling. ton-a comparatively younc exhibitor shews a very fair herd-having 9 short horns and 6 good grades.

Ie has an excellent and almost pure Booth blood. His name, Kinght of Wallerby, stamps his breed, being a scion of the excellent Vallerly family of Lingland. He was bought from Mr. White, of Clintertly, Aberdeenshire, and was got ly Baron Booth, (21,212).

Mr. Eunter's herd is mixed, some Booth and some Bates.

He shows a very handsome 2 year old bnll, Oxford Duke, that took diplomas at London and Guelph in the yearling class.

Mr. Beattic shows a bull, Dake of York, with undonbted signs of Bates in his breed, a fair specimen of the eanme.

We sere much pleased with a two ycar ohd bull, "Doctor," exhibited by John M. Bell, Burneide Farm, Pickcring. This bull was imported by Mr. Ccehrane, Quebec. Ho is a very promising animal, with mare fine muzzle and head, goorl colour, and well pett together. We donbt not but that this bull will make a decided mark in our future premium lists.

Georga Miller, of Marbliam, has an excellent show of cattle on the grounds. Ho shows "Forest Duke," 3 years old, by famous old "Bell Dube of Oxford."

We formed a very tavourable opinion of this bull when hr took the first prize last year in the two-year old class, and he has grown in such form as to fultil our anticipa. tions in regard to the value of thas bull.

His one year's growth has been vory satiafactory, and he will be a heavy well-formed bull.
"Beil Duke of Oxford's" stock are in full force, there being "Lady Belle," dam "Portia," an excellent cow, but with bad colour, and a yearling heifer, "Necklace 5 th," also a heifer calf who descends from "Star of the Realm."
"Foressie," two-jear old beifer, another importation from Mr. Cruickshank, is in good order. She took first prize at London.
A four year old "Xmas Eve," "Necklace 4th," "Bell Duke of York 2nd," aud "Lady Belle of Oxford," all from "Bell Duke of Oxford,"show distinctly his grand virtues-good shoulders and great squareness of buttock.

Wellington shows "Young Scotlmad," a very handsome searling calf, laving just turned his year by one month. He is from "Star of Peace." Imported "Star of Peace" is by "Forth," 17866, bred by Sir William Stirling Maxwell, Bar't. This last celebrated bull was fixst at the Highlaud Socicty's show at Kelso, the gold medal at Stirling, the first prize at the Royal igricultural Show at Battersea-finst at the R. A. Show at Newrastle and of the fíty-guiuca challenge at Aberdeen. Eip
also shows Clarendon, 7 months ald colf by Armulr Bearer, (mpyrtes); dam, Bessic.
He oa nice calf, vory serare lift at and exceedingly well filpel and rame $t$ out in on young a calf.
We cannot pass by two lalh caives stown by Col. Taylor of Londion. These culves are Duke of spriogwood, 10 morths cid, by Proud Duke; dam, 7 th Du hess of Spre wood and "Duchess of Brocetnon," 10 wonthe old, iy "4th Duke of Geneva," ham "Duch. ess of Richmond." These two calves inere wonderfully developed for their age, and they bave all the alpsasauce of the pure Bates. They are a very tark red roan, are well raised at the buttock, and every appear. ance in front of improung an this thear oue defective point at present. "Sparagwoud s weak point is his neck, while "Brocktown" 18 not as good behind.
The Gon. Davial Chrisie soms afew entth which, however, to our mind, barily come up to his chl standard.
He shous "Kaight of St. fieorge," a very excellent Booth bull ( $260-44$, is a cice bull in groid iresh order-was bred by Carr Stay Honse, Yorkehme; dam. "Wincsar Qapee: by "W:udsor"; (1.013)-also ". Lori Blythe ' got by " Kught of Xt. George

## pevors

Bubur.--in aged Buils, 4 yeary and ap. a ards, inere were only three entrees, bat only two were exhibited.
Betwen the tro bulls whe cune lefore the juage, we should not hesitate fus $2 n$ a. etant "Harthand," the property of Cer.gge Rudd, Puslinch, is an almoat perfect specimen of the Devons. Just enough carl on the neck to stamp his purity; irpportions excellent, and colour $d \in t p$ red, fie is tie. born. aud bin' all through,
"Geuer irant," his colvetet, is too legey, a $\quad 3$ other faulte.
 so usual, sone excelient marianaty; whe John lincome of Londou, Thop. Gray, ot Oshaza, Geo. Rudd, of Jouluch, W. Azthegon of (iuclph, and lif. \& L curreace, al Iar. ham, thlerl the stall path some viry zee specimere.
It is cuident teat rie Uu-us are :aiber increasing in yonolariy.
Aymmars--iVe thins we never bate a beted siow of Ayrshies :n Canada than nere on tine gronds to tiay. Tre two broth. ers Jardine show ecverad very ane anmats, mang whish we nos.ced a vasy handsome two-gear-ohd Ayrumre haih. imported and bred by 11 ivil son, Ayrshire, Scothmi. In the same herd was a cow,' Ayrshire chass, "ored ey iv. Muir, Ayrahire. Thas Mr. Mur due for many years been one of the most exccesgina breeders and greatest prize-takers in the cld country, and throughout thas con:ment the mark of ins stock has been mate no many herds.
We may add to the alove as wertiny of note in Mr. Jardine's herd a hancisonetibreeyeaz old heifer, yearling heifers, three caives, and particuiarly a very handisome byll cilif.
Wm. Roxiden, of Plantagenet, P. escott, shows a large herd cleven an n=mber, all baudsome cattle, and for Ayrslures in very extra good order.
Compton, near quebec, it zut wea repregented in Durhems this year, shows au cxeeljest sample of what can be tone there an the way of syrshires, in the herd extiibited lo Jolan S. Gibos. ibs herd are vary bafom rad exceleni in coudition, fomm nem cnionr.

Considering the very long joumey from near Quebec, we were Farticularly struck with incer fresh appearance.

Eic shous a bull "Mare" to our mind the bem of the Evhibition. Forget his size and he is !ike a lirst class Durham Ife is very perfent in his joints--long raking iondy - very mare in battock.-
with is in away at the tail, she later beog a very com mon fail: ia Aysolire turls. We amberstand that he has been a very sucessfal prontaker in the States, where they carry oat Ayrshiso breeding far mors generally than in Cauada. Thyme is a very promising strongball, out of Glantrice, (290) 555; his dam, Nanuie, is out of Mars Prince Hubert, from the same bull, shows particularly the depth of shoulder of his iatier, ind will grow up a very hanisome abimal. Ere leaving this berd, we feel bound to antice a yearling unported, Lass of Gowrie. 1itogether, the show of Ayrshires is far :cter than auy that we have seen at our Provinrial Exhbitions, and very far ahead of bose at Kingston last year. We never saw a lurge colld etions oi Ayrshires in zuch good nrdtr as those in Hawilton this year. He loos upon these cattle as rery diffcult to - -egnlate. It is so difficult to combine size and heabtyin the Ayrshire, and on theotherhand, in srekins beauty ard symmetrical furmation, - 99 hard to provent she in livalual fron de. rencrating no size From some spezimens at -he fair, we should say that symmetry had "feen sady sacrificed to size
Mr. Cowrane's Ayrshire berd is also refresentul by some the females. There were many other extraj specimens, for a notice of which we cannot here find өрасе.
Ghehbl inic.-As ublal, Fi: W. Stode, of Grely, was the largest exhibtor in this lase, Eaijug It heail an the stalls. His noly eppnnest was (icu. Hood, also of Guel, ${ }^{2}$, who had a few shecimens, and good.
 redaci
Gal inac. nercgood, ine chici eximbitors were, as $1: 4$ ad, Wm. Houi and Thomas McCrace bu:c wi Guqph, sate we saw bone


Thane capree pere farly acpresented; He conaties of wellington and lientworth si:Gwed acer! y all.
Fit "Muris-A! were sood-int the a.canl cxhibitions wery newch fess in whu,bor than as entered.
We particulariy notaced a yoke of Durham g-ecrs, shown by J. S. avi Geo. Thompson, of whilly we regret that we could not learn their weight, bat wo should judge them over 20 crt . aprece.
There were two very fine fat Herefords belonging to a Mr. Coutts.
Annther hanisome yoke of stecrs, which re understand afterwaris tonk the first prize, wiss shown by J. S. Armstrong, Eramosa, Wellington. These were such eattle as we should expect to see tuued out hy the Mesars. Armstrong, and were probably fixer fat cattle than those cxhbuted by the same gentlemen last year. This yoke, one a Hereford and the other a Durham, shored the different style of these two hreeds very distinctly. The Elercford. we should say, vas rather larger an bone, and cinabtless will not make the ame amourtof becfas the Durbam.
ile can readily understand the great difsE.ity that the judges had in adjulicating inetweon the roke thown iv the Mesrs Tyonpisno, nf Whithy, and inat saown by


## SHEEP.

The show o shecep was very lurge, and some of the animals exhbisted in the various classes would have been formidalle competitors even at the Eighoh Rogal Agricultwral Soricty's show. The Cotswoh shecp were vemakably good, and wery manervas; and we may remark of this class that it appears to tind very great favour with Camadnan feelers, because they are not only found to be abunciant producers of wool, but also good mutton, and as the quantity of both is large they are fonud to be very profitalis sheep on Canadian pastures. Thas fact is borne out by the action of several shect-feeders who were exhibitors, and we may mention 2 circumstance that we heard in the show yard yesterlay, to the effect that Mr. Millar, a breeder and amporter, went to the oll country this summer, and umpord between thurty and ferty rams and? ewes, many of which wire of such miccllate thin be sent them to the show cand ss coinpetioors in the varmus clasees to wach :bry belaged. Siuce this class of shecep weve fust introduced into this cuandry, they have mereased in favour every year, and when we mention that the catalogese contanned aine entries for the Prince of Wales' Priye, consisting of a flock of Cotswold sheen, comprising one ram. one rain lamb, five cwas, and five exe lambs, it will be seen that the com: petition was very keen. The successful competitors were Messrs. J. Snell \& Sons, who have already won this prize for four sears in succession. For cutswold rams, two years old and over, thece prizes were cffered, and the entries amounted to $2 A$. Amons'st the competitors, Mr. F. W. Stone, Gucligh, Wellington, showed exvehent an:mals, as did Messrs. Snell, Edmonton, Peel. Thuse animuls were in the highest cordition of llesh, and although they bad a coat of wool of only about four months' growth, they looked long-woolled whan stauding, bat showed the quantity of mutton that each carricd by the sprealing of the body when the anmal lay down. Allr. Neal McKay, oi Darlington, Durham, and Mr. Jacses Rassell also showed some fine sheep in thas chacs. For shearling rams of this breed, three prizes were offered, and as competitors no less than 33 cntries appeared; Mr. Stone, of Guelph, Mesars. Snell, of Edmonton, Yeel, Mr. James Russell. Markham, York, Mr. Joha Miller, Brougham, Ontario, and Mr. Wm. Canfieh, East Oxford, being the most extensive exhibitors. 3lany of the animals shown exhibited a rare degree of menit, and, we ghould imagine, occasioned the judges a good deal of tronble in deciding which wis best. The entries of Cotswold ram lambs for the three prizes offered amounted to 47, and anaonget the competitors, Messra. Snell, Stone, liussell, Miller, Beattic, and Miller were eviensively represented, while otber exhibitors showed sheep that appeared to have all the qualities necessary for the pro. diaction of good stock. The section for two Cotswold cwes, of two shears aud coer, inalnied 쁠 entrics, in which Mesem Birrell an! johaston appeach as comportu;s whin
those already mentioned as importers and breeders of sheep, and with a few exceptions the above named exhibitors contributed an excellent show of Cotswold shearling ewe: and Cutswold exe lambs. A very in. teresting secticn of the Cotswold c'ass was that devoted to pens of sheep counisting of one ram, two ewes, and t:wo ewe laubs, for the best of which a prize of $\$ 00$ was offre 3 , but the competition was principally conticed to the same breeders as have been mentioned in connection with this class of sheep, and the merit of each pen showed how much attention is being paid to the reariog of Coteswolds.
The Lencestersiare sheep will, perhaps, come next in the order of favour, if not in the order of merit, but probably that, ton, so far as the experience of Canada breeders and feedêrs has gone. Indeed, sunce these sheep were first brought to this country they have progressed in favour rapidly, for it has been found that they have not degencrated on the dry pastures of Canada. There were three pr:zes offered for Leacester rams of two shears and over, and thirty six entries, and they represented nearly as many uames. No doubt the fact that these are great wool-growing sheep, with small bone and good mutton thereon, has given them greas favour with many; but, at all events, men who are partial to Cotawolds and Sonthdowns have also a liking for this class of sheep, and tiney are growing in favour every year, Shearling rans were well rep. resented, there being no less than it entries and Wm. Canfield, East Oxford, Eenry Ham monds, Brantford, Patrick McClerie, Walpole, Haldimand; John Snell \& Sons, Wm. Douglas, Onondaga, were the most numeroue cxhibitors. In this section the competition was very keen, and the admirers of sheep found much for admiration. The Leicester ram lambs, for which there were three prizes offered, numbered 53 ; in such a namber we would not presume to say where the grcatest amount of merit lay, and we imagine befure the judges have got theough their worb they will tind a geod deal of trouble in ararding the prizes Messrs Snell, Duthlas, Pusaell, MreNac: Christugher Walker, Ham noni and Wools were well represented as enterphisitg breeders of sherep. The show of Leicester $\epsilon$ en, looth stuarliu! and two shears, was larec, and the ewe lanbs curne un to agy previo:s exhimtion.
Liweoln sbeep numbere 47, and were rot extensively ownet, Mir. Lichard Gieson, of jomdon, Leing the laribest extibicor.
Slediun-wohled sheep were more na merously quisin than in amy previcus rear, and it is pleasing to see Southiowns growing in faveur, as they are good wool growing shecp, and for mutton cannot be beaten Hampshire sitcep were more uumerous than Shropsinire or Oxford shire; and we doubt the wisdom of ignoring the Shroisbires, inasmuch as within the last ten jears, sidse proper attention has been naid to thes beeed of sheep, none bavo been found more protitable or better worthy of attention than these. The Tpanish, French, and Saxion mermo sheep ais not now in so much favour 28 they formerly were, and, consequentiy, the sine. woohod were outnumbered by the others. The show of fat sheep wis good. Mesirs Gearge Hood, Guelph, George Weldrick, and James Russell being the most namerous exhibitors; and certainly some of the epccimens were well entitled to the classed as among the "fat" animals of the show.

## PiGs:

it is remar ...ble in mure genses than whe wito what fawour pigs are always vewed at pubic exhibe",us, ior, through thoy do ner
produce the most sweet smelliny odours, even ladies, whose olfactary nerves might be considered the most delicate, are constantly found amongst their most careful scrutineers. It may be that thas is owing to the domestic relationslip of the animal in that section of the old country where the pig is looked upon as the "gintl-man who pays the rint;" but, from whatever cause, certainly the specimens in the show-yard are worthy the attention iestuwed upon them. If we except the county of Berks, in England, it would be difticult indeed to find a better show of Berkshire pigs than the Gamilton Exhibition affords. Begaming with the boars of one year and over, we have seldom seen a finer Berkshirespecimen than that exhibited by the Hon Geo. Brown, Brantford-an animalonly 17 months old. It is not so large as some in the show, but forsymmetry ithas noequal; though there is another boar pig shown by John Snell \& Sons, of Edmonton, Peel, that comes into formidable competition with it; and one shown by R. D. Foley, Bowmanville, Durham, that for its size has the best feet and legs we bave seen of late. We shall be much surprised if the judges do not award the prizes in the order we have named them above. Mr. Wright, of Sandwich, bad a fine, healtby-lowing animal that sume of the spectators admired very much. and George Roach. of Hanilton, hal two fine specimens of the breed. The young boar pigs were nunerous, atad as Mr. Lioach was such an ex tensive exhibitor, we should say that he has taken quite a fancy to the black short-legged Berkenires. The animals shown by Samael Mason, Trafalgar, Halton, were very good for their age, and Thomas Blanshard, of Nel son, Halton, showed a perfect beauty of ten months, imported this year from the farm of Her Majesty Queen Victoria. The sows of one year and over numbered 31, and, taken as a whole, were very good. Joseph Featherston, of Toronto, Peel was an extensive exhibitor, as was Mr. George Roach, of Hamilton, whose name we have had occasion to mention so frequently, John Suell \& Sons, of Edmonton, had some long pigs that lofied as if they would cut Wright, of Sondwich, had several well. mare pigs in this class. Simon Beattie and E. H. Irving were exhibitors whose specimens of zenthires were much admired; but for young sows of zinis bred George hoach, of Hamilton, was in excess of all others in the number of his entries. The auimals shown by E. H. Irving, damitton, were very good, and Simon lieatiie, Pickering, Ont-, showed a tine young sowinnported this year. snell \& Sons were also well repraented, but were we to mention each mimal in the large show of Berkshire pigs that would command the critical attention of judges at coanty shows in England, we might enumerate every animal in the Berkshire class of the oxlibition. The show was much larger than that of last year, and we might say that the amprevement in breed was quate as great as an tice number of animals exhibi ted.
The Suffols pigs, wincica are a class with little hair and fine bones, were very good specimens, but they were not as numerous as we could bave uished to see. This clars of pigs, however, has not long been introduced into the country, bat sunce they came they have been rapidly increasing in favour. Mr. Jacoo Terryberxy, of Glauford, George Roach, John Cuming, Joscyh Feather. stone and others exhited fine animals in the elass for boars of over one year, while iir. Featherstone was a large exhibitors of young boars, as was Mr. Man, Mr. Cumixg aud Mr. Wught. freed sovi fere nct unmerma, but yrung suftiz
ows were numerousin the competition for the three prizes offieren, and the exhibitoms were principally geutlemen whose names have been already mentioned. Essex pigs were shown by Mr. Roach in great numbers, but his competitors for the pri/es were not numerulls.
Thure was fair show of cther small bruods, exclusive of Sutfolk, Berkshire ani Hissex, but we saw nothing in the exinibition callug for specalattention, except that Mr. Featherston appored to have a noonopoly in this spe. cial class.
Yorkshire and other large breeds sound evcellent representatives in the specimens who lay and panted in a state bordering on euffo. cation-a state, however, that appears to characterise all the porcine animals that we have ever seen in a show yard. Mr Main, judging from the number of animals he had entered, appears to have a great faucy for this brerd of pige, and we doubt not he fill Gind them wrotitable as bacon producere.

