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## abe field.

## Steam Oultivation.

We propowe to devoto a ferw articles to tho illustrio tion of the subject of steam culture. There can be no queetion but that the ateam engine is now one of the great facts of agriculture. The circle in which ita more immediate inflacnce is experienced is daily enlarging, and those rho once regarded it with iadifference or contempt, are now disposed to vier it in a very diferent light. Steam culture, at the prowent day, is one of tho realized improrements of practical husbandry. That nmazing sceptic. the
stean cultiration brought no small amcunt of inventire genios to bear on the solution of the problem, and spent some thousands of poands in the futlle attempt to raske an economical sabstitution of stemn for horse power, in tho caltivation of the soil. So early as the fear 1618, ono David Ramsay and a Thomas Wilugosec, obtwined a patent for "Newo, apte, or compendious formes or kindes of ongince or instrmmentes, and other p'fitable invencons, wajes, and meanes, for the good of our Commonwealth, as well as to ploughe grounde withoat horses or oxen, and to enrich and mako better and more fertill, as Fell barren peote, saltc, and sea sande, as intand and upland grounde, within our Kingdomes of Eagland and Irclana, and our Domynyon of Walcs." Thofar-
of the day that the inventor solu his horses as having no frether uso for them, and farther persuaded his friends to imitate his example, we hare apicture, not ouly of tho sangaineness of the inrentor, but of the conflding faith of his friends. Another inventor appeared about this time, in the person of Dr. Richard Lovell Edgeworth, father of the celebrated Maria Edgeworth. Ho patented an engine rith "an endless railway." gomerhat similar to that patented by tho lato Mr. Boydell.

Wo havo nelther space nor inclination to mention the long list of inventors that bave each contributed in a greater or lesser degree to perfect ateam ploughing apparatus. In connection with Mr. Heathcoat's sjatem, patented about 1836, ono fact may be men-


Britich farde. lhas been sileaced by the evidences of its sare utility and decided ecouomy ; and a grent revolution in the farm practice of the "old country" may be fairly said to havo commenced. This being so, we belleve we shall be consulting the wishes of oar readers by giving them some account of the gre whand development of thin incenion, by which ameding remalta bave already been achiered.
Stoum ploughing is by no means a norelty, altbough, until a recent period. public attention had scarcely been directed to it. Long lieio:e the names of Fowler and Howard rese connected with it, sevemil petonta had been talien out, and a varicis of mathenen had been tried. Some of the early ploneers of
bues of that periol would doubtlese esters the two patentees as hopeless Quirodio visionaries, and moah probably suggegi that the namo of the latter should be altered to Wildgoose, as indicative of the absurdly impracticable nature of the scheme. The same genius, Darid Ramsay, took ont other patents in 1690 and 1634, to woik a "gyan or engine" not oaly to plough, but also to deposit manure and aced by sieam nower. Passing over ithree other iaventorn, Whose uncouth names need not troable ne, we come io Erancis Moose, who, in 17 CB , and following ycast, took out no less than throe paients, having for their object "tho diepenaing with animal power in tillage, narigasion, de. Whea we aro told by a periodical
tionel, which is higbly honorable to the foresight and pablic spirit of tho Highland and Agricultural Society of Scolland. In 1837, this Society offered a "premium of sjOJ for the fint saccemful application of stomem porrer to the cultivation of the moil ;" and a. the Society'n Show beld in Dumfrics, daring the same year, $£ 100$ in addition was subscribed, to pay the expensen of exbibiting and working "Healbicoats Plough.: The jadges, although considering the tral to zome extent satifractory, did not feel jusitiod in awrading the prexlum. The Socio:s, however, coninued to offer the paize unil the year 184s. In 1851 Lord Willoaghby D Eremby howed at the Great Fxhihition, In Hyde Park, London, a complete ect of
steam ploughing apparatua. It consisted of two engines,-Ono for each hexallaul. These were cash furnished with a rinding barrel, and gratually adranced along their respectire ents of the felle as the work proceeded. Tracing onward the course of iovention, we come next to the scheme of Messrs. Iiskin, of Stamfordeam, Newcashe-upun-Tyue. In this sgstem a stationary engine wasemploged. a main object of Mr. Fishin weing 'tu dispense with wire ropes, and give of the porter of the engine by moans of a light, endles herpen cord, wuthed at a high velocity, which passed around pulliys on a selfmoring anchor, amb thenee to winlin; hrum. phaced apon the implemen ${ }^{+}$, the aerabution of whithimparted motion to the ploughs." In passitnz. We whil just notice two important fratures in this sest al Gur that the anchors were self propelling. the traselland motion being effected by the detion of the rope round the pulley fixed to the am bire, the wher. that the plound was on the balance principhe, and was steered in eitber direction ly means of loching the wheeds This apparatus nas shown at tice Fios.al Agrecultural Meetirg in 185j; but alihough it created quito a sensation, and the judges considered it "an implement of considerable promise:" nofurihe rencourage ment was given to the inventor liy the suedty, not eren by the award of a medal In the presiuts year Mr. Fowler, of Leeds, exbibited at the Rugal-ociely's Secting, held at limeoln, his steam drubing plough and apparatus. The julges were delightiol wath the performance of this implement, ath wound up theor remarks respecting it as fullows. Sumly llis pueser can be applied to more generalpurp)ses, we arnest! commend the idea to our eogiucery and mechan sts. "The idea" forthwith commended itself to a practical farmer, in the person of Mr. Smith, of Wivolston, who ordered an apparatus of Mr Fowler, with wheh he proposed to work, and afleswards dad worh, lus caltivator. " - An opinion lan been prewalent, says an ablo authority on this swhect, that Mr. Sumb has a claim to the invention of the whole apparatas: but in 1850, at a meeting of the Sucicty of Arts, Mr. Smith a 'mitted 'that his first windlasy wa, constructed by Messrs. Ransomes, under the direction of Mr. Fowler.' I do not mention this to detract from the breat merit due to Mr. Smilh as a pioneer in steam cultivation, but simply that the merat shoud be properly dwided, or giren to the sight parts. I rill, b-wever, remarli in passing that Mr. Smuth has done as mach or more than any other man, in arousing the country to the importance of steam culture, and to the fact that land can be cconomically worhed by ateam power."

We have now arrived at that puint in our subject when we may say it was fairly launched. As get its performances were somewhat limited, but clear heads and clever hands were at worh, and hope.ul men alrcady saw the dawn of a new agricultural era.lailways were being rapidly extended - the steam threshing machine travelled from farm to farm-and farmers began to appreciate the salue of steam-driven machinery, andimbibe a thele fur it we are all creatures of labit. It is therefore not surprising, when once the taste for sponding money on farm machinery is acquirch, tu ste a farmer begin by giving fis fur a patent grindstone, and, by a succession of jumps, end by int eating lenoo for a set of steam cultivating apparatus
Here for the present we mast stop. The large and spirited illustration accompanging this artacle represents the Bedfurd apparatus.-patented by Messrs. J. and E. Iluwatd-as at worh. In thes system, it will be seen, the engine st stamatary, and the steel wire rope which draws the plongli, or cultisa ter, is extended ruand the ficil on pulleys fixed on the rarious "rope poriers, - of whach there are ten represented iu the cut. The wheels fiveri in the cornurs of the field are " auchore"" with the eide pion of that immediately in front of the cangene, which is the "Pstent Snatch Block," also anchored. Tue top of the engraving being regarded as the north, the
plough it will bu remarked is represented as travelling from west to east. When tho cast end is reached, the motion of the engine is reversed, and the plough tra vels westrard, and so on. Tio occupation of the tro men, st.unding one at each end of tho furrow, is to re more the anchorage gradually southeard as the land is ploughed. As we sball hare occasion to refer to this illusiration again, in the further treatment of our subject, wo venture to hopo that our readers will acquaint themselres rith its details.
The buildings in tho distance are the "Britannia Iron Works," ledfurd, the manufacturing establish ment of the Jessrs. Huward. As will be obserred, they have an imposing appearanse, and form alto grether a fine conecption of architectaral genius,dupting luaty to the home of the furnace and the ansil.

## The Midge and Deep Fall Ploughing.

In our issuc ot Sep. 1, we published a communica t.on on deep f.ll ploughing as an extirpation of the midge. The natural history of this insect has been so often discu:sed of late years, that we imagino rery fer of our readers are unacquainted with the full particulurs, but it is a subject that cannot be too often disscussed; each discussion tending to throw some new light on the possible remedies for the pest. Lihe all insect life, the existence of the midge is continumbl through tirce stages, riz: the Ay, the cge and wurm revalting from the ege, and the chrysalis. The $\mathrm{n}_{2}$, as tre all hnow, pierees the outer shell or husk of the wheat, and deposits its egg close to tho germ of the young grain. Whether the egg is actually in the rorm state when deposited, seems somerhat luubtful, wat, at all erents, it gains lifo immediately and fastens itself to the germ of tho grain, feeding on, and abstracting the juices as they flow to nourish the berry, and of course destrosing it. If tho midge comes late, and only deposits itsegg on the full formed grain (eren althourh it is in a soft state, it does little or no harm, as the worm cannot pierce the skin of the grain ; but, if it deposits tho egg at the time of forrering, or inmediately afterwards, it is fatal to the crop Thn worm perfects itself in time, and either remains in the car of wheat till it is carried into the barn, or it leaves the car and falls on the ground below, where it gradually rriggles itself into the earth, to the depth of probably an inch, and remains there till next spring.
The chrysalas as formed insude tho lody of the worm, and reusins in a durmant state until it is hatched by the heat of the spring and summer; it then comes forth as the fly, and again runs its course as before. The midge does not, like some insects, pass through two or three transformations in the course of one year, - we hase but one crop of midge cach season. The midge affects some other kinds of cereals besides wheat, but the great mass oi thom attack tho wheat. The foregoing facis can neither bo disputed nor denied, the observation of every farmer has proved them overand over soain. It is therefore clear that fora considerable ume each year, the midgo is under our contrul, and at our mercy, and if all could bo mado to think alihe, and worl sumultancously in its destrac tion, a great deal might be done to get rid of it.
From, and after harvest, until the month of May followng, the midge is cither in the barn, or, in the ground among the wheat stubhle, whero it fell at
harcest. In the worm state, it has no racans of larvest. In the worm state, it has no racans of loco-
motion further than just wriggling itself into the groum, and wriggics out of itat fiy time. Any farmir who does not destroy, by burning or otherwise, all that come witbin bis reach, in the barn, is a stupid blockbead, and deserres to lose bis future crop. For those on the ground, there is but ono cure-and Thit is deep plougbing with the doublo Michigant
plough, or one that operates in a similar manner. The stubules ought to bo ploughed to nine inchee deep, if posible. Tho skim coulter, or small mould hoart, of the Micbigan plough, nxims ofr the surface he previous firrow, the plougt proper follows and huries tho former gurface at loapt six inches doep,
repeatedly proted, iy tho most accurate sumerican ontomologists, that tho midge-worm chrsealis canno raiso liself out of the carth more than two or thrce inehce. Tho worm and chrysalis lare been buried in greal numbers hy thoso persons who havo mado the pursuit their study, at one, iro, threc, four, are, and six laches deep, and the surface of tho ground corcred with gauzo frames, so that nong could escape as they omerged. Thoso buried fat one, and two luehes, all camo forth in duo season; thoso at three inches in less numbers; at four, less stull; at are iuches, scarce Iy any; nad at six inches, none. It is therefore clear that, if wo can bury them at and below six inches, wo haro them safely out of the ray. As moon as the ground gets warm enough to hatch the clirysalis into the fly, they como forth in the carthand aredestroyed. But, to carry out this mode of destruction eflectually, all must act alike, and at once. Individual effort is comparatively useless. The deep ploughing may be done either in fall or spring before the ily comes out ono is as well as the other; but the ground must nol bo disturbed till the following fall, after the wheat is safe. The ground may be cultivated and cropped with the harrow, but it must not wo ploughed, or the insect will bo released.-a good smothering crop may bo sown on it to heep tho weeds down, or, it nay be cultirated with tho hoe, but no deep cultiration, of any kind, must tako place, or the good attained will bo lost. In Rainham and Walpole, whero tho soil is stiff clay, the farmers, on ploughing for the second time, in spring and summer (after fall ploughing,) used to find tho turned up furrow aliro with the moring chrysalides of the midgo ; but it docs not seem to bave struck them that if they had not plougled the second timo tho midgo rould hare been destrosed.
Now, there aro objections to this plan. In tho Arat place, half the peoplo do not know, and cannot bo mado to beliero in, the importance of it. In the second place, the only sure mode of growing clorer, in this climate, is with wheat, and, in tho piesent stato of Canadian agriculture, wo cannot afford to lose tho clorer; but ro must cither loso the clorer or tho whent. Wo bolicro that it wonld bo an excellent course to barrow such deer ploughed land in the spring, sow it plentifully with timolliy and clover, or clover alono, (of tho latter somo trele or fifeen pounds to the acre) and trust to it for the clover crop. either to stand for two scars, or to be plourhed under in tho fall as manure ; but the plongining must not take place till the midge is hateled into the fly and destroyed
Unfortunatety this system could only be carried out efrectually by legal compulsion, and in a perfectly cleared country,-no one could hope by means of moral suasion to prevail on every one to act in the same manner and at the same time, or the midgo might be so greatly reduced in the course of one season, as to bo comparatively larmless,-but the system is impossible With nowly cleared land, or with
land that caunot be decply and crenly ploughed. So long as new land is to bo cleared in old set.lements, or land encumbered with roots and stumpa is to be cultivated with wheat, the evil must continue to exist in a greater or less degreo. The midge does not ap pear to be generated in any particular locality,-its gencration is gradual, and at first almost unobserved, but it trarels cach year from nino to ten miles dis tunce. It camo into Upper Canada from the East ward, gradually, but surcly, along the laike shore, a the rate above mentioned, each year. It also crossed into tho Niagara District from tho United States; and again it crossed tho Detroit and St. Clair rivers into tho Western section of tho province, making a completo swecp, and general havoc, wherever it went By a most merciful dispensation of an allwiso Prori denco, howerer, all insect planues brisg with them the seeds of their own destruction. After lourishing a few years, there is generated from amongst them selves, a parasito of the ichneumon apecies. This ingect is also a piercer, and deposits its eggs in the holes it makes with its oripositer ; but instead of attacking the grain it attacks the rorm of the midge and haring pierced its body, deposits ono or more eggs. These eggs turn into maggots, which feed, not on the ritals of the midge worm, but on its fat. The midge Form grows, and the ichncumon maggots grow with it, until at last they como to perfection. They then quit tho midge worm, and undergo their ona transformations,-leajing the midge worm in so had a stato that it cannot pass through its necessury changes, and it consequently perishos. These changiu cannot of courso be been with tho naked ese, but tam haro been traced microscopically by mosi relathio naturalists, and the facts are beyond dispute.
Nowhero aro these cbanges moro casily observed than in tho Eaglish currant caterpillar. This is no: tho samo inscct as tho currant and goosebeiry worm so troublesomo hero the last season. In Eagland the red and whito currant trecs aro always moro or less under tbo inducace of tho caterpillar. The arst year thero are a fur, tho second thoy aro in myriads, ait
of whioh go throagh their regnlar transormations,
the third year the ichncumons nupear in equal |project, we will illnstrate the difference in the same myriads; every caterpillar is more or less affected by them, and you see them by the thousand langaishing and dying with the cocoons of the ichneumon worm projecting like spines from evers part of their vodies. The next year there are 1:0 caterpillars, but monstrous quantities of ichneumoas, and they perish for want of their usual sustenance. The year after bere are again a fen catcrpillars, then more, and then the same round of ichncumons destroying them. Some pears there will be a pause, caused liy the F uliarities of the season, but this is the course run, with fow erceptions. Tho samo efiect is produced by time and succession of season, on the midge. In many places which were furmerly derasted, it is now scarcely known, whilst in others, tho pest is in existence, and will remain for its allotted time in full force.
Tbero is no doubt that deep ploughing, and a proper period of rest afterwards, will greatly alleviato the plague, but until all will and can act in concert of nature, in the manner before shown.