It should be stated that with a riew of encouraging largely the impretation of improved ssock, the exhibitor of any male animal imported into this Proriuce irom Great Britain or any foreign country, and not previously exnibited, which sh:all take the tirst prize in any of the above classes, will be paid by the Society three times the premium offered in the list; the exhibitor of any female animal imported and nct prcviously exhibited, taking the first priza, will be paid double the amount offered. This is an inducement for exhibition that may well have contributed to the suevess of the sh.jrr.

## POULTRY.

The show of poultry was very large, and in most of the sections the specimena extubited were of a very superior character. Of course, in any distict, there will always bo a number of poultry fanciers, who day more ottention to the breeding of birds tian auy other class of persons, the result of which is, that while an exhibition of poultry produces perhaps a very large collection, they are owned on! by a few. Iiowever, those who take any interest in the rearing of fowls had an opportunity of seeing in the show yard to what perfection they can be bronght with proper care and attention, and no doubt the exhibition of such fine sye imens of pontry will stimulate many to give more attexvion to the rearing of fowls.
The Dorkiags, whech are perkaps the most prolitable kind of poultry that can be reaved, forned a very good show. I1. M. Thomas, Brooklin, Ontario ; W. N. VanIngen, Woodstock, Oxiord ; W. M. Smith, Burford, Braut; John Bocque, West. minster, and James A. Miller, St. Catiarines, Lincoln, showed some trio cooys of white Dorkings, which were very much admired.
The coloured fowls, in which tie above geutlemen were also exhibitors, were aleo very good, but the specimens shown by Mark Iiili, Hawilton, Wentworth, and John Boque, Westminster, were especially good.

There was a good ahow of Polands, and the white-crested were remarkably fine, Mr. Thomas and Mr. Boque being especially fortunate in their selections for exhibition; zo better specimens were shown. The goldens were aleo good; James A. Miller, IT. M. Thomas and John Niunn, Toronto, York, showing some trios of great morit. The eompetition mas very liem.
The silver Polands were very beautijul, and were principally owned by cahibitors already named; but in our opinion Jobo zogue and J. W. Johnsten, of Grantham,
though there were none that could be considered unworthy of the exhibiti n.
Game birds are always object.s of interest. and the specimens wire very numerous, though in sunte cases the bords ded not ap. pear to be of ummised hiund. However, there could be no doubt about many of the reds, Dhacke, Uhes, and browns. Conephenous was a pair exhibited by Eluarl Collens, of Wundas, Wentworth, and imported thes year and Jas. A. Miller showed another excellent pair, that ought to stand well with the juages.
The duskwings were not very numerous, luat considerng that in most distructs they are not plentiful, they had a fair re presentation ; Mr. Miller showing one particularly good pair, and Mr Whyte, of Hamilton, IF. II. Yau Iugen, ithomas Furlong, Hamilton; Daniel Allen, John Boque, am A. Terrill, of Wouler, Northumberlani, being well represented.
There were fice parrs of Paley game fowl, but we nutiell uothing concerning them calling for esficcial cominent
The Cochn breed formed quite a show of itrelf, and it is wonderinl tos see the extent to wheh this class of poultry has progreesed in pubhe favour of late years. Coups of cunamon and buff wete numerons, and the brdes were very large; J. W. Johnson, 11 M. Thomas, and Johin Forsyth ghowing the best in the yard. The fame may be said of the partridge breed, and the white and black, all of which were good.
The Light Bramas were very superior, especially those shown ly J. W. Johason and John Boque, while Mir. Thomas, of Brooklin, and others, exhbuten sjecunens deserving of great attention.
Dark Brahmas, which were ehoun in coops of three, were best as owned hy Mr. Thomas Daniel Allen, Galt, Waterloo, and John Forsyth, Toronto, and the competition for the prizes must have been very clese.
The Spanish fowls were not very numerous, but in the section for black and white. by W. II. Van lngen and sone other ex hibitors. The white Spanish were also very good, those especially shos'n by Mr. Thomas
The Hanburghs are always an intereating section of a poultry show, and the guldanpencilled, thinugh not numerons. wele rely inir spmomens. We silver pen illed were in ghor, erpeciaily those shawn by Mr Nunn, wi Toronto. ln the competition - unongst the golden spangled llaniburehts the rontest was a lieen oue, Al . II. N Thomns taking the lead, Mr. Finan and Mr. Study, of Guelph, Wellingtom, standivg in a drubtful position to each ohlor in the order of merit of sil-ver-spangied Hamburgs, there was a very tiae show, and certainly no class of fowls can look more heantiful than these do. Mark Hill, of Hamilton, showed three birds that were real beantics, as did Johu Boque, and sercral oshers.

Mr. Thomas, of Brocklin, Ontario, may be said to have that part of the exhibition to himself which yas devoted to Crevecoeurs and Ia Fleches, and he wiss also 24 exhibitor of Houdans, but in the latter section birds were shown of greater merit thau his, eapccially by Johu Botuc.

And now we come to that spiritedirceiof little birds, Bantamo, that will tight cither annopg thenselves or with may breed it the
 reds shown by $\mathrm{I}_{\mathrm{n}}$ nes A. Maller, of St. Cotimuince, and glyo a pair of game duckwings. Those heautinul Jittle birds, tho Se brights, wete fully ryresested, and the white and icathered-legge! Bantams were also
shown in goodly mumbera. These comprised some of the must beautiful birds an the show; Johm Bogno aud Thomas llarper, W. A. Forfar, Scarhoro', Yorh, atd Thomas Friendship, exhintug the best specantens in the reepective classes.
There was a section for any vaticty of fowl aut specialls classed, and the white Yolands shoan by II. M. Thomas, were really My line. Mr. Aunn, aud Mr. Battertiehi, of Edmonton, Peel.

Thu turkeys were the largest that we have seen, and the bronzed birds shown by J. W. Johaston and James A Miller were firstclass. Mr. Johnson had the two heaviest turheys in the show; and James Vine, Granthirm, Lincoln, and J. W. Bussel, Trafalgar, Halton, showed good hiris.
Gecse at this season of the year aroalways sho nu to allvantage, and epicures who indulge occasionally in the animal ruasted, believe that Michalmas is the only season of the year when it can be tasted in perfection. The size to which the birds of this class shown had attained, wouhd, however, andicate the presence of more fat when coobed than migyt be agrecalle; but certanaly in shape and feather they luoked all that could be desired as Lealthy puultry. Johw Culhs, Hamilton Tp, Surthumberiand, aud J. W Russed, Trafulgar, showed some erechent common geese. and the Chinas of J. W. Johuson, of Grantham, were equally goul.
The ducks wele beiter in quaiity than they were numerons, though the show was in nu respect pour. The Aylesburys of Mr. Sturdy, of Guelph, Mr. Henilrie, of Hamil ton, were very good, and the liouens were also large and well coloured; Mr. Sturdy, Mr Bethel, Mr. Rewatt, N. Dorchester aud Mr. Jehasou show ing some excellent specimens Mr. Miller, of St Catherines, had some good brds as wellas the exhibitors of dacks already mentioued, but as they were all low down, and the place alloted for the poultry show was too confined for the number exhibited, scarcely anything was seen to advantige.
Guinea fowls and pea fowls were shown in the exhibition, hat they were not seen so well as if they hnt had more room. Mr. Featherston, of Torontn, Peecl, Mcesrs. Smith, Barford, Prant, and Mr. Hinman. of Craton, were the prineppal exhibitors of these.

A comp of English phrasants was shown by H. Ai. Fhomas, Bronklin, that attracted mach attention; and the exhibition of pigeons was lavge both in numbers and variety, Mr Mark Ilth, of Lamilton, being a very large coutribator of the carricr, poutor, tumbler, Jacobins, fantails, barbs, aud other varieties; and against him as competitors were Mr Xumn, of Toronto, Yorl; Mr. Boque, Westmuster, and Mr. Johrston
There was a capital show of chickens, including Dorkings, Bramas, Cochins, Hondans, Hamburgs, Polands, and gamo birds in all their varieties, and in the various sections there were no end of sy, ecimens to be admired; though to the uniniated some of the birds, from the state of their plumage occasioned by rubbing agninat their caqen for some daym, gives them a bardry appearance that ill assorts with the prases that com. noisgeurs bestow apon them. some of the buff, as well as of the partrige cochin chickens shown hy Mr. Thomas, of Brooklin, were of enormous sze, and the chackens of the lloadisn and llamburg classes, sinown by Mr. Johuston, Mr. 330 guc, and Dir. Niunn, were als, iery tine.
 la mblitts, Freuch hares, Bremen gecse, and ohler curiositics that were much admired by those who ladi leisure; and altogether the elass was very interesting, but had not cnough space.

## APIARY DEPARTMENT.

Hores.- The competition in houcy is fully equal to former years, which is farmore than could have been expected consildering the great mortality among bees last year. Altogother there are nine entries, aud most of the honcy exmbityl 18 of very fiue puality. The uames of the successful exhibitors are as falows:
-1st prizo-Honcy in the Comb-H. M. Thomas, Brooklin: Lad, J. G. Ptolewy, Biabrooke; 3rd, Isziah Bere, Hamilton; 4th, Wm. McEvoy, Woodburn.
Clear Honey-lst prize, Wim. McEvoy, Woodburn; 2nd, J. L. Armstrong, Guelph, 3rd, II. M. Thomas, Brooklin; 4th, J. L. Taylor, township of Bartou.

Beenrves. -The compctition in Bechives is not so great as in former years, although there are several eutries. Nothing really new, however, has been brought forward this year Mr. X. Nicolle, of Lindsay, again exhibits the Economic Hive, the dimensions of which have been somewhat enlarged, which was quite necessary. We still thiak this hiye, like most of the othors exhibited, too complicated.
Mr. Josic, of Cobourg, is agaiu in the ficld with the "New Dommon Hive." The frames in this hive are so arravged as not to hang on bearinge, like most frame hives, but rest on their bottoms, their sides or edges coming in contact. We have strong objections to this construction of frames.

Mr. Otts of Arkona exhibits a hive which he calls the "Otts Hive." The honey base contaius movable frawes, making his hive a kind of two story hive. We think this hive would be greatly improved by putting more frames in the body of the hive and remoring the bar that pasees throngh the centre of the frame.
A. C. Attwood, of Yanneck, exhibits the well known Thomas hive, with some changes, in the construction made by himeelf, Fhich he claims as improvements. We hope the advantares gained may fully compensate him for the extra expense in corstruction. Mr. Attwood also oxhibits a swarm of bees in a model hire, and an Italian Queen, which are the only ones on exhibition.
J. H. Thomas is also on hand with his hiver, which, however, ace not entered for a prize. He having taken first prizes for seven years, gave notice in 1500 that ho would nut again enter for a prize. This hive is too well knowa to aced any description. It is the least complicated of ayy-hive on cx hisition.
Ho:my Exmictoxs. - Thereare threcof these on exhibition, though only two are entered for extra prizes, as Mr. Thomas does not enter his for 2 prize. They are a German invention, and hare becomea moceasity to eve ybee-keoper who uses frame hives. They all work on the same principle, but vary in oonstruation ; oither will extract the honey withoat injary to the combs, which may bere. turned again to the hiroe and refillou by the bees, which operation may be ropeatol as long as the honey harveat continuel.
Mr. H. A. Schoonan, of Mildraay, has on exhibition what he calla a cendenser, for the purpose of putting on the top of a hive m wuter, to condense the vapor ansing from the bees and secure it in the condeuser, and therely keep the bees dry. We have no confinerce $m$ thus condeaser as being of azy practical utiitity, hat it call din no harm to give it a trial. The names of the suocessful c.ehibitors are as foliows:
1st Prizo: Mr. A. C. Attwood, of Vinnneck. 2nd : Alr. P. Nicolle, of Limdsay, 3rd: Mr. Get. OHt, of Arkoma.

## HORTICLLTCRAI, DEPARTMENT.

## FRUIT AND flowers.

The arrangements for exhibiting the fruit and flowers are better than they have ever been before. Instead of crowding them into the same building with the regetables and grain, as has heretofore been the practice, a shed, some two hunired feet long and forty feet wide, has been erected so as to be entered from the Palacs building, arranged with double-contre table and talles on ench wah, upon which the fruit and flowers hare been placed in more than wonted profusion. The exhibitors in this department are indebted, we believe, to the indefatigable president of the Fruit-Growers' Association for this much needed improvement in the arrangements. If he had done nothing more in theanterests of growers of fruitthan toserure this much needed accommodation, he would be deserving of their lasting and gratetul re membrance.

Upon the centre table the collections of ornmmental plants are arranged, flanked on each side with fruits. In these collections are some very beautiful and interesting plante. The Ferns are well grown, and in their curioasly cut and graceful leaves form a very interesting feature. The many-coloured leaves of the various foliaga plants, mingling with the many hues of green and aumerous tints of bloseoms, contribute much to the beauty of the whole. Coleus plants with many coloured leaves, all showy and challenging the observation of the most careless passer-by, blend harmoniously with the gorgeous Crotons, and more modest, but not less besutifal Caladinms. Some very fine specimens of Datura Arborea in full bloom attracted much attention on account of their large, white, trumpet-shaped blossoms. Butan enumeration of all the beautify! plauts staged on this table would be only wearisome. Yet the effect produced by the beanty oi there plants placed through the entire length of the Hall is most hapiv.

The truly splenतid samples of pears which W.1. =bown at this lexubition were highly crovi ble to the grower, and prove that son, warts, at all events, ot our land are $u$ ell adia.i.al to the culsivation of this deliemous fium. The piras wea mainly carrird of hy grow ira from Hamlton and vanity. The Barthets vere most magmacent sampies; and that aost valuable jear for general cultivathin in this lrownce-we mean the Flemish Branty was sureiy never betier $!$ rown. It was aso grathiymer to see that the lieurre Jose, one of the mast minality we have, un displayed by scread calnbitors, andi the satapites eveewandy well devilopec. Beniro d Anjou alsu attains a goon siza and pronises to lea valuable late pear. 7 , •ality ai pear was one of the sorts (1.'anuted by the Eruit Groncrs' Assmia$t$, ', its members, and, judping from the a;r...t.nce of the samples caliibited, will be Jhe s. to le very satisfactury to the luvers of C. Truit. There yere some very fine
 Ns which may yet prove to be valuable.
arkit sort. in the gunurity and guality of the shown at our "rovincial Exhibitions for I vears past, and the number of good bat can be vucessfully grown here is stambily calaresea
aurculio cevilually dues not get all the wh himself, nur has the black kinot -d all the t.... li.we. as . very nable disp.. $\quad$ Mumas, sad so mu .f.
, uctics wer.
 s lmperial nase od the seweod $t$, - aricty of Gileais, wat: rticle we are
not acquainted, but which has some very good points. lu cooking plums the jellow egg received the highest award, and next to it the Duanes Eurpe.

Peaches and Nectarines were also well represented. 'Ihese fruits can never take a very prominent place in uur Provincial Exhibititions. The cimate of only a limited section almits of ther successful cultivation, but in those parts they are of tine quality and very far swed. The yellow-ileshed varicties were of very haadsome appearnce and secmed to be the most generally grown.

The staple fruit of thisclimate was fully represented. The quantity, varicty and quality of the apples could kot be easily sur. passecl. In fact, the climate and soll of Onta. rio is paricularly well adapted to the pro. duction of many of the very choicest varieties of apple, and our Canadian brands are much suught for in the frust markets of England and Scotland. Many years ago the Cunctla Farner asserted that the apples of Ontario wore of higher tlavour and better quality than the apples of the Western States, and although that position wasstontly controverted at the time by Western men,. yet the cousse of the market shows, by the preference manifested for our Canadian apples, that the public taste has coincided with that opinion.

Among the varicties exhibited we notice samples of the Ribston Yippin that would astonish the eyes of our friends at home, who have seen it ouly as grown in England. This variety seems to take very kindly to our Canadian soil, and combines in a high degree excellence of flavour with beauty of appearance. We know of no variety of apple that would better repay the Canadian cultivator who would take the proper course for placing it in fine condition in the markets of Great Britain.

The snow apples were also well grown, aud fully maintain the reputation of this very pupular variety. The samples shown wiere very iair, and free from those blemishes which msome lucalities sadly mar the usual beanty of this iruit. Those who can grow this fruit in perfection would find a few tbunsasd harrels very salcable in N゙ew lork, Philaduphia or Chicaso.

Another apple scen on the tabler, a fruit of the lid besi cxullence, the very best nister dezsut typhe grown, was the Swaj zie Porame Give. Ahas saricty is belicred to lave originated in this Prusince, and it is one of wheh auy Canadian nay be proud. As an widence oi the cstimation in which this apple is hela by our ablest pomologise, it is "nows h to sal that the Fruit Growers Assucia. sim lime adversised for sufficient trees to distrinute obe to ench of the members in the spring oi 15:5. It is not probable that this variety will cyer be as profitable a market sort as some o her kneds, but for amateur cultiviation, for home use by those who can enjuy the most delicate aromatic flavour usaly fut up in small packages, it will ever stand in th iront rauk.

The risplay of grapes grown in the open air is continually becoming a more marked fraturc of the Exhibition, and each year this delicious fruit is laid on the tables in ever increasing varicty and profusion. It is not lung, s mit dozen years or so, since the lsitbellia, Catawha, and Clinton were all the varicties of grape in cultivation, and these were shown it at all, in only a half ripe condition. Now we haye agreat number of varictics, many o' which aro well adapted $t$ the dinate of a large part of the mo vinel, and ripen in good season nm sume very hue bunches of the Eumelan wert stova. 'luis geaye, it will be remomburel,
way gratuitously distributed by the Fruit Growers' Association to its membirs for trial. The bunches shawn were of good sizu and very compact, the berries full medium size, jet black, aud of a good flavour. It is vely prubable that, when we get the repert of the Fruit Growers' Ast ocia'ion for $t$ is year. we shall be able to form a rery sool inea of its probable salue for general calture in ( ntario. The sample which receival the 1st prize was grown in God. crich.

The Rogers vanieties seem to be popular, juiging from the number of lates on the tables The lange size of the burries of these hybrids, the hardihood of the vines, and the good quality, flavour and early maturity of most of the varieties are quali ics wheh commend them to them to the attention of our iruit raisers. The chicf drawback with many of them seems to be the urezulaity in the size of the bunch, ranging fyom a very presentable sample to a nere cluster of three or feur berries.

In the class of $b$ st three bunches of any nue vaniety, Rogers'. No. 15 carried off both Grst and second prizes, which shows that this varicty staz ds very bigh in the estima. tion of sound judges. In hiavour it is viry pleasing; the bunches are often very good; but we have known some good cultivators who complained that the fruit was apt to mildew. Al. though very fine samples of graper were shown from widely eeparated parts of the Province, coming from as far to the northward as Goderich and Owen Sound, yet it Was quite noticeable that the greater number of tirat prizes were taken by graper grown in the more favoured climate of Hamilton and St. Catharines. The best Concords and Isracllas came from Hamilton, the best Delawares from near Niagars, and the best twolve varicties from St. Cathariues.

Passing from the fruit collections to the flowers, we are compelled to suy that there is a great falling off in the display. It is true that the last days of September are not the most favourable for finc Horal collections, $S$ me beaunful asters, dalias, and gladiolis with one or two not very extensive collections. of amuals constitute, with the greenhuase plants already noticed, the most attracive fatures. Among the dahlas we motice s,me very chome vamuties. Queen Mab is a nust lovely ioner, and ber sister, $t$ anny Siant, well wonthy tu heypher comgany. Kleiner Mowtz and Tayuiste are exquisite senns anom:g the Pompuucs. Fanny t whase is one of the best yellows, Miss. llenshaw a lovely white, and Gigh Sheriff alhont black, Any one in search of choice dahlits might study these collections, shown by two of our leading nurserymen, with great advantage.

The spikes of gladioli, in the only collection we siv, were very fine, but being placed. so far out of reach that we could not read the labels, we are unable to mention the kinds more particularly:

## VEGETABLES.

The exhibition of vegetables was better $n$ Guality than in quantity. Tomatocs were well represedted. It is an evidence of the good tiaste of our people that the hage, rough, twisted varicties have been superseded hy the smooth, solid-fleshed sorts, which, though not so large individually, are every way more desirable. There was a very large collection of prppers of almost every conccivable shape, and all ahades of - cd and ycllow. If the quality of peppers cultivated by our peoph. lears suca a propurtion to the other vegetalules of the gar. den that the di-ulay of them athen Exbibi-
 fachure all the loy emm＂e regut a：last a consideable quansuty for exportas： 9




 thot we judate took into con－ibieration m iber jolgment the use for wheh the se aris－ coes are deagned．Cauliflowers uere few－ the hate ant want of moisture lunius tire past keasom has been very manecal ty the erowtin of the delicions regetable

The IHablawd Syuash yet maintana tis hish renk as a lathatuan and viater lege． tahl．ami the owntes showh wew of great purity anl excrleare．

The putato is rewesing some attention from Mir P．C．Dempsey，of Albury．alous exhititerl kome fund ed sodoling sorts a atub he is yaitiny vith much care，ant from which some raluable lizus aill no doubt be select ed．On cuttion some of them wo notierd a inences of grain and purity of coloar．with solidity of theah．whin indirate pmonitle value＊or table ua，As seeding petsties may be some a feature in thio departer ent it is of geest mportanu hat the inders atemind have na opportimat of seeng them en ineti， as well as rau：if they are to pas－a witaide tory judgrent upon thear sable qualusea

We doabt whether the Hosthibinal de warment nit the fainibition has hitherto re ceived that attcntion ama tocouragement which is ：eriuires amd deserves；yet there ar－ somio cinhuces oi proxrest，and such men as Dempecy，Arneli，vil！s ard Suuniers，whol are bringing the ghill of the bybilitis：iato the servite of horticulture．are destrvidg of every asnistance and encouragement Tcess laboisrs，on theie part，are labours oa ine， and the hovernment that fosters azonciations formed of such men，and aids in obtaining and difinsing information throsgh them， will be doing，what governments are uct al ways sapposed todo．promoting the interesto asit a－ifare of the conatry．

This department is one of which litele can as yet ise said with certainty．Frout early momeng fill six ocleck articica crotume d to ar：：we，ind were pizced in theit uroper sec ：ions in the uestern extreanity of the groun is Thare are：，howi vir，a gnod！y unaber of I＇reshi：g machises grain drills，thowing and ruan，manhines，pluughs，\＆c，already hare： but－s said that not mure than one－half ot thase on the way hweens：at arrived．Among the yt．minont oxh hitors are arge number of these whope names bace already become fine ti．s：ie shecpesfil enmyetitors at previout
bit ainus．Imnag the promioentexhbitore in this clans，whose articles are already on －he gronala，are John Watoon，of Ayr；Eigg gart \＆Rrom，oi Brampton；L D．Saryer \＆ Fis．Pamitoon；Lawr uce \＆Son，Palermo； Bail \＆＊on，st．（isorge；and John Formyth， Dandxs

Ven y large acceasions havo beon mado in alonent every uection of this department since yesifrilay．The apprarance to day would geem $二 厶$ warrant the r－mark that for variety ani er＂at the ehow of implements exceeds that oi igrmer yezrs．Where is als－a nem， ber of ：arked imorovement in tire ar ingn al
 chins，lirana diatr，and stram catiog ma
 notised in the implern aty fenerally．though the compotition lits estainly geown keoner

 to simplitication．

In the Palace James Rolserticu，of the D．miaton Sif Woris．Tomato，exhobts a spleadid abl comples aspormicas of mill dati gang wats ifu redectom embraces
 ervalar aisu on extabithon as sk fret in lameter．Tues matemalen tontin carculat san，ture and a hali iset theliometer，ta one of their brot sampies．Anouses the cross－cut mus，phe entirleit thy＂Jupheven Gatatio， with dis sign legistered，is chamed to be a areat improvement in this class of ands， frow the pecular construction oi the eseth． Reates this collecton，there ta uase other in competuion in this section．

Ja nes Mekelvey，St Uatharines，exhaboss a murtable cream sutheres．It contares she⿻⿰丨丨八又贝 ing for tweaty four pasa，equivalent to milk or tix mos．There ate two the cham－ wers an the top，nith tulera casising off aur－ plus water A thermometer is placed on the inside to regulate heat The same gen． ticman shows a refiligerator with ehamelled bottom

Inhert Wiket，of Yorhilhe，exhibits a hant working machise for cialling matuls．

On the grounds O T．Springer，Wehmes tou squalc．exhibits a selt－regulatus usod mill in opelation，intendw fon cither thacoh ung，puaping at other wotk to whach horse and engiae power are aroblicable It ocen pies the highest point on the grourd and is itseif about forty feet in herght．It is clam－ ad that it can be construcied at a cost of about S300．

Heugniu Mitchell，Ilam：Itoa，exhibits a steam or horse－power cordwend tawing ma－ chine．It cuts both ways，and the chhibitor chains that it is capable of catting is cords per hour

1．D．Sawyer \＆Co．，Mamulton，exhint a dramos flongh or ditchang machme for drains

Mcitherson，（Hasgow \＆Co，Fimal also exhibit ome of these same machines，but as yet neither of them have been pat in opera－ tiss，and consequently ventoms have no op． prtunity of judging of there real merits The pri／e cards are also upon them，and there is no probability of a test now．

The number of double sharetrench－ploughs min be gionam is but smail Those shown have sron bean，but woolen haniles ．Tohn Wiatson，of Ayr：B．Bed R Sion of St Gerce；and Titrulbuli $\$$ Co．．Mamiton，are the evhibitors

There are s unt sontetestangle－furon i－on pilughis of vari－us patteins exhbited Eumb of chese possesy an almost extravagant unount of ornamentation．Alaeir zeal m．rits as milenents can with no degree of antisfaction be ascertained．as none of them rec．ve actual test Cpon what prin ople the judyes are enabled to determine which is best it is diffi． cult to laow．The evhibitors in th：suetion are chiefly residents of the neatern part of Ontario．
The nuabber of irnu beam ploughs with steel mould boands and wooden handlem shown is momswhat in excess of the preceding section，and，generaliy apeaking，from the same satablishments．

The anmber of wholen ploughs shown ay－ uars to keep pace with former vats in quality of tinish．bit is unchi decreased．
There are ouly tirce or four ging ploughs shown，all differion ic pattern Exeh o the in matain three pioughs in the gang．

Jonu Itubinsvil，o．Boveriey，ailit Bell $k$ Som，of St．Feorge，are tise suly exhisutors of donine mond plougha．

Jomn Grey is Co．，Glasgow，Scotiand，is the only exhibitor in the section of tro fur．
 ered it of sulli－ieat met：in entethe it，to a lisst prize

Thereare mily thar two hots．－ron cultiva． tols．liach of thees are or differen design from the othors．Tin chef pouts of dither－ ence among them consures at the method of raising the teatiz from the yround during the operation of the implempat，whale the arjpast－ ment of the tecth anel their relative psitions vary considerably．The exhibitors in this section are James Linton，of Clark tuwnaship； John Monnce，of Darlington：Isanc Westcott， Bowmanville；and Thomas Clarke，of Hamp． ton．

Of two horse nimplen cultwators there are some half－dosen on the aroun＇The prints of diffrence in these ale even．more turked than in tho wase of the rron ones Phe treth of these are considerably ruich in construction Slluin．Fihott，位
 W．R．（irey，of Dundes $W^{*}$ Beil \＆Sion，of St．Licorge，aul John Borer oí Damdas，are the evhilitors m this aection

Some ten single horse cultivaturs，hali of thim wood and the rem inalet iron．are ex－ hibited．No two of these appear to be alike in desion or finish，yor iniced in sarcely any particular，thomph there are features is several of them which conraeul themselves These are chiefly turneni mat from establish． nents in Hamilt m，litt，Ayr，Flazboro， and＇Bowmancille
Wim．Fenuic，Poronto，evhilhts ata irna harrow of fifty teeth．
Woikland \＆Rolerts．of Seneca，exhibit a rather novel style of iron harrow，liuk－ tormed，and a；apted to clod breakiay and weed gathering as well as levelling These same gentlemen exhibit a sixty．tooth． ed iron lasasuw：
John Didge，of Ottawa，Kirkland and Roblb，of Indiana，aud Isaac Westcott，of Bowmanville ate also exhibitors in this se？ tow．Their articles differ but little in decign， and are adapted for working with a dranght from erther side．
But very few wooden harrows are si．own． and these are by W．J．Jardine，of tial：．Jas． Read，of Brantord and A．Copy ${ }^{2}$ Haanl－ ton．

Win l＇well，of Hamitom，is the exbibitor of a nen double barrow and cultivator com－ binet，the prineipal advantages of which ap－ pear to be simplicity of construction and linhtiness of diaught．It is constructediu iour parts，auli，as a harrou，contains fifty－ eight tecth．By takiog of the two wing and turning it over，it becomes a cultivator， with 1 wentretight tecth；while the two wiegs ni the harrow，combned，make a single－ horse harrow．
J．\＆S．Veso＇s．wi Joliette，exhibit a combined sower，hairow and roller，which appears to be one of the most complete inn－ ple．urnts on the grouade．It poseesars all the advant ures of a grain drill in addition to that of a soller，sand is on constructed that the roller can at auy time be worked without the use of the other portic $n$ ．
Only three wooden－rollers are shown．Twa of thicae ac double and the other are trujte rollers．
 Ire $\cdot$ vis s＇unp－tstractor on the groumels It $t$ ands on thece less，tad works with a two－
 ver．
The name of Dir．J．Abell．Woochondge， mabufanturer of agicultural inaiknterita，in not seen in the list of exlibithts；the ahseaco is owing to presare of busines．s．

Alont one dozen grain drills of varrous linds are exhibited.

John Watson, of Ayr, is the exhibitor of two va ieties of hills. One of these is: combined sfed drill, adiaptel not only $t$. seeds and grains of all kinds, but containing allo an ap irtment for sewing plaster lime on uther ipeprations of that, description The meane of wit of the two is quite dafferentintil they reach the spouts, when grein and the plaster reach the ground togethar Al attachment exists at the back of the for mer for sowing of ser d . The year is so :ur:anged thit all three may be sown simul tanecus!y. I's peculiar merits obtained fon this mach nette tirst prize. The other dial senown as a sugle drill. Its peculiarity is that the cian e of gear for grain and seed in effected with hime meration, and the range of the epoute can be made suitable to different encils by occup ing a straight or zigzag pesi tion.
L. \& D. Sawyer \& Co., Hamilton show three drill. One of thene is a double-feed drill with ten opouts. It has a seed sower attached in front, which may be workeil simultaneou ly with the grain sower or not and ensures the burying of the seed. Cyon this drill is a d'stance guage by which the ex. set amount ofspace so ${ }^{n}$ is accurately no,ted One of its part"cular advantages is the peseresion of a donble distributor, fiuer graina $t$ eing unoved out by aid of smail gear. The other $t$ on tiller chetly from the foregoins in having bat nine spoats insteal of ten.

David Maxwell, of Paris, is also an exth b. 1tor of a drill of the varicty known as single ©'stritutor.
J. J.awrence \& Son, Palermu, J. P. Mil iingtom, Dunfas, who exhibit two aud Joh. Westlich of Iope, complete the list of exhil, i:ors in this section.
Wm. Walker, of Westmiaster, exhibits a seed drill for sowing two or more drilly oi nurnips, mangolds, orother seeds, at the same time. It is intended for work with one borse, with traces only, or shaft and traces The se d-bax s, drill rollers aud spouts:are ad just:d hy antomatic motion. A graduated cace also indicates the width of dills to even the fracti nal part of an inch.
John Wa som, of Ayr, exhibits two kinds of drills of chis class, one of which is of Sicot tish invention. It is very compact, and is chiefly furmed of castinys. Its peculiar merits and cheapnes of construction commend themselves at once, and it has taken prece ience over all others of $t$ is pection in the estima ion of the judges. The seed feeder is driven by friction of wheels. Thotber one shown is constructed on the sa n. prin iple, with this difference, that the sced distr.butors are sorked by le!ting inste.ul of iriction.
Bell is Sum, St.George, are alen ahihitors in this section. One peculiarity of their machine is the arrangen ent for thr wing thic seed distributor out of ge ar while the drill is in moti in-an advan'age in turning at the end or the drill.
Thain; of Guelph, shows aucticr drill of the same design, with some litele difterences in adjustment.
Of single drills for hand use, there are three or four exhibited of varying merits.
Something new in the way of implem?nts is a drainiz $g$ plough, or ditching mashine, exilibited ly Carter is Stewart, if Aylmer. It is adapter for open litching, roal grading. and sub soiling. The machine, or implement, is simple in cons:ruction, aud substantially put together. It consists of a plough and horizantal revolving plutform. by which the carth is carrues ux feet from the side of the plisugh. By reverging the direction of
draught, this machave win make a ditet twelve feet in widht, it will. however, it required, make a inten there feet wide This is but unge, of se etals zeps that is worke. by a domble zeam. iateser sizes tor the ce or more harsts are rade, aod are adaptoll for 'a :moniage purpיses
The dieplay in the seetinug of nowing and reaping machines ss realy one oi the lareest and hest yet sten. (af single mowers. thipre re sume $t$ velve on the groumls, and promi. urnt amoné the exhbitor, are nearly all the lealing manaftetures and pizetitiers of former years
L. D. Sawyer \& Co., of Hamilion, have two of thein muwers un the grounds of g mi. ar const netion, liffriug waly is geurral tinish. They are exceeflingly compact in censtruction, being eritirtly cast met.Il, with the'evetption of the tongle
llaggart \& Bros, of Erampton. show a nowe of much the same make as the fore going.
Juhn Forsyth, of Dunc..J, sbons a single mower with a body gaia- !. "The light Habbul" is the one exhintud
Brown \& latterson, of Whithy, ate the exhititors of a highly timighed si:gle mowns, which on acsonis of extra tine tinish has been thrown ou: of competitiom. It was this make of moner which oibtaneal the tirst prize at the competition held at Earis last year natier the- auspices of : id: tgicu tural desociation. it contans a pe cul ar alvantias in the constratem of tate guard to each tooth, wiach is mote.be fo. dauble calge grinding.
A smpte of a new macin ne of an Ameri"an make, entiled "tise Kirby," atinacts much attenvion from the pusseserod of an aid rantage :a the cbange of porition of the knives fr $m$ a horizontal ons to ary incline without cessavion of work
fell \& Som, of St. Ceorse evhibtan Ohio B ackeye Hower, with the body of wool, and an admir.ble arrangement for changing the position of the knives.
John Wateon, of Ayr, exhibits an exceed ingly compact mower of iron wita gearing simpl: The whole frame is cast in one piece. Motion is sot up with four sets of wheels. The frame is the "Backeye" sim plife l.
1). Maxuell, Paris, shows a mower on the 'Sprague" principle.
C. H. Grey \& Co. braverton, exhlit a "Siprague" mower, wh:e has recen ed the julges' first award.
Thompson \& Williams also exhilit in this class.
Of single zeapers there are the on the ground. 1. D. Sawyer \& Co. of Hamilton, show one of the Johnsou single reapers similar to those exhibitra by the at previous fairs. There is, nowever, an improvement adied this jear, in having an attachment called a fool.trep, by which any particular rake may be bryaght down to remove the sheaf at any time. A shicid is also added with a view to gather Joderid grain.
Brown \& Patterson, of Whithy, show one of their highly finizhed single reapers, which is excluded on account of ex: ra finisl. The machine exhibited is of the same make as that wheh to ${ }^{3}$ the first pirze at the test of macbiness it Paris last year, though certain improvemonts bave been efirested since that time.
Thomas \& Williams, oi Mitchell, exhibit one of the Johnsou re:i $;$,rs One of the advantages caimed for the mach'ue is the arrangeaent by which ilic rakes piek up lying grail, otherwise too low to be cui;
otherwise it dues not vary from that a abibit. ed by Bro:nd \& Patterson.