## Results of Flax Culture.

To the I'resident of thr Board of 1 Igrialluere:
Sin,-The Annual Provincial Exhibition heing now at hand, I deem it my duty to furnish you with a brief statement of facts in connection with tho progress and great importance of Flax culture in this of farmers who have made the trial this rear. In of tarmers who have made the trial this gear. In
nine cases out of ten they have more than realized their anticipations, while those who liave been less successful do not feel discouraged, but intend giving it a more farorable trial ne.xt year. The expense of habour attoming this crop has hitherto vern an obstacle in the way of the farmer going into its growth as extensively as he might otherwiso do ; and for the bencfit of those who may yet be in donbts about its bring a profitablo crop, with the least
amount of habor. I will conlmaror ti) put in as brief terms as po-sible the statements of a few who have certified to the facts, in writing, which can bo produced if necessary. A parts who resides on a harm on the lake shore, within a short distance of l'ort Credit, states that he was pain for sccen ons of Worts, Streetsville, the sum of twenty-cight dollars, the produce of two and a hald acres of rich flats, having bern previonsly in sod; and afler only one ploughing, harrowed in the secd; hence the ribose produce was within a fraction of sio per acre. Another statement from the pen of Messrs. Gooderham of Worts, she wo the produce of 27 acres to be 56 tons, and as in the former ease, with seed on, at \$1t per ton, produced the net sum of $\$ \pi 81$, or at the rate of S. 3 per acre. In order that farmers may see the
cxact sum cach iten of labour and seeds costa, I anucx a statement in plain tigures. The greater part of this land wiss also sod, and reccived but one ploughing. It may be observed here that this was also a rich piece of thats, near the river Credit, in the Counts of leel, on the farm hnown as the "Meadowville Irarm.

## y 50 uns nt fux at $\$ 14$ parlonn,


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On the $\Omega=$ acres, or in other worls the sum of \$17.53e per acre. Com partes have had four tons to the acre. In Malion and other cranties, three
 15,030 in ath, showing an amoant at $\$ 2 \mathrm{~s}$ per aere, cqual to tho sum of $\$ 120,603$. It is here prost impor tant to notice that a large amount like this paid into the hands of the farmers so early in the season before they have time to convert any other crop into money, is of immense value to them is carrging ont their harvest operations. Diany presume if they commence growine fax they mast give up wheat-growing altogether, but this is not so. Sor sake of argument, suppose there were 5 acres planted on every huntred to the extent of some twenty of the front town ship3, where there are something like 40,000 acres of arable land in cach township, that would give us 10,000 acres of $12 x$ at the remuncrative price say of 20 per acre, the sum of $\$ 1,120,000$ would be reali zed. This may be extended over a much larger
range of townships in tine, and I bave no doubt it vill
Wo will now turn our attention to the effect on the country of having a large quantity of raw matcrial manufactured into marketable goods. Before going into minute calculations on this brauch of the
amnunt of capital expended in the purchase of wheat and converting it into flour. We Nill take ia round numbers $\$ 20,000$, invest it in wheat, send it to mill, have it ground, and no one is the wiser, other than hoo merchant, who first makes the purchase, the milher who grinus it, and the few teamstery who haul it to the nearest point for sbipment, and thero is an the purchase of fax, and before il can bo brought into market an outlay of at least ten dollare an acre s required to convert the raw material into marketable goods, this amount is spent in the neighborhood in tho emplorment of a class of the community who could carn littlo at any thing elso, as the jounger classes aro competent to do a vast doal of the labour belonging to this branch of agriculture. In apinning and weaving there is also an additional mount of labour required, which causes a largo expendituro. At Strectsville, whero the lateat more hat been male in this direction, and a largo amount of capital emploged by the enterprising firm of Mowns, Gooderham di Worts, in the flouring mills, the worke are
carricd on by a few hands, whereas at the linen factory and flar works, with a similar capital, some 100 or 150 hands are emplosed, and mott of them learn the trade, and becomo adepis at the businese. At all tho other worls now in a state of advancement, viz:-Norval, the Mesers. Perrine, county Waterloo, those of Messrs. Elliot \& Hunt, of Prenton, tho mills at St. Mary's, and others of lese note, are busily cogaged this season, and a large number of hands find ready employment
Finally, Sir, the prosperts for thin new branch of Canadian industry are most promising ; not only an a source of mealth to the farmer, but the manufacturer in the face of his large outlay for machinery, de., likely to have the most favourable revulta from the high price be is ablo to realize from his sale, and the demand for erery description of linen goods in our own market ; therefore this new project is well wortby the attention of the Board of Agriculture, as well as tho Legislature ; "t boing yet in its infancy, only requircs to be festered and brought permanently under the notice of the public, especially parties of enterpriso who have capital to invest. I woald take the liberty of suggesting the great advantage to bo gained by inporting a quantity of
"higa" seed, cither by the Board of Agriculture, or by th3 Government, which may bo done through the Burcau of Agriculture, Quebec; as it is well known in all flax growing conntries that fresh secd is always sought after. Tho tind in general use is " Riga," so favorably known in Ircland and other flax growing countrics. This having been already tried by practical parties on a small scale in Canada, the produce of fibre was found to be, under the same cultiration, not leas than sir inches longer than that produced from native seed. This wonld only require to be done ono "ear, as it is good for hiree gencrations, by using caic, like all other crops to change from one locality so another. Tbis seed could be put into the hands of the rarious millers advantage among the furmers, the first cost would readily be obtained, and could be refunded, elther to the Gorernment or Burean of Agricniture. The example has been set by the State of New York crowth of fax in that Slate alone; and one of the largest linen manufacturers in Patterson, Niew Jersey, has beca allowed to briug in machinery duty free from Ireland, to encourage tbis now and valua ble branch of manufacture. While this is being done by our neighbors on tho other side of the lines, Wo should not be behind in Canada. It in also desirable lecture, should be kept before the pablic, with iew of secping their attention directed to this crop all of which will tend to make a widor geld for
emigration, and creato internal realth in the country. It may now be safely said the fax project is a perfect success, although the number of acres did not reach the amount expected thin year, the number of tons will far exceed that of any former year, and will be followed up with a great excess in acres this coming spring.
Tho applications made from time to time for infor mation on this subject, both by letter and personally are largely on the increasc, and those intending to put up additional scutching mills are numerous, to that in the futuro it will be no new thing to hear of a scutching mill being erecied, or a linen manafac tory cstablisbed in any part of Canada, Fith proo pects 80 flattering as thoy appear in any brazech of agriculture this season, Fith peaco and plenty at
crery door, and the bountiful hand of a Find Proridence smiling apon us in thls tho land of ont adoption.

JOEN A. DONALDSON, Gort. Emigration Agent

The Potato-About its History, Value, and Culture.

Tire Common Potato, (Solanum tuberosum,) is ascertalned to be a native of South America, it having been fourd both in Buenos Ayres and in Cbili. It is pecullar to a hilly and rocky soil, and flourishes near tho sea shore. At the time of the discovery of America it wat undoubtedly grown in the Andis of after although anknown in Mexico, and only shortly out in tho United Staten. Tho first colonista sunt it growing wild in that State. The Wild potato has Whito nowern, ita subers aro omall, rarely attaining a leagth of two jachen, sad baro an insipid taste. From thew, by judicious cultivation, havesprung tho almoet innumerable varicties at present cullivated, and adapted to all climates and soctions of the inhablited world. From Virginia it wat introduced iato Eagland and Ireland in 1586. It was innt planted by Bir Walter Raleigh on his catato near Cork; its ant production was cherished and cultivated for food in that country before its ralue was known in Eng-
land. In 1597 Gerard had this plant in his garden under the name of Battata Viminiana, and advised it to be eaten as a delicate dish, not as common food. In the serenteenth century it found its way over tho reat of Europe, but its fullest raputation was not obtained till the nineteenth century, when its innumerable varjetics shed their bleasings on all the atlons of the civilized world
The potato is one of the most important farinaceous plants orer given to the world. There is no artich of human diet that enters so generally into consumption, and from no crop that can be grown will the public derive so much nourishment as from this esculent. It is not only nourishing and healthy, but reliabed by nearly every one. We can in a measure
comprehend its importance as food, when from its comprebend is importance as food, when from its
partul failure through disease or rot, as a few gears since was the caso in Ireland, starvation stared the inhabitants in the face, callsing untold misery and starration and or foreign supplies of rood, actual consequence among a large percentage of the people. It would then seem that it should become a matter of much importance to nourish and cultivate rith the nicest skill, a plant of such value in the domestic conomy of man.
It would be rain in me to attempt to gire particular rules for cultivation which might be universally correct ; for what might be suited to one locality, or circumbiance might, under different circumstancos in different localities, prove entircly unsuitable. A ew thinga are agreed upon as applicable and should be followed everywhere. Potatoes flourish and give the best returus on high, ratber dry ground, in good hcart and tilth, mellow soil ; plant early ; if manured in hill, good compost, well rotted and tine, is as good as anything, and vastly superior to fresh yard bianure, which is, of the two, injurious to the crop low instead of high hill culture; no working among aner blossoming; dig when fuly ripe, not cave
them in the ground through the fall rains, allow them to dry to that the dirt will fall off before picking up store them in a dry airy cellar in small instead of large bulks ; keep at as low, ceen temperalure, as practicable without freczing. These general rules if followed will give results that will saliofy the most particular, in the opinion of the writer who has seen them tried:-Cor. Kural Neto Yorker.
*-Gran that has been injured and become musty may be restored to nearly its original swectucss by pouriag boiling water over it, and permitting it to stand till cool. The scum which arises to the surfac of the liquid during the process of purificstion, should ho carefully remored. Uuless tbe gluten of the grain has become chemically affected-which is rarely found to be the caeo, except in very old grain-every race of mustinest will be remoyed, and the grain rendered Et for use.-N. E. Farmer.
Gram Flaming.-The New York Post noten a corn teld of one hundred and sixity acres, on the graud prairic, in the plowing, planting and cultication o Which no man walked a step. A rolary spader, drawn by four horses, and driven by a man upon the box plowed the feld to a uniform depth of eight inches and gave sach thorough tilth that it was noinccessary to use a batrow at all. A cornplanter, dravin bytuo hones, and driven by a man upon tho box, next planted the seod. A caltivator drawn by two mules, one walkiog on each nide of the knec-bigh corn, and driven bj a man upor the box, completed the culture of a row at singlo operation; and in tho tool-house lay apother machiae, also to be drawn by horges, which
will catidown the corn when it is ripe and lay it in regular rows. to bo analiy gathered by hand. Balit improved as to gatier up the corn also.