A 11 mis, Son it co, of Brajtfort, compete ia thin class. The te shewn is a "Burdiek reper. It has tio thiving wheets.
 heht, as a mathas, is strongly conetrented.
Thain, istant, © Lo, of chelph, shew owe the lohgson $r$ apers.
There are no less than seventer combed reapers and mowers. Joho Forsith, of ibendas, cqinio ta two, with on'y io stight diference in the spplication of the nower; one is "Balls Onio" auil the other "Forsyth"s Hanceter;" with thase the Juhnson riks is used. On one of these he took lirst prige as a coulned ma,hine at the test in Pa is, and also tahes it on this oceasion
L. D. Saryer : Co. show thrce macianes of very pretty wurkwanship, with some min ir improveurenta ou those of last year.
John $\Pi_{x}+$ son, of $A y r$, shows one of his "Hair ©lepper" combiuel machiues, of excellent wo.kmuship. One feature winch appears to be peculiar to this machine is the facility with which the driver can, while the machise is in motion, tilt his table.
A. Farris, Son \& Co., Bratford, show a Kiby nmbised.
B. Boll \&Son, of St Genrge, hwe au Ohis Bucbey nathine nith eome improvements, :mong which ase Brew wher aftemty
 seat.

Join Fi. Grant also Rho st tro mathines, whinate not ennietitors.
Iohen Seott, Culedonia, shows one machine.
Noan B:os, of Ingersoll hazatan el bo atd $5-t$ n.shed mashine un the gruand, but it is not in onnpetition, as they anderstond an arrangement had been arived at not to give pizes on the machines withort a test
Josc (h) Bros, of Milton, show a Buckeye with Dodge rake and cisaugfable seat
J. Laurence \& Sons, of Palems, show two machines, one a "Ball's Ohio," aud the other a Preckeyc. They both mow sul reap the same width.
Haggart Bros., Brarniton, ehow au im. provea "Ball's Ohio," with an iuproved Dodge rake. The arrangement for tilting the tathe is somewhat pectifiar, and is clamed to be an advantage.
Of sultey horse rakes the competition is limited $t$.s seven or eight articles. Less difiercace is apparent as regards the construction than in almost any other section of im. plenests Prominent exhibitors in other sec-ions are also to be found in this.

Hase :akes withont wheels do not atpuar.
Guly two pea harwesers are exibibited. These are shown by MeLeod \& Mills, of Ro. gervile. They are aunted for atta bataent to a reaper or mower machne.
Unly three horse pitchiorks are siown one by Audrew White, the others by 2 -ter Gaast and fessie C. Cramer.
A mamure fork with frame to wirli on, for loa ing manure by horse p wer, is sinow, by W. Fraser, Gitenwilliams

Duvid B iteman, of Scurog, shows a grass seed sowing machine for namd uss, a lapted fine clover or timothy, and can he gansod to sum any quancity per acre. It 19 carried by a strap over the sower's shonllers.
Strax entters are exhibited in great abua. dance aud variety, nat the competition is consequently keen.
There are eight ront cutters shown. These inslade foar varieties, suning whilh are the cele!ratel Englieh root cutters.

There are six grain crackers, of two varietios. Some little difference exiats in these, out in unimportant points,

In cider mills and presses fcombined there is scarcely any competition.I

There are seven different variotios of horse powers, for genersl purposes or farm use, several of whish possen: some minorimprove. ments, chiefly in the ar angement and sim. plification of gear

Five two horse team waggons are shown Besides the perfection of finish which is noticed in one cr two instances, there are some very useful improvements effected in the whippletrees, brakes, boxes, coupliug, \&c. This section this year is fully up to that of last.

There are several sections in which prizes are offered but without any competition. In some cases, as in that of light market waggons, there is only one shown.

Noxon Bros., Ingersoll, show two drag. saw machines, ore intended for two horse pover and the other for four-horse power.

McPherson, Glasgow \& Co., of Fingal, show a Climax threshing machine and a vibrating machine; and Glasgow, McPherson \& Co., of Clinton, show a Climax threshing machine. Both of these firms take prizes on all the matines shown by them.
L. 1D. Siwser \& Co., Hamilton, show a vibrating machine, which is exceedingly vell finished, and possesses the latest improve. ments.

John Scott, of Caledonia, is the exhibitor of a vibrating raachine.
Eaggart Bros., Brampton, show one of their well known threshing machines.
L. Butterfield, of Brantford, exhibits a champion separator.
L. D. Sawyer \& Co., Hamilton, shew a very finc clover thresher of first-class workmasship. They have no competition in this class.
Wm. Gibs, of East Flamboro', shows the only drain tile-making macbinc. It has been in operation on the grounds, He likewise shows a collection of drain tiles.

Bulmer \& Sheppard, of Montreal, have a brick-making machine in full operation on the ground. It is worked by two horse power, and is the only article of this section shown. It makes l,000 stock bricks or 2,000 slop bricks per hour.

As usual, there is a number of patent sates and farm fences on cxhibition, of rary. ing merits and of new designs.

Churns are not as numerous av 14 unt, but are chaelly of new design. There is, liow. ever, quite a variety in the methols of apply. ing motire power in their use.

## NATURAL HSTORE.

This is a department of the exhibition which deserves the greatest attention, and as the tield afforded by Canada is very extensuve, and has not yet been sufficiently ex. plored, we hope to find the researches of paturalists more largely exemplitied in future exhibitions. We bappen to know that few men are better qualined for giving an impetus to studes of this kind than the Governor. General, and if, as President of a Natural Ilistory Socicty for the Dominton, he were to give his influence and expernence, the hopes of his friends in England who are in. terested in knowing all about Canadian minerale, fossils, plants asd howers, Fould not ve disappointed.
The exhibition of Natural Ilistory objects was by no mesus large, When we take into consideration
student, yet the specimens presented were desorving of the highest praise. It was noi casy to get a good view of anything, owing to the crush of visitors in the gallery, who were more bent upon seeing as much as pos. sible than examining anything critically, and so we must notice the objects in the order in which we were able to get a glimpse of them. First of all there was a case of native birds' cggs, exhibitod by Miss E. Gourlay, of Ham. ilton, and arranged so that the size and colour of each was brought into contrast. The same lady showed a woll srranged case of native insects, but they reere not so good as a large collection ahown by Richard Kyle, of Dundas, who took second prize in this class.
Joseph Amett, of Hamilton, had a good collection of native birds and animale, stuffed, to each of which was attached its common and technteal name, and so classified as to show those injurious to agriculture and horticulture. The collection comprised a groat variety of wood-peckers, hawks, blackbirds, jays, and a very tne fox, in the act of carry: ing off a duck on his shoulder, having the fowl seeurely by the neck in his mouth.
Ho $\quad$ crer, Quinne \& Giblons had a muth larger cullection, which included about one hundred and fifty specimens of burds, and about a dozen animals Of theso there were a great number of water fowl, and the herong were very tine-a great blue heron looking very well, but without having a very hungry appearance. In the centre of the stand was a stag's head, above which was a large snowy owl in the act of killing a rat, and on cither side was an American horned owl and a snowy owl. There were specimens of pintail ducks, dabchicks, hawks, bitterns, divers, \&c., and a tine gar-pike; and in a separatecase was a collection of squirrels and weasels well arranged. It is necdless to say that all these attracted great attention, for there was no part of the exhibition but was crowded.
On the same table as the specimens already mentioned vas exhibited a splendid block of amethyst, contributed by John Carvil, of Hamilton; and close by were blocks of imported rock salt, exhibited by Wm. Hendrie \& Co., Hamilton. The rock was very pure salt, and looked better than most of the Cheshire salt, but not quite so white as some we have seen from Duncrue, in Irc!and.

Next we came upon a most utatesting collertion of feing aud mossis, exhibited lys linhent Mearns, of Puronto, and arraugci within the le a is of a portfulio in such order is to form a w 'y pleasing contrast in shape, si/h, and edor TLey included ferns from , ll countries; while the collection which Miss Jave Choate exhlited of native plants arrauged in their matural familics, and must have cos' no cud of labour in collecting and arnanging.

There was a large collection of native insects exhibited by Mr. E. Saunders, of London, Ontario, which included every variety from the smallest beetle and butterily to the largest moth, and the number"was something astonishing.

On a pillar in the gallery where this exhibition is held, is suspended an historical chart, or North American historical treo, giving the full history of the Dominion of Canada, which must have cost J. P. Merritt, of St Catharines, the exhibitor, a great deal of study and labour. Ho also showed a map which he calls the universal choonographer, that is a great curiosity, but not very intelligeble to an ordinary spectator. The principlo of it, however. seems to be that from the centre, represeating the beginning of mans s existence on the earth, there radiates all the important ereuts in history, and lines and
circles separate them into classes, showing how each occurrence is consequent upon something in the history of a nationor a people that has taken place prevoualy. The work is ingenious, and the study and labour must have been immense that produced it. Mr. Merritt also exhibits a decimal enumer. ation table, which, like his otber produotions shows the ingenuity of his mind in matters of this kind.

Altogether, this dopartment of the exhibition is well worthy of eareful inspection, but that was impossible in the crush of spectedtors.

## MACHINERY.

This departmeat, one of much importance, will this year greatly excel the exbibition of la'st year. The value of the machinery al. ready here will be quite equal to that of any preceding show. The disposition of the arti. cles is such $2 s$ will oonvey to the visitor, at tirst, the idea of bad classification This, however, is unavoidable. Tho palace iteclf would, in the department allotted thereto, be wholly inadequate for displaying the large and massuve machinery; and some exhibitors, rather than meur injury to their articles by exposure ont of doors, have erected bidildings for their own especial uec; and owing to the fact that no regular sheds other than the palaco have been placed at exhibitors' disposal, articles in the same class have necessarily been separated.
North-west of the palace is a frame building $30 \times 24$ feet, entirely filled by machine tocls and wood-working machinery manufactured by McKechnie and Bertram, of Dundas. The collection comprises 18 heavy machines, having an aggregato weight of about thirty tons. As the workmen are still engaged in putting them into position and the tickets are not as yet upon them, a description thereof is deerred.
In the palace the greater portion of the machinery, especially the heavier kinds, is situated on the ground floor in the northeastern section of the building. Sewing machines and light machinery for domestic use occupy the southern gallery up-stairs. Entering the building at the eastern doorway and turning to the right the visitor at onco enters the space allotted to this department, which already contains a large number of articles, some of ponderous weight, from those of heavy milling machinery and railway engine and car castings down through the grade to such as boring and turning machines for wood-work, small castings, saws, toole, \&c, Of the articlesalready in their places here, the following may be enumerated:-
The Great Western Railray Company have a platiorm on which they exhibit a large assortment of castings for railvays, railroad cars and locomotives, of which the major part are finished, while the unfinished 28 woll as finished samples are exhibited of certain artieles. The heaviest piece shown by them is a patent outside cylinder for passenger engines, which is cast in parts ; and another, an inside cylinder. for freight engines. The former these weighs three tons. The work upon these and other articles is wholly done in the shops of the company. with the exception of the iron castings. Among other articles are a finished crank-axle for inside cylinder of engine, whech, though massive, is cast in one plece; a finished connecting rod; duplex safety Valve, Fith Robinson's patent regulating safety-valve attached; reversing lever with Robinson's graduator attached; bottlo jacks; locomotive clack-boxes or check valves; Bris. con's patent bell.ringer, worked by eccentric motion of ongine; hoary finiehod driving axles; case of finished brase castingo, in.
cluding a complete set of locomotive engine mountings; brass steam whistle; screw jacks and piston rings; and the latest patent ruversible car-seat, liuishen.
Joln Lamb \& Son, of Ottaw, exhibita lath machme with patented arm. They also exhulit a band-saw machine.
Goldic, McCulloch \& Co., of Galt. show a collection of six wood-working machines, one Shive's steam engine governor, and a "l'rimmer" smat machine and separator combined. Of these several, the revolving. bed wood planer, for smoouhing boaris, commends itgelf chielly for being more powerful in the feed than can be obtained from a eystem of geared rollirs. The windowblind slat tenoning machine is a unique prece of machinery, and, though small, allows of any length of material being used.: Their self-acting shungle machine is, as the name indicates, a self-adjuster and adapted to cut any thickness of shingle required. The remainder of their list includes a double-cope tenoning machine; a shapng machine and a hand mitre machire.
Wm Kennedy \& Sons, Owen Sound, show an iron frane circularsaw.rigg, with reversible action by friction ; and a Leffel donble Tur. bine wate-rwheel for mill purposes.

Barber © Marris,, Meaford, show a "Canadian Turbine" water-wheel, invented and patented by exhibitors The one shown is a twenty.inch Turlme, though they ate made of sizes ranging fom sixteen to sixty inches.
F. C. Kirkham, Ancaster, ex!ility an inproved "Traverse Ginder," for grinding evttou and wowlen cards. It is calculated to grind any wath of card frum 24 to 48 inches, is noiseless in operation and ea-eedingly sta..ple in construction
The Bowmanville Machine Company have a wood-planmg machine with the revolving cylinder rollers exhibited, as well as a Leffel double- Turbine water wheel of 20 -math size.

## MACHINERY.

This department, though not recoiving much acesssion of neavy machinery to day, has added a quantity of the lighter kiuds. Within the l'alace, particularly, this is applicable. Se 'eral articles entered in varions sections of this class have not as yet arrived, and will not, in all probability, do so now, as time is too short to enable the same to compete.
Inside the palace W. C. Numn, Belleville, is the exhibitor of a new chemical hand fire engine. mounted. It is intended to be worked by four men, and may be cither used with water or the advantage claimed for it is that it is so very portable, and is ready for immediate nse, the acid used possessing peculiar extinguishing properties. It will throw to the roof of any ordimary builling. They also exhibit a portable pump which serves the double purpose of pump aud garcien engine.
Clrarlen Black \& Co., Hamilton, exhibit fve emery grinders for use in grinding down metals in almost every capacity among machmists and iron manufaciurers. They also show chrome steel in bar.
Kitson \& Fielden, Ancaster, show two eard setting machioce, one of the Eughsh pattern and one dinerican. Their apparent complication and the peculiarity of the work done caure much interest to visitors; the operation of inserting wires in leather bands, bending, fastening and cutting all being dene with rapidity, exactness and great neatness. The uses of the material when made are varied. They also show a quantity of card clothing.

Gurney, Ware \& Co, Lamilton, ex- i hibit. a large collection of scales of all sizes, betnecu sixty and serenty in number, comprsing counter, platform and double column dormant sedes. The finish is first-cla-s, aud the varicty and designin kecping with improvements i. u'her depirtments of me hanies.

Wm. Mclean, Peterboro', exhilits an w article lately patented. which is entitied a station indicator for railway cars, stembunts, de. It is box shape' and contains tivo rollers inside, on whel. it a canvass containmg anmes of stations, and either side the dis. tance from main stations on the line. There are exhibited through a glass front. By pul. ling the cord at each station a bell rings, and the change takes place instantly. Any num. ber of stations may be given on the cantass. The one used is adapted to the Toronto Branch of the Great W'estern Railway.
W. Millichamp, Toronto, exhibits a small assortment of eteel skates. The same gentleman has several beantiful show-cases on exhibition.

Yesterday referenee was wade to the build. ing containing the machi ery of Mcliechnie \& Bertram, of Dundas, but the machinery was at that time scaveely in position The lot comprises a large radial dirilling ma clrine for boring in iron, the peculiarity of Hich is that the drill an be moved in any direction by a swinging arm, so as to operate upon large wosk without shititius its position. Its weight is over four tous. The next ma. chene is a twelve-ioot iron planer, with selfacting cross and down feed, weighing over six tons. Next in the list is is fore foot grared drill, with self-actity feed and powerfally geared; while immediatcly adjacent 21 c twu small arills for light work. Next is 2 tive and a-hali foot iron phaner, of similar construction to the large one. lext is a tenfoot gandlathe, which swings twenty-four inches over the bed and thirty six inches in the gap Next in rotation is a fourteenfoot bed engine lathe, with rod feed aud screw outting complete; also cross feed, aud self. acting. It contains all the latest improve. ments, and is certainly creditsble to the skill and ingenuity of the proprictors of the Canada Tuols Works.
Opposity the foregoing, hat in the same building, they exhibit a collection o: wood *orking machinery. The tirst one of the collectrou is a planing and matching machine, which planes both sides of a board at once, also tongues, grooves and beads at the time of planing, thus turnims out the work com. plete at one operation. Alljoining this is one of their ordinary phasug and mateling machines. They also stow three machines for sufface planing, of various sizes, plamng boards of widths raugiug from one meh to iwcnty for inches. They also show a three-sided monling manchine and a one-sided noulding machine. - 1 lutre car murtiong maninu and 2 small sash and door morticioy mathine are next in the list. A varuty moulding machne, for plaining straight or irrofliar surixees, is the last of the collection exaibited. This exhibition of machinery is without doubt the largest ceer mate ly any one firm in Csuada, and reffects the highest degree of credit upon the exhibitors, who, regardless of expense, supplied all the matarial for, and constructed the building containing the assortment, without any aid whatever from the Association. The shipnent of so much heary material, and its reception upon the grounds in proper time for being adjudged, was of itself agreat undertaking. The value of the collection is placed at over $\$ 10,000$
Jones \& Co., of the Markham Eell Fsundry bave six steel amalgam bells on exhibitios,
in a shed orected for their cspecial use. These include sizes from forty five pounds to three handicd and fifty pounds. They are intcnded for farm, school and church purposcs.
In the machine shed in the du.livity west of the iade to whin cferuse was made yesterdu.. westhing was but into proper position at an eals har this moning. At the anthern joition is a loiler, bodded, for the purpac of wiotuting the engine and maehinery in the hulding. It may be mentioned in : mnertion with this that the frel used is petrule un-tar, which from test, proves to be cheaper for this purpose than coal. Fire is started by wood until about six pounds of steam are obtained, when the tap on the tuke connecting with the tar cistern is turned, and this substance passes into the furnace, and is scattered by an application of steam frow a larger pipe surrounding the aperture of the small one. The engine is exhibited by Morrison \& Clark, Hamilton, and is a fifteen-horee power stationery cugine. Belting conuects the motive power with a system of shafting which propels the band saw and lath cutting machine shown by theHam:Iton Tool Company, which were noticed yesterday. 'the only other machine in this building is a ~ortable drilling machine, suitable for machine slops, which is exhibited by the latter.

## SEWING AND KNITTING MACHINES.

The department devoted to sowing and lenitting machines in the gallery is as yet incomplete, as some of the intending exhibitors have not arrived with their articles. The eastern section is now occupied with machines fom Whison, Lockman \& Co.'s sowing machine estaihshment, Hamilton. Tbey show thirteen machines in all. Of these there are four manufaturmg machincs Among the remaning nome are three fill calinetcase machices in walnut, with neat carving; four hali cases, and the other two common. Their hand power attachment machine, open case, is deserving of especial notice. The peculiarity consuets in the ability to transfer the motive power from hand to foot, or vice cersi, without any cbange or impediment in the motion. In addition to the foregoing, they are the exhibitors of a case containing all the pieces of a serving machinc in both a rough and fnished state.
The Gardner Sewing Machine Comijany of Haniltun, occuly the central platiorm of the wing. A beautiful canopy of bamers are swurg occrhcad, prominent uron one of whin in a painting oi the factory. They ex. hibit si,ten half-case machines, one full cabinet casc. and a miniature model sewing machinc. ihice of the machines ore for light natuacturing purinewe; the othors are faty machines, s he of whin yaty from the vibers in persessing an extension leaf to the staud.
A departnect. is assigued to the Osworne -erving Mahint, Compay; of (ruclph at the westen part of the wins. They will have tinclve machiats on exhilition, omy aportion of which has arrived. Reference to tham, or to others of the same depazeacst, will, thcreist, ve inferred.

## sewrig and kimting machinis.

This department which was yesterday more or less incomplete, has had several important additions made, and is to day cne (f the most complete in its arrangement of any in the building. At no previous fair has there been anything like the artistic ornamenta. tion among the various assortmenta of ma chines, each exhibitor apparently endeavouriny to excel the others in the attractions offered, ether than those possessed by the
machnes themsclica. is atited yesterdas, the reviur nachites ccupy the centie, cither side, and southicra pertion of the southers sing in the gallery of the palace. Indintion to the culoured canopy which evers the Gaduer collection of machines in the ceatrf - which is itself attractise-they have aminiatureseving machine named tho Governorerienchal, woiking under glass, the total weight of which, including the stand, is only one peurd aud a balf. The machive, exelusve of the stam, weighs but twelve ounces, bat does its work perfectly.

The Aymeton Manufacturing Company, of Hamilton, nceupy the extire portion of the soathery platform. From side to side a cau. opy of red, white, and bluo expands, beneath which a line extends bearing upon it samples of the work turncil of from both dsuitting and sewing machines. The back. ground is equally ornamented with the upper part, and containg number of paintings and a large mirror, with the erhibitor's name placed uprn it in transparency. Cpon the plationn which is carpeted, they extilitsis sevine marhines and six knitting machines in operation. The former are all family machines, bat are adopted as well for light mamfa, tuing work, such for instance as work in leather for loot and shoe making. Thev are all half case machmes. One of the novchto st of the colle the works all cpen, the notwe power being a small steamats.chment, mactual operation on the phatform, aud which is manufactured and sild m connection with the machines at a modecats cost. By this phan, which is shomu to be entiely practuable, the domestic work of sewing is redateed to the minimum ot work, os in reality to a pastime. The furegoing are situated at the western end of this platiorm, while the east is ocenpied with six of ther lenitting machines in operation, by which a great variety of work is done, from children's stockings up through the grade to men 6 drawers. Farious kimds of chidiren's clotang, as well as scarfs, Afghans, \&e, are with rapidity worked off. In the central pari two orchestrans are played at intervals.

The Guelph Sewing Machine Comany during the carly part of the day recerved tae remainder of thed thetines and placed them ia foskon is the part as igned them, as montiond bertathe. The collection embraces elerts in all oi these thete are three kinds oi 'ataily machume, tat laüns an suprosed machne just brusht out, the peculanit: of Which coustist in i's humbg a selif-adistiar tension, wite en adjatabje treade a lapto? to any mosition. These are sight of the whll Lnown "Osbom Maehner" among the lot.
iv. C. Nunn, Bellevile shows Fomand $=$ seli-fikisg tucker and anjustabie l.emmas atta inture in operation pon an "Usi,un" sewing anchine. The prticuiar al antage chamed for this inveation ir that it do sar ay whth the marking for torks, and folis in sieau.
The Guelph Sewing Machue Cutapany also cahibit a well docized sewing manhine, full case, of rew dicsign.

The eanda Selmg Machine Company occupy a position on lie somth side of the (astern galiery. thar sauples include sceen machines, all oi wheh are talf cave exaeptone. The peoulianty of this machine is ity siniphity of enstratiom, aed quet movement; paile ios appeatano mdicates durability. There ts wiwituer gea: aor cams alout the mashins. ©he whole number of patents on it at prezent are at:an. The thuttle is entirdy distinct from tionse generally in tse.
The Flozeuse Sewing Machue Company of Mas achusce ts exh lit thre. of therr ma.
chines, one oi which is a full case, the other two are plain. One nf these is back feced and one cross feed.
II. Bailey, 'loronto, centibits foar of Jamb's Family Kinithug Machines. Ono is a larre manufacturing machne; ftwo are chiet!y for domestic uses; while one is adaptel for especial grades of lades' shawle and gentlemen's scarfs.
C. W. Williams \& Co. of Montreal, havo six machines on exhibition; two of which are manufacturing machines, tho others for domestic use. They also exhbit a beauthful case, with pearl inlaid in walust.

## METAL WORK.

Rusumed from gesterday, we obacrve in this section a patent "Car Coupler, by D. Bradford. A "Hydraulic Test Pump,' (in model). by James Aorrison, is notuceable in this day's exhilition. In this secton is also a most ingenious piece of mechansm for pro. ducing an illumanating materal, in the opera. tion of which by a conbination of oxygen gas and gasaline the illuminating gas is produced.
Mests Byers \& Mattiew, Ganmonue, show a sample of wroughtiron axles. Mr. Tsaac Mills exhibits samples of "Weatherlief and Door lialse" and ventilator. Webber \& Co., Hamilton, and Alexamler Smith, Lonion, exhinit a collection of carriase pats, tith wheds, body loops, and tepps. A new railroad spike, echibited in llenry Rodger, Chippawa, appears to poseess adrantages which should recompend its echeral use. A self acting "ear-coupher," by Dr. Wright, oakville, hos been i:a we, and works with adrantage and safety.
Our notice of stoves was, of course, incomplete yesterday. We must refer again to the display of Mr. A Coyp, of Hamilton, which, properly placel, is not surpassed in the ex. hibition. Mr. Hall, of Gamilton, shows a very tine assortment of tin and japanned ware. A. \& C. Gursey have also a section in stoves that calls for remark. Turnbull $\$$ Co., with their stoves, exhibit a vory fine collectoon of enumpllop-ware, rezisters, saucepans and (purdon, ladics) spittoons This scetion is realy attrattive.
In tian wh, the whention on c.et $\cdot$ thon of Mears J. M. Thas:n \& Co., llunaton, 1

 twny ons mis: ? An ranaphase a hackuesed
 th.' 's. II lider, Obizwa, exhibits a fig untic "ports, h. hot-air furnance", and a variety of "fo ' $\because$. vers,"-the hast a desideratum of the te ctaportabe br: Brailey, Wooristock, alv" ahibies a "hot air generator," conalstur; oi a spual stove-pipe with it wh uriluary stert-1ron case, an adaptation thit s.eas to be complete
C Andrew, O Co, llamilton, show an asgortment nf "wre-pork' thewer stands and baskets, very nomily constructed, and com mendiny itseli by its ornamontal sumpheity aurl utifity.
In fire-arms the oniy exhibitor is Mr. W: G. Rawboue, loronto. His contributiou comprises several ritles of special excellence of his own manufacture, and several of Westley Richards' patents. These, witl a selection of revolvers and a beantifully omamented hinting kuife, formed a point of interest to sportsmen vis.tors.
Mesars. Rutheriord \& Co , Kamilton, show a large assurtment of ghas-k are, jars, bottles and vials.

## MaNLEACRERES.

 display of manufactured articlos, there was evident at once a diticulty in pro eeding with descriptions, as the stir of [1"eparation was rife on every side; compartments only parthally filled, and exhibitors busy unpacking, cleaning and arranging. In some unstances. however, it was phssible to particularize, and in these we give the following observations:
In pottery, the only complete collection is that of Mr. R. Campbell, Hamiton, who occupies a considerable space with a large and varied assortmont of this ware, comprising sewage pipee, from tho narrowest flue to a conductor 20 inches in diameter. The collection also contains specimens of culnary utensials, with specimens of gut and bronzed T'erca Colta, chefly ornamented. the trot manufacture of the kind in Canada.
There are a few artscles in marble work already in place, but the aesortment is evidently incomplete. The exnbitors are Mr M. E. Kire, and Mr. T. McComb, Hamilton. The articles present, consisting of headstones, mantles, and table tops, are goon specimens of work.
The display of furs is new yot large; Mr. H. Ferdmand, of Waterloo, shows a selection of shigh rober, and Mr. I.
 large desiba worked into a senita of tastefu! tigures.
Me sars. Wrisht : Co, St. Sacobz, display several pieces of -ppy carpet oi excelient wortmandip, and alongede Mr. A Thompsta thows a piece of ser riceaille-looking ragcarpet.
Mr. James Morrison, Toronte, contributes a collection of brass work, steam guapes, door humles, castors, and plumber s work of beaut:ful design and finish. Headus, iferspectene:as of nartical compasses of very tame worhmanship

In plated wate, Mr. W. Miitehamp hae on vien some very fine show-cases.
Mr. Robert Wilkes, Toronto has a larice selection of nickelite silver ware, formas one of the most brilliant colle tions in tiac Palase.
There is, as might the looked fars, a laveo and excell nt display of stoves- - carluar, hal., and cooking stoves-all of whi l. Aler puint, of exeellence and chams noon nur regarda: this season that would base it Ciffedt $t$ choose which we woulid eelect. 1 mong th. exhulitors are Mr. Howles, (opm Brot, Hamiton, and Mr Wm. Turnibnl, oi ta: same phace. These exential portions of housekeeper'sfurnshug display the amtrovements that bave sucessmaly been made in this article, until it imght scema $t$, one with a mind to be content liat notheg farther could be done in improrement, unicos it was to get a stove that wanted nuithe: woul nor coal for consumption.
In steel work, parts of carriges, the samples furnished by By ers \& Penu, Gananoque, consisting of springs, are very the work, and of all capacitics, from those for railwas cars down to springs for the licatest sulky. There in also exhibited in another compartasenta sample of that portion of carriage gear called the "fifth whecl." This departuent $i$ ", with the exception of the first-named spectmens, meagrely filled.

CaRBLAGES AN: SLEIG:
In bughies there are not matay on the ground, but we notice sume of extreme ele-ganre-singlo and donble seated The prinripal exhibitors are J Prenguey and J. Amor, both of Eamilton, and W. H. Vermulyea, of Belleville.

The display of doable pleasure carriages is probably the dinest that has leen made at any exhibition in this Provinec. Among those deservins particular mention are two very stylish, extibited by Brumo l.edoux, Blontreal. I he san.e manufacturer exhibits a single carriage oe conpe which is finished iuside with a regard for convenience entirely uew to western ideas. By a pheumatic tube tae "inside" can communicate a verbal message to the drwer; a small beil pull is atso at service; a mirror is securely bedded in the interior, which is also garniehod with pockets for pareels. . Mr. Vermilyea is also an cabilitur in this line, showing a very handsome douine carridge, which is not surpassed on the ground. A Clarence two horae carriage, showa by Mr. Prongney was mach cummeated on for its uuluue appearanse and elaborate workmannhip. The cost is eetimated at $\$ 1, \$ 00$. As a not autittmg conclusion to this nutice on carriggos lic ubstiv a hearse exhibited by M.. Salledu, which it reyuires some fortitude -a say is a yuite cle gaat working vehicle, zod if oue could bausia the associations of mould aud eollins-bat we will take a look at the alcig!a: there were only two cutters on the ground! We obeerved a neat trifle on one of the shat called the "whip and rein holder," by $G$ i" veriee.

F. In the sec iun for haraess the disphay was not large, but the sanaples of work were of a gool fatity. $r$ e noticed a bes of team harue.s foun T. S. (iolrick, St. Mary's,
 with the re, wiste sta theth. Mussrs. Philp and r.jocresta, Hamiton, show a set of double carriage harness, siver monntul and very ! andsome; anow, a set of siure carrinte inamess of nite wernambip. Ta suddes, too, ifis irta is stucessifl m pii/e-tahing, showio. a la iy's saidle of excelicat finish. Encsi ctait, LIamilton. cxhibits, "ith some fine senllles. a collection of trunhs an.l val ises of excelleat workmansbip and in variety, in whic's artides bis competition is guite successid We asticed aiso a contabintion from hatredn and Baneti, Toronto iu ail dles, eaming the sis action of premian:
Mr II. A K:ns. Hamution, tilies : st honours for whips, whe when stang at
 Muduchaci. sume thece. srows a sheat $0^{\circ}$ whip thougo, also prize artules.
Belt leather is shown by Mr. Wm. Kerr, Mitchell, which isadjudged tirst-class; and he also exhinits asample of harnessleather equally ineritorius. In other varicties of leather Mr. Kerr has no compeiitor
Some exchlent samples of leather machane beltin. y arc shewa by $\delta$ L Hariman (C)., Ham:'t.a.
Mr. Donald Ciath, Pusinch, shows saccessinully soue pieces of kersey for hurse clothing.
In extras Mr. L. Martin takes a prize for a m idel of a rotatary air tight. tanming vat of considerable merit as a time saving machine in this manufacture.
Mr. Fer iunad exhibits some dressed caliskin; and some finely dressed deer skins are contributed by McMichayl, Hamilton, and Clayton Richardson, lialdimaved

## shosmaises' hurg, Tuols, and himTher.

There was noticeably very s'ender compe tion in tisis class, but the contributions from the lirm -i Damer, King \& Brown, Tormin, were so ample and of such excrillence and variety as to give the section quite a full appearauce. It is not our intention to par. ticularize t: suy extent, and we will only uotice one article of their mamuacture-the
lady's skating boot, one of tios daintiest and fittingest litule bitg of foot gear inasuinale This iirm, thes three first prizes and a dip. loma.
In boots the ouly contributions are a very arge assortment of lasts and t:ees, the exhibitors in which are Messes. Wallice \& Block, Salem, and Messrs. Selway \& Iredaic Toronto.
woolles, plax, and cotton goods, pl:is, and hearing apparbl
This class was well represented, the contributions being zumerous, and generally of a most conmendable and even excellen: quality. In woollen manufactures our people caim, not the excellence of finish attained by ioreign manufacturers indeed; but in the qualities of endurance, aud not slightly in finish, the Canadian manufactures of this production are not excelled, if they are equalled, by any in the world. This is owing, primarily, to the quality of our wool; and, with the qualitication alread, ad nitted, our machnery and salled labout are secoud to none. The home demani for the roollen goods of home mazufacture is sufficient illustration of the growth of this ins nufacture in Oxtario. A few years agowe may say in an undertone - Canadian tweeds had to be fold as Euglisti grods; the reverse is now the rale, and ienglish gond find rendier sale as canatian uanafacture Indeed, the acellears of Canadian woollens (tweds) is h. \% reoraized $t$ suth an extent in the Cained siates marnes:that m.rcha:ts "ower the hine" ouly reyret the exe win dities that precept their dealing with oir manazaturers. An obse va. inn which eannot fail to have aut peight with our own people is that as a rule, "shoddy" is an abomination cscitwed by our constientious :manufacturers
Barbir Bros., Toronto Woulten Mills, Strectsville, occupy an entire section in the display of over 40 pieces of spriay and summer tucets, satinets, Oxford geys, and fulled clo:hs. It is no bucrely ordinary ubservation when we say that the display of home manudactures by this firm is a credit io the Do minion. It mus be noticed luest. too, that they have otained cielt cici prices, er the n,ti. a of a gold medal, for the enchatioe of treir contributions.
Bol, aing thes we notire tug piaces of ery saperior wstypanoi cloth by Alr b Willama, Gleammatas whin for gualts and ceen tinish view in the smportea artick.
Screral pieces of Winceys, by Messio Harrs \& Co., Rowwool, have obtaited a irst prive.
Sume lustres, exinibited by Randall, lair
Ce., Hespeler, are of such quatity as have secmed an extia prize.
A number of pieces of homemade satinet ne on cxhilition, of various shates of merit. Un: piece of scarlet tiannel, by Mr. James Grant, of Puslinch, takes 1st puize.
Mr. Donald Clark, Pualinch, gets the second prize for tweeds, home-made.
Donald Clarke, Puslinch, gets a first prize ior a piece of white serge of really good qual. ity. Miss M. A. MeIntyre and Mirs. Joseph Grant, who takes a second prize, a.e also exhibitors in this article
There were a fex pairs of con.tortablelooking blanketa; arnow, the exhibitors Mr. Danici Litchen, Canning, takes the first prize.
Mr. D. Clarke gets firut prize for a vary ine piect of white (lamel (home made).
lienges. C. F. Cliff, Ihespeler, contri,ute to the Explatotion a vers nime lot ot Cardigan jackets in frinted yarn - the only kud made in Canala. They are saccessful exhiliters.

Amintron Mocrae \& Co., Guelph, show a sulentud cullection of woollen yarne, stock. $u_{5}$, nity, drawers, madershirts, and Cardi nat jackets, in all of which they have cartutil off tiast prizes This entire scetion is metupied wath articles of first rate quaiity.
Sorne samples of American ontton (raw) are on exhibition in thes section ly Mr. Fraser. Toronto.
Mr. George Copeland, Hamilton, exsibits a large selection of cordage in flax, Jute and Masilla hemp, for which he has been rewarded by several prizes.
In witon batta, yarns, and twine Mr, W. W. Wait, Merritton, showa largely and s:accessfully The Dundas Cottoo Mills are aiso represented in thowe articles, as well as in unblemoked calico and cotton bags, in which first prizes are awarded.