Tho Fropert; of Mr. J.ahES MAIIN, Trafalgor.

## Eht Brteltr and Grazidr.

## Premium Suffolk Pigs.

firrewith we present our readers trith an accurate firr:raiture of a pen of Suffolk pigs, exhibited at the riccut Provincial show, and prize-takers on that occ:sion. Our engraving represents a group of reas atiolily well-bred animals that competed successis $\because$ lirs the prizes offered for the best Suffolks,under otu scar. The animals sbown were only six months o!d, and, as wo remarked in our account of this depriment of the show, "are admirably developed, showing the best points of the Suffolks to perfection." Tim parents of these ples rere also prize-takers, and their owner may very properly be congratulated on lis success as a competitor in the piog classes. Mr. Hain is a deserving young farmer of limited means, and his enterprise in importing and multiplying such excellent stock, richly merits not merels commendatlon, but mach more substantial reward. We recommend any of our readers desiring pure-i)red Suffolibs to apply to him.

## Fat versus Health.

The following is an extract from a clever letter in the London Times by the famous "S. G. O." Taking for his subject the disastrous cattic plague at present decimating many of the dairies in Britain, he points out some of the predispoeing causes which invite and foster its attacks. Our selection forms the conclusion of his able and lengthy communication:
"It in a great miatake to suppose that bighly pricileged animals, living on the fat of dairy land, or mazaind-house land, are in real natural licalth becuuse they show no ailment, are porlly and comely to look upon. Nature bas, I have no doubt, very diferent views from our orn nbout healib. We were onginally built to ber order, and then left to our own dicices. We have taken atrange liberties with man and beast. We eatiblish a certain standard of what we call bealth, that is a condition of bods which will
bear decently the indulgeaces in tho way of food in which tre delight. Wiad our beasts we feed for the marke:, making just as far as we can. all the powers of beast nature submissire :o processes calculated to obtain ends of our orn. Mr. Bantigg found roe in fat ; peniten: and reloctive, to deplored his abuse of a too good-natured digestion ; repenting, becume prudent, treated his stomach rith respect, regained the lesser cosporeal calibre of his better nature. Great m'n and women made him their prophet, gladly gave up much daily bread, beer, and loreablo mattora of tood, to reduce their bulk. Natnre is very good natured; if you lave oaly offended ber, not actually maimed her, she only asis of you to do so no more; to eat in fuiure for her saice, rather than your own.Oh that a cow had speech, that an ox could preach, a pig lecerure! Wo should then learn from dairy, stall and sty, that there may we a clean coat, great appeite, muc! fat, and yet a corstitution so artificially abusel, that a feather may turn the scale; one puffrom a blast of miad blowing orer a dead beast miles away may infect this pampered blood, to at once discase and destroy. We roader how so foul a guest could get iato so fair a chamber; we ought to remember that artificial nature is after a sort nature perverted, uature unnaturalised, and therefore ont of health, as such, in a condition in which its force must be weak as against imported disease; an animal bept for our special purpose in a certain condition of what Fe call healib, may after all be in a state of disease, a state altogether unfited to contend with any sudden constitutional disturbance.
"I once ventured to remonstrato with an agricaltural enthusiast on the strange diet and treatment to which he submitted bis farm animals. Me pitied my ignorance. I was told his object was to get rich manure for his felda, and to clothe the creatures he fed with all the fat be could, as the sold by weight. I orn I was of opinion, that any animal used as a mere manure mill, taking toll of what it grovad in fat. could not be in a state of heallh. I was inclined to argue that oil-cabe and saccharine vegetablo food given to an ox, kept from cxercise, in quantlity samb cient to corer heart. Lidncys, intendaes, tho whole
frame, with fat, until the animal appeared moro fil for the telow vat than tho kitchon, must be an extraordinary liberty taken with erery natural condition. I could no: seo that a pig fed with greares and tho boiled flesh of animals, killed to save them from dyligg, horerer fat and sleepy it might become, however valuablo its outgoings, could be considered so much by weight of edıble wholesome bacon. I had my own doubts how far manare thus obtained would grow sound crops. I Fas inclined to think the roots might be grown rery large, but of such weak, forced cellular substance, that they would be liable to rot under atmospheric conditions in which roots, less artificially driven to size, would preservo health. In my ignorance, then and sinco. I bave expected a day would come when we might purchase a fine Wheat head tos dear ; that continucd choice of the best earproducing seed, and ita cultivation ander the high pressure of strongly prepared manures, would lead at last to a plant unable to stand cold nights, heary dews, and then we should have a Wheat disease.
"With regard to dairy cows, I firmly believe that in the best of dairies there is too much of experiment in the way of getting rich milk, a great deal of it, and a long continuance of milk-giving power. The pail supplants the calf; in a state of nature the calf feeds at interrals, and the udder thus is often relieved. Just as women do among the lower classes, for ends of their own, often nurse too long and suffer for it ; so I belicre we not ouly artificially over-stimulate the milk-giving power of our cowa, but we are apt to force mille-giving action beyond the time that in pasture the calf would seek it, and therefore the mother affordit. We expect our cows to go on giring milk to the last moment we can by any means, bowever artificial, promote its secretion. They may look healthy in an aristocratic dairy, or they may be, as London cellar cows, giving their milk much under the same conditions as those in which thousands of lodging human mothers giro theirs in crowded back lanes. I believe, in both cases, tho animals are not in bealth, the poor cows and poor women are the most likely to breed typhoid diseasc, the richer are then quite likely to be infected by it
" It is in rain for us to speculate on the laws which really govern epidemics; they are mysierics which as get defy all human intorpretation. It is the old story of high authority, "In the midet of lifo we are in diath." It were well for us if we sought the succour iere alone we aro told it is to be found. From time - ..memorial cpidemics havo prevailed; to the cad of 1 :1, timy will prerail. We can study theirsymptoms, 1 learn io predicate where they will flourish besh Whence they come, or whither they depart, is as mysicrious to us as the trarel of the wind. We may bo content to offer to them food in man and beast, neglected, oppressed, and lowered to one and the eame had level; fed first on these they will feed yet on better food; they gather power from vile food to use it on those who fare fumptuously. The cows of a Cabinet Xinister are not proof against the epidemic that slays the wretched cellar cow. We may live to ece cholera equally impartial. But, inasmuch as the gate opened first to these diseases is whero lift, human or bestial, is in a state of neglect, it is as well foe us to keep our lanes, ulle'ss, lodging-bouses, \&c., as clean as we know we ought to keep our cowsheds."

## shetp exusbanary.

## Great Sale of Leicester Rams in Britain,

Tus romantic liitle border town of Kilso has, for upwards of a dozen years past, been celebrated for isg.eat admal sale of rams. Situated so as to be c.is..y accesssible to the breeders of the shires of liusburin, Eerwick, Selkirk and North Noribumberl.md. the Kiciso salo riags bave from the arst been well pationizo.l. Un'il last gear, the sheep entered for sale were not conined exclusively to Leicesters : bui tue growing popularity of this breed, in the districts above indicated, together with the unwieldy proportions already attalned by the sale lists, determined the U'ion Agricultural Society-under whow auspices the auction is beld-in devoting tho sale entiruly to this breed. On the present occasi m , it took place on the Sth ult Four commodious sale rings, flanked by long ranges of pens, were provided for the accommodution of the uuctionetrs, of whom there were no less than eeven. The weather was unexceptionuhly fae ;-the hot rays of the unclouded sun being sempered by a cooling breeze from the west. From the first, the competition was extremely animated. and offere were large and promph. The sulu of Lord l'olworth's rams is generally regarded as the great event of the gatbering, and when their turn carme, welearn from an exchange, "the ring was surrounded by an eager and interested assemblage."
As examples of the prices going for single rams. we may mention the following, paid tor specimens from that nobleman'e luck:-£95; $\mathbf{1 8 3} ; \mathbf{£ 8 0} ; \mathbf{x 7 5}$ £64; and c62. Tue average price of the eatire lock being about 238 . Several other animals, beloaging to well known north country breeders, brought prices varying from esl to $\mathrm{Ef0}$. Several of the best rams were purchased for New Zealand, where the Leiceo ter breed of sheep has obtained a frm position as wool producers-the quality of the wool being superior to the best grown in England. In that colony, the Leicester rams are not unfrequently put to Merino ewes and crosabred Merinoes.

We regret that space will not admit of our appending the result of the sales which rook place at the different ringa. In connection with the returns of these great auction meetinge, the Felso Mail supplies some very raluable statistica, in regard to previous sales. A acries of table are given, exhibiting the highest and and average prices, together with the anmber of entries during the last twelve years. We transcribe the last threc:


- Vartova bruda toclaclod

FIRST PRIZE LEICESTER RANS, AT TILE PROVLYCLAL SHOW, LONDON, LOBS,

the propeity of nf. ceorge n:l.ebr, yarkuay, o. w.

## Prize Leioester Ram.

Tae aecompanylog milustration is a life-like portrait of the magnificent two-shear Leicester Ram, io whom the first honours were deservedls arranded at the late Prorincial Exhibition. We need not dilate on the fine form and massive proporioas of this splendid animal. At present he is unguestionably the dnent ram of his age and breed in Canada, andas we obeerved in our dotice of Mr. Miller's sheep at the recent Fair-be " would do credit to any flockmanter in any country."

## The Dlairy.

## Cattle as Cream Producers.

comparative yerits of vardocs ereeds.
Within the lat few jears, owing to the high prices obtained for butter. \&c., in the neighbourhood of our large townas. is has become a maiter of importance that strict and careful attention should be gicen to the dalry produce of the furm; and i was theretor. induced to undertake a series of experiments upon the variour breeds of milch cattle generally tiept in this country, with the view of ascertaining their comparative value as cream producers upon different deocriptions of food ; and after threo gears of carefal inveatigation, I beg to lay the resule of my labours before the public for the benefit of my brother farm. ers and others interested in the subject.
The results were obtained by tho aid of the Ordinary cream test glasses, three in number, and checked by one mado specially for me by Nessrs. Negretti \& Zambra, and carefully graduated to coiths.
In the arst experiment the conis were grazed during the day, baring bay and chaff only morning and ovening.
siferment 1.

| Breed. | Mean Tempreratura | Preentage of Crian. |
| :---: | :---: | :---: |
| Pare Shorthorn. |  |  |
| " Agraisre, .................... .. | $64^{\circ}$ | 1347 |
| Devisa | $60^{\circ}$ | $14.8 i$ |
|  | $62^{\circ}$ | 18.85 |
| Orem mare............... | $49^{\circ}$ | 17.92 |
| Pare Bithiy, .......... | $83^{\circ}$ | 10.88 |

In the next experimeat, where the breeds are pla ced in their order of merit, each cov had in additiou one poand of linseed cake par diem.
experigent 2.


In experiment 3, each cow had, in a.bidiou to grass, a fair allowance of char, with one y"ust of urewer's grains, and one measure of Thoiliog s cordimenial food dails.

EXPERIXENT 3.

| Hean5, Breed | Yean Temperatura. | Ferce tage of Crevin. |
| :---: | :---: | :---: |
| Cannmel i̇starux | 495 | is 8 |
| Cinss breed, | 500 | 13 - |
| Sjurlorn, | $51{ }^{\circ}$ | 14.0 |
|  |  |  |
| Ayrshire,.... | $80^{\circ}$ | 1400 |

In the following trial each cow had the mati wol is in the lust, excent that 1 lb . of Frecman ual Ifar. den's hoyal l'atent Cake was subatituted for Thoilej's food.