Mr. James Cleneh, Hamilton, displays a number of beautifully coloured and tinished aheepekin mats, dusters, and sleigh roben, for which he has received, with others, an extic prise. Ifsa corner attracts a large degree of attention.
camacha researations.
This department wa representel by only a few contidintors. bat the collections possezelal sjucial metit. There piere several awes of perfmery, pit up in such siyle, rad with ach temping devices, as might hac: ©tesptere the itas" faneiful to "snell mit." With thone low ver, was shown by 115. T. Co, elat. !, Hamitoa, an article be calls "Swedt Cestor Oil," a specialty, which must be a booa indere to nurses aud sickly uvenler. In close vicinity we find Mr. Hugh Mrilers collection, comprising his willely kuowa "Yorkshire Cattle," Feeder," and his "Tich Destroyer" coaipouncs, wh:ch may be fairly rated as amusts essentials to farmers, Messts. Lgman bros., Torunto, als. appear as custibators in this class.

## CANNED FRUITS: PICIRLES.

In this departanc:s the "Grimsly Company" go far beyond all competition. Their portion of the space allotied to these preparations forms an iateresting feature of the exhisition, flanked at either end by an Oange tree and a lemon tice, both bearing frut. iut vers green The collection couprizes unned sampiles of all Canadian fruits and dants whose properties and flavour make Jhih a process desirable. There are also, by gher exhibitors, a fine selection of appe. tiziz. $\frac{5}{5}$ pickles contributed by various exhib. iturs

## MCSICAL INSTRUNENTS.

The display in this department and the unequivocal interest bestowed upon it by t.e spectators is 2 guarantee that, it the musical taste is not developed in yerfection or rises to a paseion among Canadians. it is at least most widely spread, aud unquestion ably one that is being improved by careful education. Ir the collection were many instruments of an excellence of tone and finish ihat it would seem impossible to surpass. We devote anme space to a more particular notice.
Messrs Bell \& Co., of Guelph, exhibit a mall church organ, 12 stops, $4 \frac{1}{2}$ sets of reeds, and 3 sets of qualifying tubes. The instru ment bas carried ofl a first prize. Messrs. Pell \& Co. have also taken a first prize on a double round melodicon with three sets of reeda. qualifying tubes, and a beautifully carved case. In addition to these they how a large cabinet organ, with seven stops andqualifying tubes; a parlour'grand" organ in a rosewood casc, and with nine tons,
including the campanello, a stop not generally found in cabinet oryans; and an orgai with pipesand ceds, either of which my be used separately or both combined In this display Messers. Bell and ic Co. eutr tain the excellent reputation as musiza instrument manufacturers wheh they have now had for several years.

Messrs Herold Pros of Hamilton, a wea tirm, exhilit three pianos
Mr. Heintzman, of Toronto, exhiniss as of his fine toned ts iuare prawo, on wheh his has takena first prize. He also shows a beautifully finished cottazepiano.
Mr. C. S. Thomas, of Hamilton, exhmit; three square pianos which, appear io be very good instruments. I wo of then have a it octave key.board.
Mr. J. A. Lavingston, of Bransford, shows four cabmet organs.

McLeod, Wood \& Co., of Guelph, exhibit tro pizno style melodeons, one in a rosewood and the other in a walnut case. To each of these instruments is attached a bellows of the same description os that used in the cabinet organs; they have thus the same power as caloinet organs, and are much mure handsome pieces of furniture. They also glow two cabinet organs in cas's mule in the coitage piano style, and isn in a new style of case which they claim renlirs the instruments capable of a mulh fuller tone than organs in the ontinary stylo of case. The last mentionel inatrument het tight stops, three sets of recels, and a key buaria of five octaves, and the case is bsan frlly carved and very highiy polishet.
Messrs Weber \& C't, of Kingetm, inht three of their well knew is suare panis Th ese instruments are distimonished by great irnll iancy of tone comlined with mith fos r. One of them has carnud off the fir-t pri,
 One of nthers has been ararded last jum . in the eection "square pianns."

## FINE ARTS.

While a thousand obectis, atunute and in. animate, were bearng tistinmy $t$, the pro gress of this great Deminion in mater Pat! bian, there were others wheld shewed thet the cultivation of the Arta and the situr araces of life were nnt lif moultinated. Ahang these the cbjects brouist mader the category of "the Fine Arts"" ware tiac moot enggestive and signmimat. Someluaty has said that literatule is is no party. anit the same may be Luat trae of thi sistor art of pinting Nay, it would alumst seem as if it was the special pramione of the products of the twitro: : $\operatorname{si}$ thy 2 , provite a neutral gratal, wat
the fierce, it wholes m", struggles of io id ory life might reset tel fime that thete ar. poiuts on which they comh tom the in sya
 wory and spoil the sifit-.ista, ${ }^{2}$ cratic:
 not have been ossy te hate gpets ti: thue it was our nuty to devate to the pre wr gat lery of the exhibition without buch utruth by the inraluable influence of art c.i the na tures of busy men those whose lives are noeswift gtruggle for success and haterial goon forgot for a moment their ankitious, laid by their cares, and escaper from them: selves, and were ty so much the better and the happier. We do not want to att-ch more jmportance to this gallery than it descrves. Some of the pictures were, however eminently and appropriate, and filled the mind with ideas germase to the present condition of Canula

Mr. Verner's Indian Chicfs were por ing, sad, mul prom and 'rurral, which reman' ed the stec:n'or ma strikity mamuer that "lus
 a thap"' is an llisul in a mothly. To :aye un the piatared semblance of migh ty n:se \& thed the mad withteag ermmen-urto er h, the tavturs of thes couthent-uny,
 cheat

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\begin{aligned}
& \text { "ine cof tre une that suit menem }
\end{aligned}
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Mr. Rijatht. St. Bratuan, ani Mr.
 vetrats It sus clear houm the vibeeva tions made that the rasiturs were atot $2 i$, in ribical, but thicy were, neseriheless, keutrally just ta their vieservations, the 1 wara able ic t berng one that Aisti,tle wuild cadersc-was it lihe nature? The elinhirens puntrats neregreat favourites, and man woull remind bill or Tom hury well a Billy or a fummy that was at hone nould look in wi. Dne poor laily discovered 2 resin.blance tor a lost chall, aud there was much lunay teminist, new: the heart was tos fual fur rethence -hatheapes, tigures. Howery -all had to $y$ eth the paim to the hatron :a the opinath of thesestont, simple 39u'n low Euthoh all thests! Ase, and bow haliny the ! we abld have nowed ta qe more quas taken whenast the geo









 tum." The liret what amongs ahe ar which atibutal the witors atteatom
 a Chippena chief, wh. were! buntlit an his band of warnery to the 'rane rame to to
 1562, by 1 A. Serner, wi luinto the chief's head duss cusinets of hawk sleathers dyed, arombl has nech are tuske of the gras! bear; whale in has hit hand he hids the medicine puc. Tae checi does mot make a handsome pheture. Iu the wratket a ane gnaried face there is the history of a lite of activity, in whoh the herect passions hane had full play; the shomet eyog and com ,i-secil mouh speahing of atathonty ani vat w oldy wathon math wanes of hav i.e sathed men and thor wass from a sanet.
 I .as observing pousers. Dir. V.ricr has ental his sulject with geat periter. The Y, recoou is food, an lit is casy to sen tiat

 of ai ristun to hmself an'? enine bostale hie there is "speculation" m hus eyc. abti $a^{\prime}$ iout the mouth resilve wats on the dinkun oi the juilgnent. The artactiation of hes veins of the hant evilunces the ease of textment. There 1s, howerer, a harshnews awoit the picture which enples a defecteve wastery of colour, and the flesh is inefticuenty rendered. A landscape, by Mr. Richard. Daigent, Toronto, is a most creortable piece of work, the grouping being artistic iu the highest sense of that exigent word, ani the management of the chiara-ucuro, the treatinent uf grubees, foniago and rater afford ung yromise of the most fruitfu: knd. Thsuulit willow, drooping over the neck of water, is adini-ably true to nature, while the sunny lepping waves remind us of Millas.
without raising a ghost to terrify the artist. Mr. B.ight fails in deahng whil the trens m ine dratalice, and has sky is weak. fomert

 shice to watch a an an hatiowaye wethont
 visume, th rhat in itan thit in the latio
 mast lace tre the of this enatry, wher
 Fit M: What hag quen us the magrogits. Telater, honever, a ant hatis a. " motwith. tanutut, mousing huch quealth in ist puwer m deaing wheh soluas from the swae arist there is a mountain torrent heraxay and tashitig bitw een aml outer rochs and wiorauproo'cd trees - which dishhas inest y tantties in an metenst: furm. "iue roiks and blastad monatam piae and duna sweep of the harrs mg aters are well hatated Mr. W. Ambion, of Hamiton, lhe there we have already mentioncl. coungetes lor a urize sites: 1 (any subject) with a very that hadscape-a sunset in a mountan district-n ach is very admira de in its lag't, the golien haze of sunset swetpug dowis from the 3 thera blace
 throwing long odows on the harat bring (the thite i, harvest), tiogms wata wre the earh an the we inath hat wa the thll, inate


 athent athay tht Pr Prewten
 tall that then cactuily sem at, hn do


 "y the fanm, atorg the rat whot , arna


 +o stor The whir hitus builer the finst cect $n$ vin le emphetad uben we say that
 tuo pr thaiso of chatata, the dapory heong Wharally cast, aw the ex pe-ssion beng wry end bat the biefl. cene badity of one of the chllren, was dry ha its treatment. Tha costume in can carc. leade us to remaha. that it wouk be wall it Mr. Graigman devo. ted nure attention to the sthin of a rat perspustice. These two phan...r, however, stanp Mr Bhilga, an as a mastre if bis cratt, and hat afor mothers and hatier diang
 that ines. 10 hoce eyes wheh herh u.a. we





 Ia the uthre danes ind pithen ate chatwely of smathe balue the pizes have not neon
 - nals frua Life') his matheed one or (if , artists to give us some cuaguchtivus sudurs from natare. The two mask rats in tho foreground of a clearing-forest behind- by Mr. Baigent) are drawn with as loving' a. hand an Sir Eduard Lamdeeer himself woald have bestowed ua those knowing geatlemen of the copse. Immediatcly beneath is 2 dangervus competitor from the studo of Mr. Rolert Whalo-a racoon eatiug Indian corn near 2 patch of water-while a frog purched on a stone gazes with its guggle oyes full of indignation at the intruder. The racoon is splendidly done. On the left we bave some beavers from Mr. Baigent-a picture which
is not erfual to etther of his other picturesbut which givas him an opportunity of showing with what mastery hecan imitate grasses. Mir. Chis. Chapman of London (an amatour) tries for empire with a farming pieco-not without merit - the cows being very good, but the trees patchy, and in somo inatinnces untrue. We had nearly, owing to defectiveness of arrangement, failed to notice an cagle cr some bird of prey with a tront in his claws-a picture untrue to anture in every particular, aud dauby. The noxt classifica. tion is that of figure subjects, and here Mr. Vorner is exaily tirst (we now not what the opinion of the judges may be.) Mis Ta-Tadia-Nanin, hereditary chief of the Sioux, and participator in the massacre of 1562 in Minnesota, being being very much superior to the picture in class 1 by the same artist. The face of Ta-Tanka-Nanin is not unlike what !lr. Spargeon's was, only that the mouth of the chief is much better formed than that of the great Baptist preacher. The treatment of the whole figure in pesture and expression 15 very good, while the flesh is reuiered in a manner that makes us doubt if both pictures are from the same hand. After this admarable picture we have to deal entirely with Mr. Bridgman. There are three sigures-a little girl sitting down at the base of a tres - the boots, as ushal, playing a great part; then a little boy satting on an impossible rock in the midst of au impos sible landscape-Mr. Uridgman showing himself ignorant of the very elementary principles of linear perspective; and then a little boy in asarm chair, which at a superticia! glanes whl plesse, but which the next moment sirucks all sense of proportion by the monstrous size of the bead. let this is the only hanre of Mr Mritgman which is aboo lutely tree from dryaces. Then we come to class $\bar{J}$ (Cauarlian landscapes, ) and Mr. A. N. McFivoy, of Toronto, leads off with the Falls of Niaga:a, and a river seene on one of our great rivers. (Why he and others do not tell the locality we are puzzled to say.) The Niagara picture is a frightiful failure, the falliug water giving no idea of water whatever. It is on!y when we look below and see sone waves and yatches of dirty white, meant for foam, that by an effort of the infercutial faculty ne conclu le that we are grama not on walls of gardens dionly ecen, but on Niug. ara. The other picture has some fclicitnus colour.ng of rock, but the water-where McEvoy evidently thinks he is strong-1s execrale. A landscape by Mr. J C. Whale brings us to somewhat better thing; but here in the midst of some good work ne h.ve not a little inexcusably bad. A symmetriaal fox, spriagiog with great lcisure over a p.ol, with some helpless-looking dogs following, takes 2 way all attention from the landscape, which is hasty and dau'y, rocks being piled on cach otacr like so many cheesecakes; yet wherever that scene is assuredly great beauty dwells. On the other hand Alr. Verner has a ti.e lands appe-rapids swecping between pinc forests -it boing impossible to mistake the rath and roar of the onward stream for anything else. We have to take the good the gods provide us as thoy please, an? so pass on to Class 8 (portraits.) We lead off with Mir. Alexander Davidson, Toronto, who gives us a portrait of a masonic grani -master, (L. B Harris), who, if at all hike his portrait, we should never like to mect unless at some perwd when our nerves aro exceptionally strong. fur a mura ghostly person it would be impossible to conceive. It remunds ane of the early Italian style of painting eaints only that it is ancomparably harder. We have a smaller portrait from the same hand having the same dry defects; of anuther, ditto. We have three very excellent portraits from Mr Bridgman--that of a man of about

35 and "boarded like a pard," being, we fan cy, the first prize. A man's bust by Lefler, (llamilton), and a full length painting of a girl with a doll, show great atifiness and crudeness in dealing wirh colour. The other portraits, that of 2 young lady by Robert Whale, and of a young giri by T. M. Martin evince deplorable immaturity. In class 7, (Canadian marine subjects), wo havo a scanty representation, but what we have is good; Mr. J. M. Martin giving us a river scone so good, notwithstanding some glaring defects, that we should alvise him to stick to land. scape and eschew portrait painting as long as he lives. The other picture is the "Eaglo Rocks" on the coast of Labrador, a fine painting in which the sea, in its sweep and tint, is tinely rendered, This is by Mr. Verner. We would point out to him that it is a pity his rocks, so strong in some points, should be so treak in others. His sea deserves only ucqualitied prase. In Class 6 (landscape or marine painting, not Canadian) we have at the hands of Mr. Baigent a line landscape in which he deals with foliage, the chiaro scuro of the trees being executed with his usual skill. Uni?er the heading of "Still Life" we see some grapes and peaches and melons from the studio of Mr. J Griflith, drad hirds from Mr: Raigent, amil also from Mr. Whale. But nothny under the he di of "Sitl Life" calls for special comment, nor dues Class 3 (howers, grouped or single) And now it would appear, from the observation of one of the beadles nos from the catalogrethat wo have hencefortin to deal with amatems in oil colonrs; and 80 wo commence with Class 10 (any subject). Miss Mary Strickland, Oshawa, Mr. Thomas Corquodale, Toronto, Mrs. Cel. Gourly, Hamilton, Miss C Rise, Hamilton, Miss Westmacott, Toronto, Charles Chapman (an amateur), and Dolly Wilson are exhibitors under this head, but there is nothing calling us to linger over its beauty. The Jandscape of Doily Wilson, Hamilton, is very inelegant, and shows ricious study of the pre-Raphaelite school. Under class 14 Miss Mary Stricklanã has a fine Canadian landscape, but she fails to give in en adequate manner the fire of the trees in antumn. We have then photographs and photographs done in oil and in pastile, by Buttes Brothers, Chatham, and these portraits are among-if not-the best in the exhibition; while the porcrait of a lady finished in pastilo is one of the most beautiful imitations of the human face in its divinest form we have ever secn. Carvings and models having caused us to tarry for some tme, we pass on to " water colonrs." The classifications are the same, but the interest is nin longer so great, aud we must content ourselves, hecanse wo know in n) other way could we content the reader, by dealing ouly with the more salient exhibitions. Ar. A. Verner vies with Mr. Martin and Mr: Millard (all of Toronto), Mr. Smith of Hamilton, and others, in tioure subjects, easily winning, with an In tian scalping a Trapper-a picture alike terriblo and true in feeling; Mr. (C S. Millard taking the second prize with a very surect picture of camping life. Among the "flowers" Mr. J. Griffith (Loncion) took the first prizo-his picture being a splendid assemblage of colours, the second prire falling to Mrr. Martin (Toronto), for a water-colour of Euglish wild flowors, whin reminds one of a charming paseagu in Wheh speare. Mr. Verncis cucampment of ("hipiaia deservedly took the first prize in the lst class (any subject, Slo, the becund beiny aroardel to Mr. J. H. Caldy, for a lovely bit of moun. tain suenery, the thard prize falling to Mr. Griffiths, for fruit and Aowers. Mr. J. M. Martan exhibits two cows at a fimol (Animals from Life), which might make a reputation for a man. Some good
pencil and crayon drawings will, among uther things, well repay a visit. F. M. B. Sinith (Hamilton) has painted the Cricket Ground at Hamilton, rith tho English Eloven playing, and we are only glad that the Eng. lish Eleven did not seo this tribute to their prowess. $A$ beautiful painting of the Mus. koka River (Verner) took the first prize among the Canadian landscapes. On the whole the exhibition of fine arts reflects the highest credit on Canadian artists, aud is full of promise of a day in the early future when the unique scenery of the Dominion will be travsferred to canvass, which will be eagerly sought in the dilletanti marts of the old world.

We did not in our remarls of Tuesday exhaust the interest of the picture gallery. It was well we had chosen the first day for our observations in chief, because the crowd has been since so great that the only problem one could think of was how to move on. As well as we can see over the heads of the people, pasked as close as herrings in a barrei, thi lst prize has been righteously azarded to Mr. F. A. Verner in the competstion of water colour Canadian landscape. In sepia drawing J. Griffith takes the lirst prize with some fruit beauti'ully exec:ated, and Mr. J. II. Caddy the second, his work iecing a very charming sketch of a "Temple in the ruins of Pa . leng." Mr. F. A. Veruer, who is the farourite son of fortune in this exhibition, snatehes the supreme reward in marine viows, by a tive water colour-"'Toronto from the Bay." We have often seen Toronto from the bay, but never anything like what it appears in this picture. Perbaps we have not been fortunate, or otherwise it seems to us Toronto ought to have made a much better picture.
"A Moor in Cornwall", by Mr. Henry Martin, deservedly wins in the kindred sub. ject of marine view, without the quaification of "Canadian." There is, however, nothing very remarkable until we come to the portraits, and here Mr. F. A. Vorner presenta us with one of the most artistic pieces of work in the entire gallery. His Italian beggar is true and artistic in every particu lar. Any man who has ever wandered down the Campagna, or loitered around the church whose dome dwarfs St. Paul's, will raise this portrait out of the particular into the gencric-Mr. Verner having, in fact, pictured a class as well as an individual. The hypocritical air, the shrewd oye, the wrinkled face, the exaggerated suffeing, and voluntary abascment are all portrayed in this admrable study. The clever beggar shivers so well we instinctively feel in our pockets for some coin. Mr. Mathews (Turonto) takes the second prize with the poitrait of a girl, which is delicient, how ever, in easincss of pose. Mr. R. Baigent has giveu us a splendid crayon-a water fowl amid reeds-which takes, and most deservedly, the first prize, the second falling to Miss B. Gunn. Her fox with a duck in his mouth is very good, but we would point out to Miss Gunn that there are grave ans. tomical objections to the lines of her duck; the fox ${ }^{13}$ perfect. Coming to "crayon coloured," we have a beautiful river scene from the pencil of Mr. J. H. Caddy, which takes the second prize. We shall not pause over crayon portraits further than to say that Mr. N'. M1. Smith's portrait of a young man writing (second prize) has conalderable merit. Anong the pencll drawings there is a fine sketch of trees around a iuin, (lat prize) which in every detail is well exo cuted-the outline and fecling being alike admurable. The artist is Mr. J. H. Caddy. Touching the pen-and-ink sketohes, Mr. J. Griffth takes the first prize with some fruit,
exjressed with great correctnose, and with a softness whice we shoud have scarcely credit el pen and ink with the power to remider A spirited sketch of a lacresse match (F. M. B Smith-wny docs be have so many mitials tshes the second prize There is some giow work here-nor would it be easy to give a hetter representation of a man in the act o ruaning. (Going forward - uot in the naturai order, but according to the arrangement of the exhibition- it is our duty to i and with wood engraving. Ball Brothers, of Toronto, exhabit some engravag witn proof whech, in fneness of exccution, is not to bo surpassed. The proof of "Chitdren at Play" is admirahle and the delicate outline of the leaves of trees evinces great fineness. These gentlemen win the hirst prize, the serund falling to P. $L$. Scrisen, of Hamilton, who exhmis some very good engravings of machinery.
Carving in stone is represented by good work from Mesers. Thomas McComb and M. E. Rice. M. E. Rice is facile princeps is more eenses than oue as a statuary. He has in truth had the race all to mineelf. His alecping child is excellent in posture, but the face is bal.
Tbauks so prizes in wodels in clay or wax we ane dolightod by Mrs a Healip, Torunto, with a spetacid garr of bys tight ing, attisude, expressont, passon,e er ry ling, is well dovie, aud we ouly wouder it dud biat take the frist prize instrad of the serant, the
 model wEich mages serve for Byran o" Bimais.

We wore glad to mothee that the juige andorsed our view ramberting the eniarged photog:aphs fistehted in cils, .] il Bridg. man wanigy well with the potrat 4
 with the portait of a man, a ladithe, hen
 attemtion-laving bech axardeci an catre prize. Sic looks rate of thoue wmen or whom Stecle equke by intirence when he said, to snow a certan atermutanee of his was a "liberal eluestom." Then we have photogath portrans simsted in Iniman ink and also in water colours. That of a laly by Air. Matkews, Toronto, being equecily good. In the mixed styie whter culcurs finished with crayon. Miss B. Gum tales the first pize with some dogs' heads well exceutcd. We wonld advise the visitor to lenl: wat for "il pont Carraza thorence' hy "11 Wilsun. Mr. J Love, Niagara, eviiz it sone panting on velvet which is no va worthy of a sp, il of attention. In d'ant crayon Niss Wemace to takes the ems riete with a stag wetl secuted- the second falling to Ar. i. L. tay tur-tor a mema subject rot well cise. Mr. J. Mikiv has
 out and thereard some of his prat at has
 mirable sadition our the state of an at astasedi

 who thes has tonhey wifine the ghe a ow has es mpatilus, cha has deserectizy won th. lstypize ; the secomi falle to Nies 31 !
 humours fi a fashonable weddme whenca spirit and a five sensce of the ludicions soinsun ity and ioms which awat the neptialy 0 the great", bas is she ant afrad thic mar: tee poone wil: d.b her at theremanteny Vis We:tmacotthas mish cool worn it the ex hibition-but her fencil drawing of " 1 adis Jane Greys victery over Bishol, G.irfiner,i" 19 the beer thing ste exhihits- ant is warth? good deal of the mil painting Trepasern o the discomsited Bubiop and the calui of Laey Jane-are fiedy rendered the Stircd Famply (N:ss Natey Strichlaurl) tates ther opst

Harking back to the oil paintiugs we find Mr. H. Macoryumale (Toroatol taking an extrapreye for a "Mantue ves"-h:s shp bemg well caught in the surge of a storm. ay doer Mhss Westmacot for a eharmmg bit of Numetur lanuscape. In the Canadion Landsrapu-Mr. F. II. $\backslash$ erner takes list prize whith ariver on which we have already tomiakeel. The second prize is given to Mr I. C. Whale for his fox and landseape一the fux beng the man featuro of the pretire Mr. Paigent gets sri tor a very chamme piece of ryer seenery. Mr. $\backslash$ erner's "Eayle liocks" nf cours? was tirst umong marue Canahan sukjects, Mr. Thos. M. Martan taking second with, his Jake seene, and sports. wen prosed in a mauner sportsmen never were. J W Bridgman takes the first priye from the portrate, wath a laly in velvet; Mr. 18 Whale the second, wifth a lady in pink: 88 also the third. with a larly car. esuing her daughter.
We are happy to say that the judece have avaried the lat jui\% in figure sub. fects to "Tha Tontsa Nozzo," a pietare of Ir Vernere which Mas grins maris. Tbe 2nl is taken ly Mr. TV. IV. Bringeman in that hambome loy on an "inapseible rn: ti an mposible lamisnow 'They have ds. Mesl. rut in our judgment in "A Ammale fom
 alonet ant hove "hatris ramm mating tredan eorn makes a imo se mot Tho

 have piven it the lat prive, 14 (hnothay How witiry tho seren for a alloy with find hilla on either culde the hiery celome of the foll hang aimuaby medicret. The
 seque on whoh we have alr, aly commeatel ard which om the to have bronsecom But fie hunst ist lang Uull harz ist musa: [alon] in a sonse biturent fron that of tiocthe, and so we pathe agan, exprese m. the emphate opmion that the art gallers reflects honmur cu Canada.
 pertepy. \&e
In staised glass the exhibitors are Mr Joseph Mecauslaud, Toronto, who shewa a chancel window of Brampton Chureh. containing a number of illistiations $n^{8}$ sacred history, exrented in an highly ati-ti- mata ner, a stair ase wind ow fur priate derethene in stain, $w$ whk, sud specincons of white and pollomer embossed work fur hally in dwell
 n emiemineatly clar tedesinn Mr पis ans 'abal ako exin!ite somm rety fine spurns en oif
 duitus the colle:tion of vieceraus
 Lon 'om, consisting of clane' 'simdess,
 inns, wh metheir deeigns ani in in anty of at 1 rat
 Im'ing are aiterately and trantaburls so mented hy Hesprs Comp, Chath \& in ad fell \& To. Turmato, the fumer on
 - thah style in ste art as well a* specment , if leterperes. Messrs, Mell \& Co, have aty a trege sobetima ot canet es m letera $I_{\text {ress }}$ in exwherat styla, itwal ag what is Pless rited as an 'Alnum trud to Toronto.' contamang a :mibrer of tinc photograbhis vews of the rify
In sich inatra of permar,ship ty a disp'ayo Tij the "Canatan Bursiness College," " whan and cmanaental writing, are of the highest excellence, including forms of hal ance shret. carchs. \$c, and pen and ink drawing. Gdell \& Trant, "British Ameri-
can Business Colloge," atso comitribute alarge collectinn of spectrens of penmanship, wheb command atmiration.
Itr, C Putter, Tironto, contrimess a col'gotion of mathrmational and phiosephacal mstrumpnts-with eprecimens of a seliool sent and tlesk; all viewed with high fa"nur.
Mir. lanwes Arthars, Torento, cebibits a ase of irthnpichu mat minents of an mirable ailaptatinthas lemedial adds for diformity or weaknoss an the spure limbs and feet. This is almost a new braneliof manumeture in Canada, in which the exhbitor is eangune of beiog able to compete with imported artieles. 7 hese specimene are bcantifully tinished. Mr Arthuralso exhibuts spectmons of artucial hombs of excellent workmanshap.
Mr. A. Mifaren, London, is also na exlibitur of attiticial limbs, of eecmogly admirable adaptation.

Mr. James "ieher, Portsmonth, erbilits a moitel of a screw propeller shaft, fiction grar, ly which the frocticn is ucduced to a тіициния
Messrs. Bnown di Ranta, Hamtion, «xhibit the ouly sle aud Mr H , Mandford. Hawston malibits a collewinn of mouliang. the gelding nud desiyns in whish are exceptimally fine.



In matemals on fain ing remoruction, the "Allerstat Rrick Co." Wan inow', ethibit spremens nitheir woh, whith have

 prize for kih. burnt bride 3
 a splentid collection ef stue raic ana i tuath-
 desuen.
A collertion of slates for scbeolard roming purposes is exbibited hy the 1 anville slate 'o., Quebee.

Mr. T. G. Graft, Mown Forsternibits a sifcimen of road cement whith bas hern com: mended by the judges.

## LADIES BOAK

 large aod attrative tsway Ve sball
 artifes we the corld . :i.ga
 the eye is the onppiay in tarcy patats. of whi h herent abust a cinene of sumin of dolerewt bleame desurs come pretty
 84. cos


 at We te thominan, are close a mpertors of : hu d cortitem of work, a pario rimen rever shipere. bern maty nrnamperen rith cetar elase bords and un waten fants the wok of liss Drown, the lacy :rs: 1 autioned, are such as a princess mght be pond to wear A parple velvet cushinn. beantrially ornamented with bads, the work of Nliss Carrie Inuss Tas lor of Calethoma, is also worthy ${ }^{2}$ special mention.
The specimensfor braiding sitown are genêrally cexcellent The exhibitors of this description of wurh are the Misses Vary and Nazey Strickland, Mise Lrons, Mrs-S. A. Mascm, Trafalgar Mille; Invinia Yathinson, Eranosa; and Miss Bates, Dandtre
The crochet work shown is of average merit.

Miss Marrict Pettit, of Trafalgar; Miss Jano Green, of Norwichvillo; Miss Bates and tho Miss Strickland show somo vory protty specimens of embroidery in muslin. The same ladics are exlubitors of embroidery in cotton.

Miss E. .r. Idyons, of Wost Flamboro, and M. A. Douthy, of IIamilton, each exhibit a chilil's drese, tastefully cinbroidered in silk. A pair of slıppers oxhibited by Miss G. Lamb, of 'Toronto, and which are exbroidered with silk of various colours and gold bullion thread, are evidently the result of considerable patient needle-work.

Miss A. Carmichacl, of Naim, shows a specimen of worsted embroidery on worsted. - chald's dress, showing the same description of work, is exhibited by Miss M. A. Frecman, of Mulmur. $I$ couple of pictures in worsten, shnwn ly Miss Lyons, are also worthy of note.

Somo extremcly tine knilling, with cotton thread, is shown by Miss Choate, of Ingergoll.

The Misses Strickland and Miss Bates, are competitors in some very tine guipure work.

Mrs. 17 m . Voung, of Colborne, exhilits a pair of fancy knitted stockings and a faney knitted counterpaue.

Gomo very fine lace work is shown by Miss E. Bidwell, of Cramahe, Miss M. A. O'carroll, of Belleville, Miss A. Smyth, Toronto, Mrs, C. L. Thomas, Iramilton, Mis. A. II. Cranston, Galt, Mrs. James M. Green, Jorwichville, Mies Lyons, West Klamboro, Miss Sylvester, Mamilton, and Miss Mary Croft, Yorkville.

Under the head of faney needlework, two recalia collars, rechly ornamented with silver jullion thread, aro exhibited by Miss Syons.

Some of the most delicate pieces of work in this department aro the very pretty specin, ens of fancy netting shown by Dliss M. J. AlcSillan, of Galt, Jiss Bates, of IIamilton, Mrs. M. Recd, of Glanford, Mrs. Chas. Wright, of Binbrook, Mrs. Cranston, of (ralt, Miss Lyons, of West Nlamboro', and Miss Lizzic Brown, of Chinguacousy.

Several gentlemen's shirts are shown, and as usual, they are almost without cexception ovorladen with plaits and frills.

The tatting shown is extremely fine, both as regards the work itself and tho beautiful patterns. The exhibitors are Miss M. McMillan. of Galt, Mrs. Alex. McGregor, Miss F. Bidwell, Cramahe; Miss Annie Lyons, Dundas; and Miss Powell, Cobourg.

Miss Lyous exhibits two extremely beautiul specimens of Indian bead work, on which she has been awarded a first prize.

Miss E. Bidwell exhibits a very pretty specimen of fancy knitting called the "Princess Alexandra apron."

Miss Annie Moss, of Hamilton, exhibits a sct of doll's bed clothing, whieh reflects great credit on her taste and skill with the needle and netting hook.

Miss Mary Strickland, of Oshawn, exhibits a set of toilct mats, cushions, \&c., tastefully braided.

Mrs. L. S. Lundy, of Drummondville, and Mrs. E. Walker, of Onondaga. exhibit some specimens of plain hand sewing, than which the sewing machine work in the vicinity is scarcely finer.

Several specimens of,knitting, in the shape of woollen mits, socks and etockings, are shown, and some fof the stitelies are very ornamental.
Several shrings of buttons, one of which, shown by Miss H. McPherson, of Hamilton, contains specimens of 1,400 different linds, are exhibited.

A moss pioture, roprosonting a sceno in the Thousand Islands, has brought tho oxhibitor, Mrr. Band, of Toronto, the first prize. Anothor vesy protty picturo in tho same atylo of art is shown by Miss Sarah Strickland.

Miss Minnio Davis, of Esst Flamboro, ano Mrs, Ghent, of the same townahip, entor in. to compotition with two elaborats leatherwork picture-frames, in the construction of which the form of grapes and vine leaves has boon very closoly imitated.
Miss Mary Strickland oxhiobits two hand. screens, consisting of sild embroidery and feather work.
Miss Mary Strickland exhibits a specimon of pearl painting, ropresenting a paroquet in all the glory of his brightly coloured plum. age. A pioce of crystal painting, represent. ing a vaso of flowers, is shown by Miss Sarah Strickland.

Mrs. James Park, of East Oxford, exhibits a suecimen of a now and very boautiful fancy work, viz., a case of flowers, constructed of muslin of dillerent colours.

Mr. George Ellis cxhibits on the head of a wooden beauty a completo head of hair, ela. borately done up and very natural in appear. ance.

Miss A. Lyons exhibits a "water-lily mat," in which water lalies and moss are very clevcrly imitated in woollen garn and Berlin wool.

Miss M. C. liggar, of Salttlect, exhibits in a picture frame it wreath of dried flowers, ferns, \&c., which is very pretty. A wreath of dried towers in a large case is shown by Mis. James lark, of Oxforl Centre.

Miss Lizzic Brown, of Chinguacousy ex. hibits a white hair wreath. Specimens of the same work aro shown by Miss İ. J. Lyons, and by Mrs. H. Burkholder, of Lamilton.

Miss Lyons has been awariled the first prize on a banner tire screen, beautifully or namented witi a paroquet and a bouquet of flowers in raised worsted. Some very pretty mised worsted flowers, shown by Miss Bates, of Hamilton, have taken the second prizo.

An excecdingly pretty piece of worsted work in carpet pattern, ornamented with representations of human figures, animals and flowers, is shown by IIrs. Colbeck, of Hamilton. Miss A. McGregor, of Galt, and Miss Bates, of Hamilton, each exhibit a couple of frames of plain worsted work.
Miss Mary Strichland exhibits a camp chair, the back and seat of which are in worsted.

Diss Sarall Brydges, of Hamilton, has on exhibition a specimen of feather flower work, representing a lyre. Mrs. James Park has taken the tirst prize on a large case of feather tlowers, and the third prize for a case of the same has been awarded to Miss M. Dufly, of Binbrook. Very pretty cases of feather flowers are also shown by Niss A. V. Terrybury, of Clinton; Miss Emily Brydges, of Iramilton; Mrs. D. Biggar, of Saltlleet, and J. A. Daniel, of Ancaster.

Miss Alice Land, of Saltllect, and Miss M. Duffy are exhibitors of magniticent seed wreaths.
Miss Amelia Cook, of Barton, exhibits what is ticketed as a moss picture, but which is rather a moss wreath.

Miss Nancy Strickland exhibits a very beautiful specimen of shell work in the form of a lady's workbox. Miss Lyons exhibits a handsome shell work picture-frame and has very appropriately placed in it a water colour picture of sca shells.

Mrs. Colbeck exhibits a large worsted. work picture, representing, we presume, the
recoption of Christopher Columbus by Isa. bella upon his return from the discovory of Americen The figures aro extremely well portrayed. Another excellont ropresontation of a historioal scone, in worstod, is shown by $A$ İss. J. W. Bridgman, of Toronto.