 (frim Messra. Smith, of Liverpool) was nabetitated 4 ir the cake ; in other respectu the food wall the same in No. 3.

|  | Experticit 5. |  |
| :---: | :---: | :---: |
| Bred | Meas | Parceinteg |
| Britajg......... | Temperatars. | orcrea |
| Clumacl istands | .. 630 | 18.08 |
| Cruss Breed. | $5^{30}$ | 18.60 |
| huriturs | $80^{\circ}$ | 18.54 |
| Lexou | $61{ }^{\circ}$ | 17.00 |
| dyrsbiro. | $60^{\circ}$ | 2.4 |

From the two last experiments it will be seen that the cows loweit in the scale as cream producers abow a greater improrement when fed upon a maverial containing mucb latty matter (palm meal containing up«ards of 25 per ceut of fat, than upon food cons:otug of little fat, but much albuminous and mucilagl"10us matter, while the reverse is obeerved in the breeds higher up the acale.
In the foregoing experiments three trials were mada at each time, and each experiment repeated thive.. imes, orer a space of three years (thr trials being.: A made shortly after each calving,) a d the same anl:.'? inals employed in all the experimentil except the last: ${ }^{\prime}$ sear, when two of the cows proved not in calf. Thei figures, therefore, are a fair average of the animals I: had undur trial, and are the result of neariv 270 ex. aminations--G. T. GapI, in Scotish Farm

## Driving Home the Cowm <br> yT mate mate ptivan. <br> Out of the cloper and bluo eyed stam He turned them tato the nyer.ine; One atier anotber be les them pane, Then fastened the meadow bals argaln. <br> Coder the wulown and orer the bill, Ho paticnuly follows tbetr nober pece; The merrs whisti, for otce was still. And sotnetung shadowel the sungry face. <br> Only a boyi and his father had mald Ho nerer could let his youngen go; Two already wero Istig dead Cioder the feet of tho trampllog tue.

But artar tho evening work was dome. dad the fross were loud in the mowor awami, Orer bis shoulder bo slugg bis gun, And stealliblly followes the fool.path darap

Acroes the clove:, and through the whent, Fith rasoluto heart and purrowe grin. Tbough cold was the dew on his hurping feot, And tho bllad bat's attiog startiod bim.

Thrices slnce then has the lanas bena white And the orchants swert with apple bloom; And now, when the cors came home at olght, The feeble cubber drove thism hotae

For ners liad como to tho lonely furm That thres were lging where two had lain: Abd the old majis tremulous, paloed arm
Could never lean on a arnis agale.
The summer dis ster cool and tato; He went fur tho cows wica tho work wise dome; But down the lape, as ho opened the gate, He anw them comleg ono by ona

Bradio. Ebrar, Specklo, and noss, Shaking thelr beras in tho oveblog wend; Cropplan tho buttercupe out of the graceBut who was it following clise bohlady

Loosoly swang in tho iste alt
Tho empty aloere of arms bloe;
and worn and palo from the crisping halr,
tooked out a face that the fathre krew
For Southern prisons will somolmes jawn, And yield sholr doad unto lifo agaln;
And tho daj that comes with a clovis dawn in golden glory at lant may waso.

Tho great tears eprang to thelr moeting eyce; For the heart munt apeak mand tho lipe ase ditmb, And under tbe sllont erening tkies
Together thoy followed the citlle bome.
Torcm.-The touch may be good or bud, fine or, as it is termed, bard or mellow. A thick firm ekin, which is generally covered with a thick-set, bard, short hair, almays touches bard. and indicaten a bad feeder. A thin. meagre, papery skin, covered with thin silky bair, being the opposite of the one just described, does not. bowever, afford a good touch Such a skin is indicatire of weakness of conatitution, though of good ferding properties. A perfect touch will be found with a thick loose skin, flouting, as it were, on a layer of soft fat, yielding to the least preasute, and springing back towards the ingers like a piece of soft thick chamois leather, and covered with thick, glosey, soft hair. Such a collection of hair looks rich and beantiful ; and seems warm and comfortable to the animal. It is not unlike a bed of tine soft moss, and hence such a skin is frequently styled "mossy." The sensation derived from feeling a fine touch is pleasurable, and even delightful, to an amatcur of ireeding. Along with it is generally associated a fine symmetrical form. A knowledge of touch can only be acquired by long practice; but, after baving acquired it, it is of itself a mumcient meana of judging of the feeding quality of the ox: because. When prement, the properties of aymmetrical form, fine bone, sweet disposition, and purity of blood, are the general accompanimente. - Frdarion's Cow and The .Dairy.

## Deterinary Meppartutut.

## Diseases of Jointa.

Rheumatie infammation of the joints is not at all uncommon anongst young colta, calres, and lambs, and consinte in a chronic inflammation of the structures entering into the formation of a joint ; nnd if of loge contionance it is followed log ulceration of one or more parta. The firal aymptom generally obourved is a awelling of one or more of the fetlock joints, which ia invariably accompanied by ping, heat, anil lamencan, with a considerable degree of fere.. This disease generally commences in the luwer jointa and extends upwards. The ferer, in some cases, becomes ro nevere at to frustrate all hopes of a farumable termination. The appetite is gone, and, as a consequerce, the poor animal becomes dreadfully cmacialed, and may be scen lying day after day with intensels awollen joints, while the respiration is increamed, causing beaving of the flanks, \&c. As the disenee adrances, sloughing of the skin takes place, sal the ligaments and tendons become exposed; the sgnovial nembrane ulceratea and gives was, nlong whith the capsular liganent allowing the synoria, a joint oil. to escape.
The canses of thla disease are commonly connected Fith an undur degree of cold, combined with damp or Inauficient nutrition-it may be said to be a sequel to any disease which tends to depress the animal frame.

Treatment. - If obsersed in the early atage, this diseane may be entircly curec; but if sloughing has occurred, and the ligamente and tendons crposed, it is uneless to undertake the treatment of such a case with any hoper of ancens. Eocourage the patient to take - moderate quantity of nouribbing food. If occurring in a aucking colt, give the mother plenty of gooil suc. culent food, an it increases both the quantity and quality of the milk. In regard to local treatment in the early stage, soothing applications should be used, ouch as fomentation, poultices, de. Stimulating and blistering linamente are very injurious, as in the first atage there in a great aroount of irritation in the part already. Internally, tonics may be used with benefit. In some cases the acute symptoms pass off, and the swelling remains. We would, in such a case, recommend the moderate use of stimulating liniments.

There is another condition of the joints termed atanding or knuckling over in the joint. It is seen in the fetlock, when it may only affect the tru hind, and, in some casea, the whole four legs. The great cause of knuckling is by working horses two goung. thun causing the joints to start forward in the direction the animal throws his limb. If this condition is continued for a long time it becomes habitual. When once confrmed it rarely, if wer, gets completely removed, yet it may be, to a great cxtent, if the animal is kept perfectly quiet for some time, and then put to moderate work.
In the treatment of this abnormal condition of the joints, sreating blisters cautiously used are often attonded with beneft. Knuckling, unattended withany morbid growth or otherwise discased state of the joint, is not considered an unsoundness.
Windgalls is another affection of the joints, which, in many ceses, can hardly pass under the appellation of unsoundnees. It is a very common occurrcuce amongat horses, and, in fact, any horse which has done any amount of work has windgalls more or less. If the other properties of an animal are good, this should not leseen his ralue much, unless they are, as in some cases, found to be indications of discase, as for inatance when they are in the immediate neighnurhood of the fetlock joint. When it furms between the suspensory ligament and the tendon, it consists in distention of the burse through which the tendon paseos in going over the fetlock joint. When placed in froat of the auspensory ligament, between it and the cannon bone. It th always meociated with an in-
crease of ajnorin on the fetlock joint. P'articular attention should be paid to the seat of a rindgall, and also to its condition. If it feels hardened and tense with the fetlock pufy all round, and situated in the true fetlock joint, it should be lookel on with sumplcion. If. on the other hand, it is sof. and dianppears on pressure, nat the joint otherwise well proportioncd, athe situated on the bursa of the tendon, as a gencral rule it is not productive of sary harm. These puffy tumours kuown as wintgalls often come on very rapully, eapecially in soung horses ont of condition. If they are put to a hard day's work, and on the followng inorming shew witg galls on one or more legs. they are cansed by the excessico dnmand of the prevous lag. The process of absorption not being equal to that of secretion, the over abmalant guantity shews itself in the form of thin purfy tumours. If treated in thus stage thes may be completely remored, but if allowed to become confirmed. they can lardly ever be curel. Allow perfect rest, and tie up the paris firmly with bandages dipped in cold water. This cominneld pressure promotes both abeorption and eraporation. After applying the bandages for some tienc, blistering liniments are nseful, bat should not be applied too serere.

## The Gliary.

## Management of the Apiary for October.

It evergthing has been properly attended to in Sentember, but little is required in this month. Any boxes of surplus honey that have not been taken of divulit be remored now. Stocks that hare net honey enough to winter them may yet be fed, and no time should be loat in doing so. If arones still linger about a huve, it is evidence that it is queenless, or las a drone-laying queen, and should be examined at once. In cither case it should be taken up or a weak stock may be given to it; by so doing, the stock may be sared, and the weak stock made strong Keep a a good look ont for robbing, especially on warm, sunny days.

Fremng Bees in Attims:-On this subject the Garteners' Chronicle has the following:
"The food we prefer fur autumnal feeding is composed of 6 lb . of loaf sugar, 4 lb . of water, and 1 lb . of honey clear run from the combs. The sugar and "ater are hoiled together for nbout five minutes after the boiling beat has been reached; when remored from the fire the huncy is added, and stirred in while the liquid is hot. The tood must be allowed to cool before it is giren. The addition of honey makes the food particularly palatable to the becs. They will frequently take down from a well constructed feeder, wany pounds in the cunrse of a single night. When the object aimed at is the supplying of a sufficient quantity of food to a hive already well filled with combs, it is desirable that it be administered as speedily as is consistent with satety from the attacks of robljers; that is to say, as much may be given each erening as can be taken down by the bees during the night, and continued until the hire is made up to a proper weight. On the contrary, if the hive is deficient in combs, a smaller portion of food mas bo supplied on each occasion, and the feedong be continued for a much longer period. The hiveshould be weighed both before and after, and no reliance be placed on the actual amount of ford to which it has placed on the actual amount of focd to which it has
been treated. The bottle-feeder is the one most to be recommended. An ordinary pickle-pottle is filled with the liquid ; the mouth is covered with very gine net, or coarse straining cloth ; a piece of perforated zine is placed over the hole in the bivo, and the bottlo inverted over it. If properly done, not a drop will escane into the hive, ulthongh the bees are capbled to take down the liquid rery rapidly. A smaller sort of bottle may be used for feeding of a more limited charicher in autuman and in spring. All feeders should be closely covered over su as to aroid, as much as possible, atracting the atiention of robber bees. If thus protected, it is not necessary that the bottles should be removed every morning.It is weil, however, to contract the entrances of all bires that are being fed, which will enaple the leee more criectually to repel inianers?:

## Extomolagy.

## The Turnip Oaterpiiar,

Some few weelis sinco wo receired a commanica tina from a valued correspondent-Mr. A. Fisber, of 'he Windfalls of Blenheim, County of Brant, C. W.respecting the ravages committed anong the turnip - rups $\therefore$. his neighbourhood and the adjacent township of Dumfries, by a multitude of small caterpillars ; we have also been informed of their occurrence in the vicinity of St. Mary's, C. IV. We regret that we have been obliged to defur affording him the information he desires regurding the name, ete., of this injurious insect, in cunseguance of our space having been so much engrossed by the all-absorbing topic of the recent l'rovincial Exhibition; however, what we now present to our readers, even though too late, perhaps, to be of much adrantage this season, will we trust, prove serriceable, should these caterpillars make their appearance another year.
The flics le sent us, and which bo considers to be the parents of the eges from which these larra are produced, prove, on examination, to be specimens of an (Ophion purgalus, Say), which, like all the rest of its family, is parasitic in its larral state on other insects. What he supposed, therefore, to be the depredators, were, in reality, theis greateat caemies and our true friends, to whom, indeed, we no doubt owe it, that these noxious caterpillars bare not spread over a greater portion of the countrg. His account, lowerer, of the babits and appearance of the caterpillars affords us much valuable information, as he bas been $x$ carefil and patient observer of them. He states that "the eggs are deposited on the under sides of the leaf, and vary from about 150 to 200 in number ; thes are of a light gicen colonr, arrayed in symmetrical order on the under part of the leaf, gencrally near the tip, and fastened securely together and to the plant, by a riscous substance. These egge, deposited at night, are hatched by the heat of the sun in a few dayz, and from them are produced numbers of little worms, at first of a pale greenish yellow colour, and less than an eighth of an inch long. These remain for a day or so on the leaf, and at first almos: on the spot where they were hatched, eating only the under side of the blade; and in this way the numerous frayed leaves are caused, which is the first sure sign that the peetiferous insect host is upon the crop. In damp weather the caterpillars grow atagreat rate; but from comparing their habits and progreas last year with this, I am of opinion that the latescorching draught bad the effect of considerably retarding their progress. This, at least, is true, that at this date last year (and tho plague spots appeared first exactly at the same tifue this gear, viz : about the I8th of August,) the worms had attained to nearly an inch in length ; whereas I have not scen any of this year's brood above a quarter of an inch Lasi gear they committed most serions ravages in Dumfries, cating up first the leaves, and then the heads. They continued in force up to the time of the October frosts, and indeed till the turnips, or what remained of them, wero lifted. In fact, if this creatore is allowed to go on and multiply, it will become a pest no less fatal to the turnip. than the midge is to tho wheat. The only way in which it can be kept down is by picking of the leaves when they appear iofected. In this way a couple of children will destroy literally hundreds of thousands in one day, as the various broods which afterwards spread as single and independent foragers over the whole field, are at first congregated on one leaf. Jany of my farmer friends have thes ycar adopted this plan at my recommendation, and the result is that they bave greatly, if not in all cases eatirely, got rid of the vermin. Hand-pickiag, then, I believe is the unly effectual remedy, and it ought to be resorted to at once, for the caterpiliar in favourable circumstausies grows at a great rate, and attains the size of an inch and a half, consuming evory day mare
than ten times Ita own weight, cither of the leares or bulbe of the turnip, wible seem to le its special, if not only food. The end of this creature in the caterplliar form is a chrysalis, which state it assumes in October, and drops into the ground, whero it remains till the next ycar, to come forth in multiplied armics in the winged slate."
Such is Mr. 'Fisher's account of this destructive insect. From it we should judge (not haring seen the larrec or imago, as they have not occurred in our neighborirbood), that it is identical, or, at all erents, an allied species, with the turnip-caterpillar of England (Athalia centifolioc, Albin), which has often proved to be a most obnoxious insect enemy. it belongs to our oll friends (or ralber focs), tho Te thredinidar, or asw-dies-a family of Usmenopicra so which we bave before referrei in this department of The Canada Farxer, and in which a large number of our most destructive insects are included. So long ago as the year 1720 , this insect was observed in England, and it is recorded that whole fields rere at that time deatroyed by it; in 1782 it was so numerous that many thousand acres were obliged to be plouglsed up; and again in 1835, '36, and ${ }^{\circ} 37$, it was exceedingly abundant and injurious. The fy is described bs Professor Westwood as "a pretty sellor and black species, which first appears about the beginning of June, deponiting its eggs within the parenchymatous tissue of the leaf, introducing ber saw betreen the edges of the cuticle; and from which, in tive or six days, the larre are batched."
With regard to the best remedy for counteracting the ravages of these insects, wo quite agree with Mr. Fisber in giving the preference to hand-picking; in very many cases, indeed, it has been prosed to be the most effective modo of getting rid of insects. Cbildren can bo cmployed at a trising expense to collect and destroy tho caterpillars, and if this is done, as suggested, when they first appear upou the leares, the numbera that can be thus got rid of in a short space of time, are almost beyond computation. Another remedy, kindly transmitted to us by a cor-respondent-Mr. Joseph Llowes, of Nissouri,-is the following:-"Take a pound and three quarters of soap, a fimilar quantity of the flower of sulphur, itre pounds of campignons or purf ball, and fifteen gallons of water, - When the whole is well mixed by the aid of a gentle heat, spriakle the insects with a smull
watering-pot, and fi will linstantls kill them." Ie also states that simple soap-suds hare been found eminacious.
A remarkable circumstance in connection with these insecto, has been menticned by a writer in the "Philosophical Transactions." He states that the turnip sap-dies hare becn observed at times, proceeding in vast numbers from ono part of the country to another, and even taking fight across the sca. $A$ farracr declared to hins that he saw them arrlve in clouds, 80 as to dartyen the air; while the fishermen asserted that they had repeatedly seen flights of them pass over their heads when they were at a distance from land; and on the beech and cliffs, they were in such numbers that they might have been taken up by shorelsfull. Three miles inland, they were described as resembling sfrarms of bees. This ras on the east coast of England, many years ago. If this narration be correct, their singular propunsity for emigration may account for their ar. pearance in such widely-separated parts of the world, and at such irregrlar and unaccountable periods of time.

Brads and Bats.-We know of nothing more crue: and heartless than the wholesale slaughter of the small birds so common in our towns. The farmer owes more to the birds than he is apt to admit. Tiey destroy ianumerablo insects which would prey upon his fruits and injure his crops. If the robin, the cherry bird, the cat bird. or any other, is disposed to make a dive at the strawberry bed or the cherry tree, there are modes of preventiog them from taking all If they want a few, better let them have them than to kill them. Don't destroy the bats. They do an untold amonat of good io catching the nigit. AFing moths, some of which are the paren!s of the most destructive Forms and insects; nor do they do any harm. Thero wha a time when we, in common with most other boys, mado a practice of striking down every bat we sarf, with a sort of feeling that we were doing a good thing. It was a mistake, and wo ar: sorry to have a single bat on our conscience. Bats do good and only good, and the farmer and the farmer's boy shodid be the last to harm them.- itico

The Stausehatd.

## Rules for Home Education.

Tire following aro morthy of being printed in letters of gold, and being placed in a conspicuous position in every household:

1. From your children'searly infancy inculeate the necessity of instant oledtence.
2. Cinte firmness with gentleness. Let your children always understand that you mean exactly Fhat 5011 say.
3. Never promise them anything unless you aro sure that youn can give them what yon promise.
4 If sut tell a child to do anythling, show hirs how to do it, and sec that it is done.
E. Always punish your children for reilfully disoberging jou, but never punish when you are angry. 6. Nerer let them percuive that they can rex $j$ ch or mate you lose your self command.
i. Never smile at any of their actions of which you do not approve, eren though they are somewbat amusing.
4. If thes gire way to petulance and temper, wait till thery are calm, and then gently reason with them on the Impropriets of their conduct.
5. Remember that a little present pnnishment, Then tho occasion arises, is much more crectual than the threatening of a greater punishment should the dalt be renewed.
6. Nerer give your children angthing because they cry for it.
7. On no account allow them to do at one time what you hare forbidden, under the same circumstances, at noother.
8. Teach them that the only sure and easy way to appear good, is to be good.
9. Accustom them to make their litte recitals the perfect trutb.
10. Dever allow of talebearing.
11. Teach them that self-denial, not self-indulgesce, is the appointed and sure method of securing happiness.
Wiat is Salematis.-Wood is burnt to ashes, ashes are lixivated, les is the result. Ley is eraporated by boiliug, black salts is the residum. The salt undergoes purification by fire, and the potash of commerce is obtained. By another process, we change potash into pearlash. dow put these in sacks and place them over a distillery wash-tub, where the fermentation evolves carbonic acid gas, and the pearlash absorbs it and is rendered solid; the product being heavier, whiterand drier, than the pearlash. It is now saleratus. How much salts of ley and carbonic acid gas a human siomach can bear and remain bealtby is a question for a saleratus cater. Some people so, saleratus will not haria the stomach. It is a ley. - Er.
A Usefce, IInt.- A person leaving a rarm room, and going into a colder, or into the open air, should carefully close the lips for a few minutes, until he has become, as it were, acclimatised to the colder atmosphere, and loreathe through the nostrils alone, by which the cold air is made to trarerse the long, warm, nasal passage before it reaches the Findpipe and vocal organs; and its temperature being thus raised, one common mode of "catching cold" is aroided. llust persons upou leaving a warm church or hot concert roum iumediately open their mouths to aiscuss the merits of those they have just heard, and many a serere cold is taken. It is equally common, but still worse, for a public speaker to do so, for his throat is nure heated from his recent exertions, and the may, and often docs, become boarse for a month by such apparently trifing neglect.-G. W. Smith's Clerical Eocution.
Stramberny Stuort-cane,-The following directions for making a siramberry shortcake are from Mra. Nofes of the Oneida Community:
For a single cake (keeping, of conrse, the same proportions for larger quantities) take half a tea-cupiul of sour cream ; one cup of sweet natix: a emall balf tea-spoonful of ealeratus, and finur cnougle to make a mixture somewhat soft:r thon common piocrust. Spread it by patting wi.t the hand (never with the roller) into a cale of 'lie sizo of a pie-plate. Bake in twenty minutes. Sp is the cale while hot from the oren; spread the halves with butier (liberally, if it is good, and corer them with strawberries, priviously hulled and mixed wi.th plenty of sugar. If the strawberries are large it is best to cut or smash them a little, so that they may be well sweetened. The cake thus prepared should be eet in the oven two ur three minu.es before it is serred, to harmonize the temperature of the berries with that of the cale.
"Of this digh", eays "The Circular," from which the recipe is copied, "it may be said with more propriety than of Isaac Walton's baked fish, that it ia too good for any wut very bonest people."

## zoultry zard.

## The Exhibition Points of the Spanish Fowl.

I hectent issuc of the Seothish Fitimer containa a highly interasting and critical articlo on the exbluition points of the Spanish fowl. Nlthnugh it is romewhat long, we quote it nearly mabrideced, Leliering it to be well worth the carefal attention of our poattry rearess and fanciers. Afrer somn introdurne: remaris, our ablo contenporary procionds to shat. that the marks of crectlence of such a sp cimint a would be eatitled to compete a' a liaticlase stion, with reasonable prospects of aircios. ari frophinat's set down af rery numerous.
"In some books re are treaterl to mhante destrip tions of the bill, and of the size. coloner. nat palroduns of the ege, and so forth. Sow, provided there : $\because \cdot$ no deformity or disease about the bill and cje, wr can asomre our readere, and especially the onthor of Spanish forls, that theso two menture of the lioult can nerer destrog the chances of nurcu-aful c menetition, when other easential points are oi his't ex:elleace. These paiats in order of valser are-1 A pure thite face, which beging from among the futhers close to the base of the cormb, atel teraidater in the
 shich rises from the under piri of the chuok and is tends back round the ear anil formartis to to wat:le on both sides of the face. Euch wate. tuy $\ln$. rom. sidered a sort of red peninzala of its owi lobse and hanging slightly lomer, being aloo. Itke it, firmad of a double skin, not bag-shaped, but folding slightly outwards. This frontal ruceding of tie wattles from one another exposes tho skin of the throat, ribich being also ribite, and considered a niee point. the larger the portion of it seen all the briter. The surface of the whole of this white face cannot be too emooth, and its depth and width are if posaiblu stl!! more important. The facial dimensinus, indecd, sbould be something astoundiag in these days, if a wail oter be contemplated, or crea a viciory toon in a conter. The fower cords in the upuer fucw, or folls in the lobes, and the rounder aad more regular the white ring over tha ego, the more likely will the lucky wearer of such eren features take a high position in the show room. In a word, the winite face should bo stainless, smooth, cuen, teell-proportinonal, and of wonderful extent.
2. The comb should bo erect (absolutely perpendicular if possible), bigher and longer than in ang other breed, of a bright red colour, regulary gerrated and nicely balanced on the head. The bulance, or firm seat of the comb, is much aiderl by its thichncss, particularly at the base, or point where 11 rises from the back of the head. Tu be called regular, tbe serrations, from being very slight in front. should gradually deepen towards the hinder part of the comb, whert they suddenly run almost out, and not unfrequently disappear altogether. The teeth or peaks formed by these serrations ought to be single, like the entire comb, aprigs in any direction being very undesirable.
Such excrescences, bowever, will appear in wellSuch excrescences, bowever, will appear in well-
ordered yards, but must, to guard aganst disappointment and pecuniary loss, be studiously got quit of by cvery hreeding combination within our reach, clse the vicione tudency will soon defy the correction cven of sargical appliances. A smooth comb is, o course, preferred to a rough onc.
3. The body and legs are, in proportion to the weipht, longer than in the other large brcels; and the neck shonld correapond, being more gentecl, especially in the hens, than is seen in any ofher class, oxcept the game fowl, which is peerless for olegant shape.
4. The carriage is upright and majestic, and the gencral demeanour is gravo and dignified, atiributable in great measure to tho weighty bead ornaments and limited vision, which causo him to step wita caution and throw his head backwards, to reliere so far his burdered neck. Just as his stately limbs and open proportious of body have assigned bim the same place among poultry that a greyhound holds among dogs, so from his carriage tho Spaniard has been styled the auristocrat of the poultry-yard (a rank, wc
humbly think, more justly due to the game fowl): humbly think, more fustly due to the game fowl);
while, looking to the fair apparel about hfs choeks
and neck, together with his general rererend nppear ance. wo bavo ourselves pronounced him the cfergy-
6. The plumage alould wo velvety black, or more correctly, of a metallio green buc, and the lugs a slate colonr up to a dark blue, but the are, cepecilly In soung birds, oren decidedtr blach, and lisis, too, in speciucas of Arst-class excellence.
C. The tail is ample, and long in the sickle feathers; and the eaddle featbers, like those of the hactic, are superine and abundant, the llamburg alone cecel ling the Sjaniard infullness of ornameideal pitunaje.
L.argo size. althought by no means indiepensable (10 mirreas. is to be carefully eolight for, ns, other point evpan, it soasld unquentionably turn the trembing bialance against n pen not possessing it in farour
of biger antagonisas. All pure breeds, begides, have a decided fendency to declension in this reapect, unless comtimalls guarded against. Theso points are amply sunticient, and more than sulficient to dietinguith an cexhitition Spaniard. If, indeen, the first and secuat are in perfection, and the forl is in good order. the remaining points are almost eure to be prosent also, supposing all phssical deformity to be ubsent. It is mere irilling to apeak against frathers on the legs or stinted tails. for these and nuch like fallts carnot be present to a so-called Spanisia fowl in good condition withont other unmistake.able proof of base blood, in the shape of a foll and contracted acce or misurible combly and watle. To rendir the lescription nore tangiblr, we have measared the leuling points of a cock which may be migariled in the main as a frair manple of his clas : also a luen of very high developacnt, but rather over bred as re gards fallnest oi lisce laterally, being in this respect (hicelal width) a gort of curiosity. Ahfure gising the hares we may state that the cork is bather low on lis loge and his upper fice isa littesmaller than our favourite stamard. In quality his tace is thia or 4kindy rather than iat, iutermediate betwen a warty and a paper face, but mearer the lather than the formwr. His comb is frous front ts lack hali an incis longet than moat crect ones. The masearemarat of his face, then, is at fresent, in spite of the moult which has been upon him for the last fortnight. If nehes deep in all space above the eqce i-lleth of an inch ; lobes, 3 \} inches wide as the bith itmate, but of eqread laterally with the hand, that in, as the buece appears when the head is drawa hackwards, the lobes thus faliing out towards the shoalder owing to the projection of the neck. It is Jrequentiy so seen when the cock stands resting in his ran in a sleepy posture-ind many tame well-irained birds stam so in a show-pen from ten to twenty minutes at at tune -ruite regardleas of visitors grazing at his stupenlous fice. The head is $2 f$ inches thick, rather gented for the oticer dimensions, but the fose it all the thore likely to last ndarnished on this aecoan:. Ithe comb, contuining six distinct serrations, rise incles alm ot the base, and is 5 inches long, reaching well down the back of the neck. Shanh, fiom tise knee to the point of middlo toe. s inches, the enire length of leg hoing 11 inches. Leength of body from point of bill to extremits of thil, 30 ancles. fleaght
 ly surpassed by tro inches, and in a foll inthances by still more.
So much for the cock. The hen, is in mont miods is devoid of all cock feathers, is lath. lighter in weight, and her comb, beidg thinner lint reguired to be very large, tumbles orer one side of the tace, sometimes by a double fold in front, partly ower both sided ; the face not nearly so fat or deep as tha cock's, the lobe cren of good average lens only attempting to bar. Some remarkable specimens are in facial extent little inferiur to cocks of average development. The face of the her referred to above is three inches deep. threc inches broud, or 4 l when spread ou: flat, and the head is $2 t$ meloes thick: comb, 21 inches high, 33 inches long, and having dve distinct scrrations. On comparing her a ith the cock, it will ho seen at cuce that for her sos sho ran boast of far higher development than be, her thickness of fuec being literally $\frac{1}{8}$ inch greater than his. Her body, we are happy to say, is also larger than that of most Spanish hens. It sha! be ours, life and healt i permitting, to discover what quality can be produced intermediate between the properties of these two fowle. The production of a prozeny surerior to either will bo a rich reward for the anrious labones of tro or three breedingseasons. Would that we may strike the golden mean."