Of wax-Fork there are several magnificent spocimens. The cuses of fruit shown by the Misses Lyons are temptingly natural. The same ladies also exhibit some vary oreditable imitations of shells. Mias M. A. Harris. Mrs. Apploton, and Mrs. B. R. Kane, of Eamilton, and Mrs. Heaslip, of Toronto, each exhibit a beantiful white wax crose and flowerm. Mrs, Heaslip, with Mrs. A. Hrrron, of Hamilton, oxhibit a case cach of wax flowers. Mrs. Heaslip exhibits, clinging to a oross, a very fine imitation of the English parsion lower. A case of wax shells exhibited by Mrs. Park is most commendable, a very large number of difforent sea-sholls being very clevorly counterfeited. Mrs. Appleton shows a protty littlo case of wax water lilien.

Miss E. J. Lyons exhibits two caser o very well-preserved skeleton leavos and forns.

Miss Isabella Graham, of Hamilton, exhibits a case of hair jowellery, oonsisting of bracelets, brooches, ear drops, watch guards, \&c.

Miss C. King, of Hamilton, exhibits 8 protty little ornament constructed of perforated cardboard.
Mrs. James Park exhibits a caso of Burlin wool birds and butterdies, which look quito natural.
Mrs. J. W. Willinms, of Hamilton, exhibits three cases of skeleton leaves, which are particularly worthy of notice.

MIrs. MI. C. Biggar, of Saltfleet, has taken the first prize on a large seed wreath.

Mrs James Park, M. E. Smith, of Loncion, and Miss L. Brown, of Chinguacousy, cach exhibit a case of silver wire and Berlin wool flowers, aud have been awarded the first, second, and third prize respeatively.

Miss M. Snively, of St. Catharines, exhibits shect-rax of various colours for the manufaciure of wax fowers, \&c.

## GROCERIES, PROVISIONS.

To begin at the beginning, Georgo D. Morse \& Cu., Torouto, exhibit a variety of soaps, candles, and olnagenous compound: of housekeeping utility. Raising this class of articles to distinction, Mr. Morse has erected a column, in the classic form, of soap, 15 fect in height, which is with some incongruity placed on the stand with the musical instruments; forming a conspicuous object, whose device might be, "Down with dirt." He also shews some samples of lard oil. Dickson, Benning \& Co., Paris, exhibit some samples of plug tobaccos, of their own manufacture. 'Ihere are also a fow samples of cigars.

The Edwardsburg Starch Co. shew a fine parcel of this commodity, so suggestive of the laundry. The Ontario Starele Company also contribute in this linc.
Dr, E. H. Shourds, Thorold, exhibits it variety of bottled fruits and vagetables, which are warranted to keep for ycars (under a patent) without sealing.
In provisions, we noticed Morgan Bros., Hamilton, exhibitors of Graham flour, cracked wheat, Indian corn meal, and split peas. Among other exbibitors wo notice the names of Jameshassell, who contributes finesamples of not and pearl barley; John Cox, who shews some buckwhent flour; and G. W. Rymal, Waterdown, who also exhibits in these articles.
Recurring to bottled fruits and pickles, we mention the names of Miss E. J. Iyyons, West Flamboro, E. L. Hopkins, Stony Creek, and A. Ghent, as successful exhibitors.

## FINANCIAL SUCCESS.

## Hannlton, Sopt. 27th.

The oxhibition came to a clong to day, after another day of that excoptionally fine wea. ther for this season of the year which has provailed every day during the weok, Nover before, we beliove, in the history of thess exhibitions have tho meteorologieal conditions boen so entirely favourable. Both financially, whioh is of great importance, and in othor respecta the show has proved a great succoss. The receipts during the week have been as follows :
Monday and Tuesday................ \& 80187
Wednesday.
5,059 57
Thnrsday.
5,925 00
Friday..
77752
Total.
\$12,563 98
For purposes of comparison we give also the receipts for last year at Kingston, which were as follows :

Total., .................................... $\$ 0,23533$
The above figures afford a strong argument for the holding of the oxhibition as far castward as Kingaton as soldom as possible. When it ras last hold in Hamilton, four years ago, the total number of paying visitors who attended it was about 14,000 loss than tho receipts for this year represent, and yet oven then they were abont 10,000 more num^rous than last year.

## ANNUAT, MEETLN(:

## The Presidnar's Ammess

The annual meeting of the Agricultural and Arts Association whs held this evening, about 300 delegates being present. Stephen White, of Chathan, on taking the chair, resd the Annual Address, as follows:-
Gentlenes;-One year since, on an occasion similar to this, we enjoyed the privilege of listening to the address of my predecessor. How short that time appears when lookiog back on the past. Then, we were assembled at Kingston-the pornt farthest East at which theso annual gathorings have as yet boen held; now we are brought into direct communication with the citzens of this am. bitious city of Hamilton, whoh, I believo deservedly, ranks first among tho manufacturing centres of oar vast Do. minion. Our fairs hero have ever proved a success; and when I look over our grounds ou the prescat occasion, I feel that the farm ers, mechancs and others who have contribated to this vast collection have indeed somothing of which to feel prond, and may rell rest assared that they are contributing to the builling up of that national pros. perity and greatness to which wo may justly josk as the boast of our prosperity. We have great canse of thankfulness to a lind and bencficent Providence for continued peace and prosperity; and although the drouth in the early summer affected the crops in mome localities to a considerablo extent, and the West has suffered severely from the ravages of the Colorado potato bectic, which has now
bocome one of the worst enemies with which we have to contend, yet the labour of tho present year generally has proved so productive and remunerative to the husbanclman that wo have plenty and to spare, and all are blessed with ample to provide the nevessaries and comforts of a home. The caltivition of fax is increasing in oxtent, and is marked with decidod success, so that those who jiave advocated its introduction have overy roason to anticipate that it will soon rank aivong our staple prolluctions. As our country benomes more opened up, we seo the greater necessity of providing green food for our stock, particuiarly cattle, duriug tho summer months, when the grass has become parched and dried up by thi hot weather; the oxperiment of sowing broudcast. or thickly drilling Indian corn at different times during the season, so as to bo cut and fed to them, has been triod with success, an: is] likely to prove a great boon to the dairymen. The results of our labours for a short twelvemonth have been brought together and openly oxposed to view, and let those who ere be judges of the fertility of the fair Province of Ontario. and of the ability of her sons in yet forming the mucleus of one of the stronghollds of the British Empire, or, if need should arise (which 1 pray may never occur), of forming the centre of a great and prosperons independent mationality. Our motto is "defence, not defiance," and, as was said hy my prodecessor, although ready on any and every occasion to resist oppression, wo have nothing to gain from, nor do we desure, an aggressive policy. Our aim is to promoto the peace and goodwill, the wealth, intelligeuce and happiness, of nations. The drainage now being carried on in the Western Peninsula, by opening up the natural water courses, and in some cases cutting artificial oncs, is producing a markeä and growing effect. Lands which heretofore were totally unlit for cultivation and worthless, with the exception of a small growth of wild grass for pasture are rapidly being brought under the influence of the ploueh, and are found to bo the most fatile, productive and remunerative, thus amply icwarding the proprictor or temant ior any costs he may have incurred in their production.
In looking over the past few years, I can not but observe the many changes through which we have passed and are passing; one of the priuchnal of these is in the manner employed in carrying on the operations of the farm. Ho who hires farm labourers now can scldom obtain nativo born young Canadians or Americans, farmers' sons bred up in their fiathers' farms and at home in all the minutie of farming, such as were the hired men on our farms a few years ago. Nor is it any less difficult in most sections of the Province to obtain a farmer's daughter as the hured girl cithor for honseworis or daury. To obtann whilled labour now-a-days is in fact one of the greatest difficultics to be contended with in carrying on a farm. Fortanate indeed is it for us that so many labour-saying machincs were introduced before this great want had become so great. I do not wish it to bo nnderstood that 1 fal to appreciate our indebtedness for vast inds. vidual and national prosperity to the strong arms and stout hearts of our forcign immigration; lut that class of labourers require a long and patient teaching before thoy are capable of manaring ourmachines, of hanciling our teams or of understanding our system of farming generally. let theso men are apt to expect tho wages of our first class Cana dians. Besides, as a gencral rulo, unmarried men of that class are unsettled in their babite, roving and with no local tics to
bind them, realy to leave for trifling causes
or small inducements of hatat wates. Ithe question is becoming serions; but how is it to be avoided?
Tho most feasible ust manears to lio
 ried men and bualdag stat.able phines on the premises in which they and ther tambles canresido; thas they be emer perman utly settled and feel that they bave a home of their own; their interests liccomes more and more identilied with ouns, and our mithenco is more drectly bought to k... wion than and ther gowng lumhes, so that thes
 and eitizens. Hy thar nurla they wit only board thomsenes lut wo can frcyuently as ul va, xhios of the much needed houschohd assistance, thereby also reli whfuc outachl wins ant dauglaters. It suh a syotcman were and
 especially the duhourer, vomit in beth gatisficed and pemamenty howhen. Another very pleasing chanhe is huad in tle constant improvement wheh is t.knoy place in the conatry. The douse fioset is fint gev. mgaway, and where ouly of thors sime the hardy, poneer could wath dhatulty hand the means to funtishat s.ath oult otake, wi. now find the thrifty fulth with fis lave cleared and well tilled, his humb dwelling replaced by oue more suited to his present wants and comforts, his outhuildugs being renowed or extended to mect the require ments of has increasiug stock, whech is every year becoming moro valuable by importation and direct crosses with puro blood; hus orchards, now approacimes matuaty, suphly every want with the choiecst varities of fruit, and he begins to thmk the pleasme derived from looking at a dew shade or onamental trees will daply rewand him for care and wost of provilias. In short, he just begins to feel a self-respect and independace whia nuse poupuly $\mathrm{In}_{\text {- }}$ longs to his than any wither callum. Theicas another chango which, though nut puodactive of emotions of $1^{\text {licasure, }}$ yt dcmands more than a passing notice. 1 refer to the growing aversion exhibited ly many of our young men and boys to honest, manly toil, the tendency to leave the farm for the whirl and excitement of the city uncertainties of the professional or com; mercial life. The very term "Commerce" seems to carry with it a kind of magic spell, and they forget that it 18 rarely one in a humdred who succeeds in his speculations and accunulates a fortune; yet some agency or patent right; in short, anything that demands travel or produces excitement, has a fascination for the young man that scems irresistible, and we frequently mect sound, able-bodicd young men pedidug the conntry over with some simplo little contrivance. with an energy that would do honvic to a better cause. Commarcid pumsuits are vicrsalued lccause they lie nuvic uswa tho surface and are open to observation, but he who is successful has often, may, alnays, to toil and loboir far more maceasingly than the agriculturalist. This can only be counteracted by making home pleasnut to them, and so cilucating thicm that nork on the farm shall not be consnlured mere drudgery Lut an intelligent use of the resources of nature. Nowhere elso do intelliyence and tiste so readily ripen the conceptions of the mind into utility and beanty. Go to the towns and citics and you will find that a large majority of those who went there as conntry boys, inotead of achicving wealth and fime, have atthincd to less than thoy would have enjoycd had they followed their agricultural pursuits, and many are rapidly sinking into tho lowest depths of degradation and aniscry.
say that the Ontario Viluinary Cullugo is be. ing carried on with much success, and is increasing in numbers and popularity. During the past winter the number of students attending its lectures was upwards of fifty, and at the la $t$ cxanuation liftecin candidates were awarded the Diploma of the Board. The prospect is, thercfore, that in a short time we shall have a shalful veterinary surgeon in every part of the Province, on whom to depend in every case of emergency. The "rant to the Entomel, riral -niety is still contmued with favomrable results. Financially we are in 1 somml, healthy and prosper. ous condition, ant, notwithstauding the very great fallugg of in cur recepts at the fair last year, from that of the previous year, amounting to several thousands of dollars, yet we were able to pay all our liabilities and report a relnhle halance in the hands of the treasurer. With regurd to the Denisun matter I have much pleasure in being able to say that a constderable portion has already been paid in and the balanco is am. ply secureal by murtgage on real estate which lans increased lifty per vent. in value siuce the security was talion. It has been suggested that so grand an opportunity for dis. eussion on agricultural topics as is afforded by the meeting of so many delegates and judges all leading auriculturalists from dif. ferent parts of the lirovince-should not be ost; and althongh the members of the councal might not be able to attend owing to pressure of other husiness at that peculiar tume, yet a meeting might be organized, different topies of discussionsclected, and such form a leading foature of our future exhibitions.

The thanhs of the mecting were tendered the President for his addres. Me was reyuested to funish the Association with a copy of it for pullication. The Secretary, Mr. Mugh Thomson, then called the names of the delegates and ro... the minutcs of the last annual mectia of whih weec approved. Dr. Beadle of St. Čathumo's and F. W. Stone of (inelph were appointed auditors. The nert business was deciding on the place of the next exhilition.
Cot. Jonxiov, of Lomlon meved that it be held in that city, sceonded by J. C. Rykert, St. Catharines.
Mr. Geo. Elhotr proposed Guelph, and
Mr. Jomi M.me, Warden of Wellington, seconded the motion.
Mr. Ind Moncur, of the Comety of Russell, proposed Ottawa city, and Mr. Ancurmind Mcinam; of Lochiel, (ilengarry, seconded the motion.
Mr. Mamtineac, Mayor of Ottawa, submittel a resolution of the Council authorizing the deputation from that city to guarantee the requisite accommolation in the erent of the show being held next ycar at Ottawa.
Mi. Fimhane Mifehell, Mayor of Guelph, submitted a similar resolution, adopted by the Council of that town.
Mr. John Camphell, Mayor of London, subnitted on behalf of the Council of Lor:don guarantice of the reymirel aroommotinn.
Mon. Dasid Ricesur mutcil that Toronto ho selectel as the phace for the neat enhibition.
Mr. D. Stodiart, of 3andiond, seconded the motion of Mr. Mecsor.
After some further discussion, Mr. Recsor withdrew his motion, and the vote was taken, with tho following result:-Londen 77, Ottama 35, Guclph 24.
No other important busincss was trans acted.

## ghuxxtisemments.

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Ta nay man child or woman wion will formand is
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## DEAUTIFUL CHROMO,

Size 13*18, (in 12 Oil Colors,)
Incased ina linadifal llosenoml nut (ill Fmme, wh Class aud lack complete ; this Chromo was madech jrussly for us, Futifled:

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We cannot describe this clegan picture in worls-oit is scopy of the Grighal Printing ly DORE, Suw in the fime to subsumbe and get is 5 Chromo bea
fifuly named for gubscribing for she

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Afrents wanted to canvas for this liaprer; will al. low Agents ats cents on cheh subseraptuma willeivo a sot Sewing, Michine for 100 subscrikes. Now is your wut ! Sjeak guick:

Send us $\$ 1,50$ for an dgent's ombth, ant commence canvassing for the Journit at ente. We wallietarat the \$1.50 after you have taken is sithecrilers. Stalt at unce! Don't delay! Time is money!
 the work.
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 Burna and 8 calds Chilblalns.prains at Bruises Ohapped Hands. Flonh Wounds. Front bltes. Rxternal Poisons mand Cracks. Galls ofrall kinds. Sittast, Ringbone
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Large Size $\$ 100$; Miedium 50c.; Small 25 c .
The Gargling On hat bin in us: ad 1 mament
 fillow directiont
Medidn boar neares: Drugige one of our denter in liathat tha peonfe sny about the OH
Thic Gargling ohtif for tale of all respectative Aral

 nelghbors what givel it thas divit Wenlue duthuins
tric "morcl ant's worm Tablots." We deal hir and liberal with all, ami defy conta diction. Write for an Almanac.

2lanuractured at lockpott, N. M., bs
Merchant's Gargling Oil Cu
JOHN HODCE, Secretary.

## githurhts.

## Toromio Markets.

"Casada Farskr" Omce, Oct, 15, 18:\%. The proluce and provision trades have hecnquict durang the past month. The general tendency ith bread. stultsinnce this day month has been donawards in this market, owng party to dectinng prices in England and partly to the advance which took phace in rallwa reights the last week in september. Tho amount clang ng hands, however, boidin hour and wheat have beed imited, hohters scling only what cotnpelied to do so darley has bedi inutitg pretts freely to the extent o receipts, wheh howerer have bech inuch below what ame formard up to this date last rear. Prices hav wen well maintadad in the vicmity of recent puta tons
In this city the wholesale prices are as follows.-

> FLOUR ARD MgAt.
 \$0 100.

Daineal-ct 60 to et 70 .
Cornmeal-s3:5
Bran-\$13 to $\leqslant 1:$ 80.
Ghas.
Hheat-1:nll, sl $\because 5$ to $\$ 2$..i; Sjring, $1=$.
Haricy-No. 1, 70c 10 \%oc; No. 2, 6Sc. 10 7uc.
ats-39c 10 -10c
Rye-Nominat, none offering
reas-Gic to iSc.
bay and sthak.
Hay, in small supply, at sil to sig fil
Struev-sif to \$lt, in short sumpy
PROFISIONS.
heef, by the side, Nommal.
Nution, by the cirches, Sc fo luc.
Putatoes-per bas ${ }^{15 J G}$
l'ork-3ices, 51750 , small lots.
Dacon-Noncinthts market.
Mams-Saliced, nominal.
Jard-loje 101 LE
Hutter-(holce, isc to 1 Sc , goed whertad, itc to 14: orlinary to medlum, se to 11 t
Lexs-lacked, resh, 10 to Liv,
Checte-113c 0 I2Ic
Drird Apples-9acio 1oc.
sull-Gomerich, si to tosiso;

## LHDRS AND SKIN

Mides-No. 1, cured and hinspected, per lis s'ac, No. 1, insjected, green, SC, No. : , majected, green

Sherjuskins-\$1 00 .
Culfshas-Green, 10c to 100
Wool-Flecce, \$JC.
thR CAYtiE XfaRKIT
Berves dire welghty $\$ 253$ to $\$ 450$ per luo lims
Sheep- $\$ 3108500$
Lambs-125010 s2 50.

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A Dozen Cholce loses; 1 Triompla de Grand
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