Cernag Hens of Siting.-Mr. Duren, of Wobura Sass, writes the Ver England Iormer, that be cures his hens of sitting by shucing thom in a tub with an

- ir two of water on the bottom, daring the day Yu them on the roost at night, and if not cured, ther will be clad to stand on their feet.


Summer Fed Hogs.
7i, the belimer of Tus Casasm liammen:
Ein, - In your issue of lith ull., you gavo the purnort of a letter from "Farmer," wherein be sayn that there is only one person in Toronto (Mr. Cuff) anil not any in llamilton, who is reads or willing to purchase a single grunter from May to September. I presume I may leare tho as:milton pork packere to speak for themselves, ns they ane as ready with the pen as the cleaver, hat I must say for mysclf that I am ansious now to buy $: 00$ or more good fat young pea-find hoge per weel, hat I know not where to get them in Canada, and, consctuently, like my friend anil namesako in llamilton, am obliged to bu; in ("uivayon, thus sending money to the States, which shoull be kept hero. "Farmer" makes an effort to he very wit!e, by remarking fronically that the communications on this subject that lonve nppeared in your periodicat, have been full of disinterested alvice to farmers. Now docs not the writer of that artiche how that the true principles of trade are mutual alvantage. If the farner gets ic. per lb., live waight, for his bogs, is he not bencalted by the tratsaction. of course the pork packer hopes to realize a protit, but after all it is very rialy, while the furmer's is certain. To leave your correspondent - Farmer' for the present,-1 am aure the farmers gencrally read our letters with attention, aud though they are slow to adopt the suggestions thercin contained, they are roming round. Cabadian bacon and pork is rising in the esteem of merchants and consumers in England, and if we could only procare a large supply all the year through, it would soon take rank with the Irish and Contineatal. Uufortunately we are only able to send thon a sitthe in the winter. and by the next season they forget What it wis. Just as the retailers there and thear customers begin to appreciate it, the supply ceases.

Sow a word to the farmers of Canada.-If you will mise and fatten plenty of zecll brch hogs, to weigh 200 to 300 lba alire, at 9 to 12 months old, we will lno in the market for them all the time, and surcly at present , rices (which will be high for some time to come), nothing will pay better. I suppose you will wdmit that any ntiention on your part that will cowble Ide dealer to gire you a higher price will be to your bencfit ; if so attend to the following: Breed from good stock, castrate the boars and spay the sows not intended for breeding at a rery early age, bay 7 or 8 weks, feed them well, don't let them run around, then take therp alice to some of the pork packers.

WILLLLU DAVIES.
Tombento l'acsing hut se,
Sppt. 12th, 1865.
Botsicsl. Conmenication Recemed.- "J. C's:' it : duly reached us minus the leaves said to be encluech. It is obvious, therefore, that we cannot publish their names, unless our correspondent forwards us another selection.
Tis are Wutev-lf " A Subscriber," who recently adidresed a letter to us from Co. of Peel, respecting tho non-receint of a Bec-Book,-for which he had formarded the payment,-will favour us with ble ame and $P$. O. address, we will iarestigate the matter in the proper quarter.
Flis Mill Winted in Lindsay.-"Joun Knowleon," of Lindsay, urites as follows:-"There is a good opening for a flax uill in tho town of Lindsay, county of Victoria, the land in that section being admirably adapted to the growth of Hax. A fow farmers in the vicinity of Lindsay have cach grown a fer acres, and are rell satisded with the result, and a :ocsiderable breadth of land would no doubt bo so. a a future, if the furmers saw a prospect of a scu $c$ ag mill being crected within a reasonable sea ce. Those wio bavo grown fily the present
s, bave to draw their far to Millbrook, a dis. tanco of thirty miles and uprards, thero being no mill or market ncarer."

Bexcr siots ron Hogs.-" Samuel Nash, of Hamiltos, writes as follows: "I am informed thero is tho grestest crop of boech nuts this fall that has been known for many years. I am eagaged in packing pork here, and the price is enormonsly dear, and it wonld be a plty if any persors who bare hogs for sale, should, through igeorance of the matter, allow them to feed on beech nuts, and lose the opportunity of aelling their hogs at a splenuld price. Deceh nat pork, for manufacturing purposes, is of uo value only for the amount of grease it will produce or oil. I think you might reader a service to your readers in siving them a timely caution just at the present, cither in your own words, or by the ingertion of mine."
Dran Digono Machins any Climatom-" John Walmsey" writes from Berlin, regarding this subject, as follows:-" In the issue of your valuable journal of August 1st, a communication appears, signed "Edwia Brown," asking what has lecome of Chaso's drain digging machine, invented and exhibited some three or four years ago. With regard to Clase's machine, I can give him no information, but I would eimyly say to Mr . lifown, amd to all interested in the important subject of draining, that I have exhibited, at the last Provincial LxLibition at London, a model of a dmin digger, for which I was awarded, by tho Association, a premium of $\$ 00$, and wheth, I um convinced, will answer the purpose for which it was intended. I do not claim for my invention that it vill lay the pipes and cover them up, but $I$ do claim for It that it will thoroughly clean out the drain, depositIng the dirt on cither side of it. With regard to the draln digger, I may further state that I anabout perfecting an arrangement by which it may bu atiached to my working cultivator, as the frame work and dziv. Ing gear, in their main features, in both machines are alike. I have already patented the revolving cultivator, as also the priaciples of the $d$ sin digger. and will be happy to aford your correspondent. or any other persons interested iu inventions of this kimb, all the information in my power, by there applying to me by letter al Berlin."
"Tur Canaman Bee-Keepers’ Gine.."-" Briar," of County of Carilon, writes as follows :-"I have perased with much interest the "Canadian BeeKecpers' Guido," by J. II. Thomas, and think it jast what was needed, being short, plain, and practical. Heing a tyro in bee-keeping, it is not in any cavilling opirit I make the following remarks on the difference of opinion between Langstroth and Thomas, on many important points; but in the hops of eliciting the trith. First, as regards the shape of the bive. Although Langstroth bas stated ns quoted he adds. -a hive long from front to rear. and moderately low and narrow, seems on the whole to unite the most advantages ;' and in carrying out this idea makes his bivcs only ten inches deep. Langstroth again says: If moveable bottom-boards are used, it is next to impossible to prevent the moth from laying her eggs between them and the $\cdot$ lges of the hives. Thomas asks, 'Will it make bee. more irritable to amoke them often?' and answers, ‘No.' But Langstroth eays: 'After using smoke sometimes tiro or threo times a day, to open a hive upon which I was experimenting, the cunning creatures, instead of filling themselves with honey, rushed out to attack me.' This last fully accords with my own experience. Aner being undisturbed for a tine, I can frequently handle them without gmose; but after smoking, they will sometimes nol allow me to approach tho hive. Again, Thomas asks, Do bees ever die of a disease called dysentery? 'No.' But Langstroth frequently meations it as the effect of improper ventilation, dampness, sour boney, and want of water in winter. It is ratier perplexing to the yeginner to find sucb standard authoritics differing."
Cam-Cut_-"R. N. B." of Niagara, writcs as follows on sundry topics: ‘•Talking a short time afo with a friend, he remarked that cutting clover seed the first year after sowing had a tendency to produce annual plants. The idea was new to me, as it may be to many of your readers, and if true is of great importance, for if we produce an annual clover plant by cutting seed the first year, we had better take sced only from the second or third year's growth, as by that time tho annual plants will have died out. Perhaps some of your readers will give us their opinions on the enbject.

While on the subject of seeds, I think it will be better for each one to raise his own secds, such as turnip, carrot, cabluage, \&c., unless wo can get somo honcet, enterprising person, to enter into the business, for imported seeds are fast losing their value. Somo years ago when you bought imported seed you were sure of getting a good article, but now we hear constant complaint of cabbage and caulidower not heading well; turnips with thick necks and small bulbs, and sometimes, as happened to the writer, with the disease called fingers and tocs; carrots, as I have seen this year, many of them running up to seed, \&c. This comes from planting out inferior roots for seed, instead of selecting the best bulbs and then transplank ing them, I an told that now most of the seed we get is raised lyy sowing in the fall and letting them run up to sced the next smmer and then gathering it ; a deterioration in the ruat crop must necessarily tako place if such a - stem is followed.

I noticed ia the Toconto market reports that penrs were from tiree to six dollars per larrel, the Bergalow bringing the latit ftoure, the birgeleau pear no doubt is meant, and 1 ancely notice it to induce both Reporters and fruit-dealers to " post" themselves in the true names of fratit, especially as the llorticultural and Provincial Shows gire then such a good opportunity, where, as the lills say, "all fruits must be correctly named."
lby the way, the people of our cities seldom get pears in their f all perfection ; the fryit is often gathered too soon by those who supply your markets, boxed up and leit to ripen as best it mads, some are wilted, others are rotten, and but little ia fit to eat those who wiah to enjoy a real luxury in fruit should make arrangencents with some respectable fruit-grower to furnish them with fruit, in good condition, and in such quantities as may be required. Such partieg may be found in Niagara, St. Catherines, Mamilton, aud other places along the lake, where it could be slipped any day by boat or cars."

## The dimula dianmex.

TORONTO, UPPER CANADA, OCT. 1G, 1865.

## The New York State Fair.

We had the pleasure of attending the twenty-fifh annual exhibition of the Ner York State Agriculural Society, held at Eitica, Sep. 12 to 15. As the place a which the fair was held this year is not so well known to our readers as that where it was held last gear (Rochester) it may not be amiss, perkaps, to say a word or tro abont it. LEtica is the chief city of Oneida county, and contains a population of about 25 000. It is situated on the Mohawk river, and at the junction of the New York Central and Utica and Black River ralmaye, and of the Eric and Chenango canals. The city liss on the suuth side of the Mowhawk, rising gralually from the river to a height of 150 feet or more abore it. It is a compact, well built city, containing many elegant stores and fine private residences. The back streets are beautifed and shaded with trees, and the spacious avenues are very pleasant. Utica is distinguished for its public schools. It is the location of the State Lunatic Asylum, one of the largest insane asylums in the United States. There is a large Welsh element in the population both in and around the city. Utica made but slow progress until the completion of tie Erie canal, sinco which time it has grown very fast. It is now one of the most flourishing places in the state.
The fair grounds are about two miles from the business part of the city, but a street railroad extends to the spot, and it was thorefore convenient of access. If wo except the somerbat Acklo and unceriain cha racter of the weather, everything passed off most satis factorily. Tuesday mas a bright, clear day; Wednes day was threatening and showery ; Thursday was un cottled and fiorcoly hot until in the afternoon, a tro mendous thunder-storm cleared tho grounds and scat-
tered hither and thither a deneched and bo-iraggled crowd. Friday was dice, but the last day of the fair is usually a dies non, and the number of visitors was necessarily emall. Despito the state of the weather, the attendance was good, and tho receipte, from all sources, amounted to about $\$ 12,030$,-some $\$ 100$ more than when the fair was beld in the same ciny two jears ago. The exhibition was regarded, by thosi' competent to judge, as a success, and we could not perceive that in any essential feature it fell behind iss liochester predecessor. As we had occasion to cemark last y car, the show of cattle was limited, though it esubruced some excellent specimens. Some good short torns werd exhibited by IIon. Lara Cornell, of Ithaca; Messre.
 Thorne, of Thorndalo ; anc. A. B. Ritter, of Fagette. Mr. Cornell's bull, 3rd Lord of Oxforl, was much admired. This line animal bas been sold to an English purchaser, Mr. Harvey. Some heifers of Mr. Cornell's were also hoice animals. Messrs. Wolcotand Camp bell had .a very promising two jears old bull. sired by Oxford Lad, which attracted notice. Tho Devons were not in as full force as last year, aud then wo regarded them as a meagre part of the show Li Corning, Jr., of Albang, was again sole cxhibitor of Herefords. Mesars. Wolcott and Campoll exhibited nine Ayrshires, some of which were patenculurly good. We were especially pleased with "Baldy." u recensly imported three year old bull. His like we do not remember to hare seen any vhere. The Aldernegs were not largely hor well represented. with one or two exceptions. In grade cattle, there was a large and excellent show. The display of sorking oxen was unusually good. Some fat cattle also were shown.
The horses formed a prominent feature in tho Exbibition, but wo are glad to say there was no racing, at least wader the auspices of the Suesety. A mag nificent turn out of draught horses, owned liy tuo Anaerican lixpress Company, and driven trenty-inband, made a yery fine appearance. Boih in number and quality, the horses made a good display. In sheep, the Merinces as nsual far out-numbered all other sorts. There were sereral exbibuors of this popular breed fromVermont, besiac tho Niew Yorkers, who turned out pretty strongly. Though in a decided minority, there were some goud Corswolds, Leicesters, Southdowns, and Shrops. Thu cheef Lotswold exbibiter was Mr. L. Gasley of Duchess Cuunty, whose one Cotsrold fleece compared so havourably with the Merinoes, at the recent Canandayina trial. He is quite sanguine that he shall yet convme his friends and neighbours of the superiority of the Longwools. Success to Lim, say wr. The Merimo mamia borders on the ridiculous. In the swine department, the show was a good one, particularly the larger breeds, of which there wero some due specimens. A choice and varied collection of poultry was on "xhibition, Messrs. Heffron \& Baraes of Utica, betug the chief prize takers.
To us, by far the most interesting feature of the show, was the implearent deparimenh it is inpossible to give any idea of the variety or excullence of this branch of the exhbition. Houghs. cultivators, drills, horse lakes, seed-bowers, broalcast und in rows; horse-koes and all manner of contrivances for puting in and working crops; bay-tedders, pototo diggers, gant-ploughs, reaspers and mowers id ahouost endless varicty $;$ threshing-machance, fanning-milk, hay pressers, and we hnow not what beside, crowded the spacious portion of the grounds devoted to implements. One coukd not fil 1 to be struck with their substantial make and excellent workmanship. Many of them deserve particular mention and minute description, did our space permit. Several kinds of patent fence and curm gates were shown. Among the latter, was one which struck us as the best farm gate we had evermet with. It is known as " Harral's Aational Gatc." and works upon a novel principie, being hoisted into the air, and standing perpendicular when open. It is casily made, is not hable to get out of order, cannot be lell half open or in the way, and as a snow-gate, is just the thing. We purpose ero logg, to give our readers a fuller descrintion of it, with illustrative cuts.
Noxt to the implenents, and indeed hardly second to them, was the show of dairy products and requisites. An entire hall was devoted to the cleeeses, of which there wero no less than 516, beside the Canadian mammoth, which consisted of 40 to 50 "single" cheeses "rolled into one." The specimens of cheese were chicfly from factorics, very tew being the pro-

Choddar and other styles of cheeses were on hamd. horses extended entirely round the four walls of the In point of size, the dew look dairymen were "lpsed by a canadian exhibitor, Ifr. A. Sminh of of Norwich. Whose now famons " big checse mate is devite at Gita. When pht into the hoop. it
weighed $t, \therefore 10$ lbs., and took the milk of 500 cours turdays for its production. Its apperrance on the fr gruand, drawn by 10 yoko of oxen. With the - rastad quite a smation. It is the largest clicese cror made, but will probably bo ont-done neat year. is the fictorymen of Ilerkimer and Oneida counties withe netorymen of herkmer and
will never gietly suffer themselres to be beaten, will never quiety suffer thems
As an cpisode once in a while, the manuf.ucture of a big cherese may be very well, but a rage for dairy minnt $\cdot 1 \times i$ mint desimable rhey are awhard things fiy muhe mig, shipping, and most of all for retailimg. Some camples evhibited by IIr. L. IS. I.yon. deserie rpechal mention, from the fact that they were made
winhout badages. Instead ofthese, they ate encased "ithout baddages. Instead ofthese, they ate encased
timhty in chan hong liki tho used fut sembar
 cheese to market. These hoops are made in such a
manner that only top and bottom covers are needed when the cheescs are rathly tor shmment. In the rasir of cherese m. uit of the Nuglish burhet, there is of the bandare, and then the dedurtinu made on sccumat ot the handage in Fingland. Cheese is alw 1 es stipped of its clode encasement, on ats arrisal in the Britise marbet, and one pound deducted from webl cheme to allow for it. Mr. Lyoa's cheees were as perfect in chape amp in appramhy us gove cuadtuon as any of the otbers. The show of
dairy apparatus nas bery large, and comprised orvothing needed in this important branch of form indusity. 1 . Rolph \& Co, and O\%eill and Co., ui Luca, had each a large building full of vats of barmuts sizes, hoops. milk-cans, weigh-cans, cheescscrence sybuas for carrying on whey, agtators. curd liniwede yowrs Il a I: Cuoper of Wiatedwa, had alo a dimo dieplay of dary rate, an I Mo-srs Jones dio. exthbited very nice samples of handave cloh. the extenswe assortment of aruches of the ab wiohind. gate unc an impressuse adea ot the magminde of the dary interest in this region.
The Foral tent was nicety arranged, and well filled wita tlowers and frut. The grapes wpecially
made a fiac show. Un Thursday afternoon, an ath dres mainly on Agricultural Educaton, wasdehtercd cas the gromm by Hon G: W. Schofield, of I'ennsylvania. It was able and interesting Gue feature of 14 was a formudable array of of objections apainct farmers and other practical men spending time in the arguisitinn of the dead lamgages. Three discussons
were had on as muy crenings of the Suow were hat on as muy arnings of the Suow weh, the tirst and second were capital, the third on Tribarco culture, was mot regarded with a great amount of iaterest. and wets chetly noted for a sharp and senchbe address by one of the farmers present, on the murality of tobacco raiting A supper "as givin yu Tharsday evening by the city anthoritiss to the
odicers of the society ond oiher invited guents, at odicers of due society ond oither invited gnests. at
which rarious appropriate sentiments werepropoced. and pithy cpereches nade. We are surry to s.y that one lrouincial So jety had no reprosentative at ti, Aew-h ork s:ate fair of the present year, and on for as "e how, wath the exception of the Norwinl Cherse men. "t hat the representition of Canada to ourchives licia is not quite so close to our border as liochuster, stah we conlt have wished to sex at ath we irust another year will witness a beilor aitemance from thas sude of the lones. Uur New York acighbunes welcome us very cordally, treat us very hoepitably, and reciprocate our visiti, whrn we mathe them, very prompty. The benefits given and receis ed by this had of atatercourse, are so numerons and valuable, that it is every way desirable for it to be hept up without a break, and fnstered into yt
cloeer inturacy. cloeer intunacy.

## Lower Canada Yrovincial Exhibition.

Tor great tienuial show of lower Canada was held this yerar, under most favourable auspices, on the 2Gth of Sipumber and following days, at Nontreal. Tue weathor was all that could le desired, and various rircemetauces contributed to swell the number of visi ore. and thus secur the success of the affair in a fianacial pmint of view The Provincial Exhibition, was diridnd into two sections the Agricultural and the Industrial-and a scparate locality was assigneel to the display of cach. A somewhat square field containing about ten acres, and forming part of what is known is the l'riest's Farm, was used for the lave stock and iopplements. Corcred sheds for cattle anul
enclosura. The positions occupied by horess and bully wero partitioned offinto open stals, nud the public were thus afforded most satisiactory f.acilitics for the inspection and comparison of the animats. The shed spuee assigned to cattlo other than butls was not partitioned of; but was merely covered so as to comfortably sbelter the animals occupying it. In addition to the sheds along the walls there were four othas, in the south-west corner of the grounds, which meedy consisted of roofs with a partition run along the midale of each, ro as to accommodate two ranges if cattle. Abose these were pens for the pigs and sherp, merely protected by that roofs, fiar trom being constructed weather-proof. E:istwaid of these pens were three more sheds; one for agricultural implements, another for pontry, and a third for retreshments. In the centre of the grounds a large liug was - 1 apart for testang the acton and going quatities of the horses ; while on those portions not occupied by sheds, the larger implements, fuch as thathur machmes were exhibited. Abont half : mile hath hats tioh and connected with it by the strect riluas is the Crsstal I'alace, where the Chhibition of the Industrial deparment took place. This buhtiong was first opened for a display of atta, masuaf.utures, de.. on the occasion of the visit of the Prince of Wales. It is about 120 feet long by 80 feet wide. It pusstestes two tiers of galleries, and has altomether an avaitable surface for the $p$ rposes of an exthbution of about 17,000 superficial ti ct. On the gromd tloor, stoves, safes, carriages and the heavier gouds sere shown. An open nook on the left was appropriated to dairy products, and an adjoining splate to field roots. In the Girst gallery were cloths, cabmet and marble work, the fine arts, printiog, de. while the upper gallery was occupied with ladies' wolk and a waricty of other light goods. The to:al number of entrits in both departments of the Exhibition, were as follews:-Horses, 236 ; cattle, 510. shecp, 100 ; swine, 130 ; poultre, 278 ? agriculiural produchuns, 122; feld crops, 318 ; dairy pronlucts 175, agric.altural implements, 150 ; total in agriculmral depriment, 2,729; industrial department, 376 : grand total, 3.105. Compared with the number o. catras at the last Exhibitioh two yara ann. Ho Mrathath dep.artment alone showed an increase of abunt 1 100. il his satisfactory development of the proprorions of a really valuable institution caunot lat to lue haghy gratifying and encouraging, not ualy to those who are directly concerned in the mahbement of the itself, but to every Canadian "hin his the uelfare of his country at heart.
Tile chasidiration and actual arrangement of the cathe at the lower Canada slows differ consmer.dsl: froan the practico adopted at our l'rovincial lasiend of haring the Durinm by themselves ri. In woms by themselves, and so on as wath us, they phine twether animals of all breeds which hold the s.ame rauk as regards age, sex, se. For example hegmange with tulls, we had first the Durham four sh... whid bulls; then next to them the Hereford four "Wh bulls: band ; next to them the Devon four year old bulls: and so on. Then we had the cows of the Farions breeds broneht tong ther in the sane way, and so though the whole list. This plan, though it
 isitics of he various hreeds. In this department, boils as weards fhr number and class of animal "xbibited. dure $h$ as a marlied improvernent on previous Lower canaly shows Much of this was due to our Epper rama culibitors, who carried off a large proportion of the bost prizis. For the best aged Durbam bull. G Msher, Markham, got the first prize, and L. C. Pierce. Eunstead, the second. For the best Durham cow the first prize was awarded to J. Aslaworth, Quebec; and the second to F Fyc, Lacolle. For the best De bon batl. C. Courtice, Darlington, C. W., got tho firse prize, ampl i). Briucs, Hunting don connty, C. E, the serome. In Ilerefurds there was comparatively little compmition, as li. Kimpton of South Proxton, was. we believe, about the only cxhibitor in this breed. The Ayrshires mustered in considerablo forco and the compcution wis pret:y close. The show ofsleep as compared with the Cpper Canada Exhibition, w.is Mry reqpertable, but tho fact that Mr. Maller, of Markhani. and nlarr Upper Canada sheep misers were annug the exhibitons, contributed very materi ally to thes result.
Amnng the loorses some very supcrior animals rros slown, the pure canadian brecil being the most muneromsly represented. Some fine animals were
also exhibited among the thorough-breds. For tho best bloonl stallion, 11. Brode, Montreal, obloined the lirst prize; the city of Quebec Agricultural Socicty
fhu srond, for a recently imported stallion ; and $S$. He tuic, Markham, the third for his horse "Star
class at our lato Provincial Fair. The space alloted to pigs was pretty well occupied, and the animals shown were generally crechable specimens of tho porcine race. The poultry department was very tueagrely roprwented, which was somewhat surpriging at an Exs.bicion beld in a largo ci'y like diontreal, whero there must be a great many poultry funciers. The show of agricultural implements was vary poor, as compared with what is witnessed at our Provincial Exhihithons.

The Industrial department of the show, held in tho Crystal l'alace, made a very creditable appearance. Thu display of roots tras not large, but the specimens exhibited were particularly fine. The potatots, turnips and mangolds, could not casily be surpassed. Some fine samples of wheat and coarse grain were siown, but the entrics were comparatively few. The sections of arts and manufactures were not numer. onsly represented, and the display, with the excention probably of furuiture and carriages. contrasted unfavnurably with that recently witaessed at London at our own Exhibition. Simultaneously rith the rrovincial Fair, but not connected with it, was a Horticularal Exbibition I cld in the Victoria Skating Rlink building, in Drummond S.reet, mbeh was under the auspices of the Montreal Agricultural and Ilorticultural Societies. Our Lower Canadian neighbours were thas well supplied with Exhibitions, haviag no less than threc in actire operation during the sane weck.

## Sale of Stock at Moreton Lodge Farm, Guelph.

The sisth annual sale of thorough-bred stock, belouging to F. W. Stone, Hsq., came off on Wednegday, the dith inst,, as previonsly adrertised. A large number of persons assembled at the appointed hour, and among them were a number of notedstock-breeders, from distant parts of Canada, and also from the Vnited States. The weather was remarkubly cold fur the scason, and a most piercing wind rendered it very uncomfortable work to stand about, while it iaduced a shivering and drawn up look about some of the animals, which by uo means heightened their beauty. We have rarely experienced such real discomfort as we endured while tiking observations, and making notes at Mr. Stone's sixth annual salc.
l'rocecdings commenced pretty punctually; the pigs and poultry being first offered. The pig stock coavisted of about twenty Berkshire spring pigs, and some lalf dozen of a white sort denominated Small lorkshires, by Mr. Stome, but haring very decided characteristics of the Suffolk breed. Considering their quality, which was not extra, the pigs went very well, realizing from \$5, to $\$ 20$ each, according to ayo and cacellence. Aylesbury ducksand Doriing fowls were offered in coups containing trios, and brought from $\leqslant j$ to $\$ 6$ per coop, The stock of poultry comprised some very excellent, well-bred birds. Luncheon was served after the daposal of the pigs and poultry, and, with appetites wietted by the cold, a hungry crowd executed summary justice upon the splendid hams and mutton provided for the occasion. Ale and "Irish Malcira" were also pretzy liberally patronized, white the tectotallers presint could not help reflecting how agrecable a cup of bot coffe would be, were it to le had.
At one oclock the sale weas resumed, and tho Shorthorns were brought under the bammer. They rere followed by the Herefords, and last of all came the sheep Wo subjoia a list of the anim.als sold, with their purchasers sad prices.

## suort horis.

Couss and Deifers.-Sanspariel, 5th, rell, calred Feb. 13th, 1SGu, got by 1 idh Duko of Oxford; dam, sansparicl, (imported), Mr. Jobu Osbornc, NassagaWersa, \$3j. Sanspariel 10th, rich roan. calped Lec. 12th, 1862, got by Windsor; dam, Sanspariel 5thtook prize at tho l'rorincial Exbibition at KingstonJ. Mextiañ, Guelph Towaship, $\$ \mathbf{- 0 0}$. Is.beblia 11th, What, calved Jan. 7 th, 1804, got by llojal Turk; dam, Isaljella 5th, Mr. Gibb, Yucbec, Salj. Saus-
pariel 13th, white, calved dug. Juth, 1801, got by 12th luke of Nor:humberland: dam Sauspariel 3rd, Mr. IV. Scolt, New Hamhurgh. \$15.
Buls.-Northern hero, roan, calved Nor. 26tb, 1sul, Fot by lrince of Wales; dam, Cambridge 2nd, and white, calrcd Jan. $104 \mathrm{~h}, 1865$, got by 3rd Grand

Duke; dam, Cherry Pie, (imported), Mr. W. Elgie, Nichol, \$70. Royal Arch, white, calved March 12th, 1865, got by Arch Duke; dam, Mald of Monor, Mr. 8t. Marlee, Laprairie, $\$ 70$. Western Prince, roan anlvad Yarch $12 t h, 1865$, got by Prince of Wales; dama, Sanapuriel 10th, Mr. Gibb, Quebec, $\$ 100$. Lord Palmeraton, red, calved April 22nd, 1865, got by the Yoreton Duke ; dam, Sanrpariel 6th, Mr. John Jack. mon, Peel, 865. Ctristmas day, red and white, calved Doc. 25th, 1864, got by the Xorcton Duke; dam, Mic. Margaret, Mr. Mendersod, Wisconsin, $\$ 150$.

## uIREFORDS.

Meifers.-Gentle Sth, red with white face, calced July 5th, 1864 , got by Sailor, (imported), J. McLeary, for Mr. M. II. Cochrane, Compton, C. E., \$75. Verbena 2nd red with white fuce, calred July 21st, 1864 , got by Guelph; dam, Verbena, (imported), J. McLcary. for M. I. Cochrane, Compton, C. E., \$95. Baroncss 4th, red with white face, calsed June 29th, 1865 , got by Sallor, (imported), dam, Baroness 2al, Mr. Gibb, Quebec, 855 .
Bulls.-Robin Hood, (twin), red with white face, calved Aug. 22nd, 1864, got by Sailor, (imported), dam, Nell, (lmported), Mr. Graham, Yauguan, \$50. Little Jobn, (trin, age and pedigree the same as Robin Hood), Col. Dennison, Toronto, $\$ 50$. Northeri. Dute, red with white face, calved Nor. 2nd, 1864, got by Commodore; dam, Necklace. J. Mcleary, for M. II. Cochrane, Compton, C. E., \$65. The General, red with white face, calred Dec. 1st, 186t, got by Guelph; dein, Gentle, (imported), Capt. Terrel, Bradford, \$65. fis Thomas, red with white face, calved Dec. 2lst, \#864, got by Sailor, (imported), dam, Vanquish, Mr. John Bolton, Guelph, $\$ 60$. Lord Bateman, red with White face, calred Feb. Th, 1865 , got by Guelph; lam, Veata 2nd, (imported), Mr. M. Uakes, Iowa, $\$ 50$.

## sREEP.

Codsloolds.-Threo shear ram, Capt Terret, BradSord, $\$ 30$. Tro shear ram, Mr. Bakes, Harrie, $\$ 52$. Shearling ram, Mr. Graham, Vaughan, $\$ 26$. Do. do., Duniel McNiven, Flamboro' East, $\$ 30$. Do. do., Mr. Henderoon, Wisconsin, \$36. Do. do., Mr. David Eby, Wakerloo Towaship, \$35. Do. do., Mr. Menderson, Wiciconsin, \$5s. Do. do., Mr. Pussic, Woolhonse, \$65. Do. do., Capt. Terret, Bradford, \$46. Do. do., Mr. McKay, Toronto, \$56. Do. do., Mr. Oakes, Iowa, \$50. Do. do., Capt. Terret, Bradford, \$j3. Do. do., Mr. John Stewart, N. E. Mope, \$56. Do. do., Mr.
Kirby, Guelph Township, $\$ 60$. Do. do., Mr. Carpenter, Simeoe, $\$ 79$. Do. do., T. Smith, Toronto Township, 55 .
Leiceslers.-Four shear ram, (imported), Mr. Rout. Strang, Doon, \$32. Five shear do., (imported), Mr. John Card, Guelph Tp., \$22. Three shear do., Alex. Smith, Pumiliach, \$32, Do. do., Mr. Mclaughlin, Sowick, 34. Shearling ram, Mr. W. Reynolds, Mora, \$20. Do. do., J. Kaye, Guclph Tp., \$18. Do. do., Mr. Wealherstone, Mamilion, $\$ 26$. Do. do., Mr. Wealhertone, $\$ 35$. Improved Leicceter ram Iamb, Mr. Weatherstone, $\$ 20$.
Southdowns-Three shear ram, Mr. G. II. Ilighmore, Guclph, $\$ 20$. Do. do., Mr. Bakes, Barrie, $\$ 22$. Two ahear do, Col. Tensdale, Detroit, \$20. Shearling do., Mr. Gibbs, Quebec, $\$ 15$. Do. do. Capt. Torret, Bradford, $\$ 14$. Do. do., Mr. C. Sickic, Guelph Townahip, \$13. Do. do, Col: Deunison, Toronto, \$13. Kam lamb, Mr. Gibb, Quebec, $\$ 3$. Do. do., Mr. John Dlack, Pusilinch, \$s. Do., do., Mr. Gio. Menton, Ancaster,' 11 . Do. do., Mr. Graham. Varghan, \$11. Two shear ewes, 1st pair \$27. 2nd do., 29 , 3rd do., $\$ 30$, Col. Tcusdale, lpetroit. Three aboar do. Mr. Graham, Vaughan, $\$ 25$. Four shcar do., Col. Dernison, Toronto, $\$ 20$.
The prices obtained for the cattle were about the same as lant jear, but the sheep ranged at somerrhat hifher fgaren. Considering the quality of most of the animuls, we consider the prices, with a few exeeptions, to bave been low, and quite expected zeeaer competition over some of the specimens. The Ferefords, eppecially reat cbeap. There are no such Hereforde on the continent of America as Mr. Stone's, and some animala of remurkable cxcellence were knocked down at ridiculously small bids; \$65 was the mont obtained for a IIceford bull. This was for* yougg apimal of great beauty and promisc. Screral eneatures were led out of the ring for want ofan offer munciently encouraging to start them. Oue or two of theoe were inferior animals, which it mouk have been better not to have attempted to sell at all. It puat be coafcied, however, that there is still a great wast of approciation of finc animals among our farmexs, and the dopire on the part of many of them to get chaion paimntiot low pricos, is by no moans creditaHition them. or epooraning to thoe who at grent
risk and outlay, import and hreed valuable atock The Southdown sheep also went very low, and one or two, after being put up at an upset price, were withdrawn for want of a bid. The sale was conducted by Mr. W. S. G. Knowles, who managed his part of the procceding very well. A little more spiritand expodition would, hofever, have been an improvement If the auctionecr was rather too slow, the proprietor was rather too quick, and betrayed considerable vexation when animals offered were not appreciated as they deserved. We understand that 3 rr . Stone usually sells a number of animals at prirate eale after tho auction is over. To what extent he may have done so in the present instauce, wo hare not learned.

## Toronto Union Fall Extibition

Tae City of Toronto Electoral Dirision Societr's Fall Show was heldin the Crystal Palnce and grounds adjoining, on Thursday and Friday, the 28th and 29th dass of last month. The weather proved propitious; but there was a deplorable lack of competitors and spectators. The falling off in the number of the former may be partly accounted for by the fact that the Show followed close upon the heels of the Provincial Fair ; and might be also partially attributed to the very slender prizes which it wus in the power of the Society to offer. The small number of vifitors was no dombt owing to the somerhat inconvenient distance at which the grounds are situated from the main part of the city. At the same time, parties who visited the Show during the first day rere not likely to le templed there on the second. For the amall number of live stock, and the meagre quantity of agricultural, horticultural, and other products were so absurdly lost and swallowed up in merely odd corners of the great space at command, that the effect produced on the explorer was not particularly cheering. A few fine specimens of cattle were shown, chiefly by Ur. Joln Snell, of Edmonton; and as mont of them had been prize tukers at the Provincial Fair during the previous week, another carnival of small prizes fell to this gentleman's sharc. His animals, bowever, haring been noticed in our account of the Provincial Show, in our last issuc, it would be superfluous to enumerato or describe them now. Several other exhibitors showed fair specimens of cattle and sheep, none of which, howerer, seems to call for particular mention. A small number of horses were on the ground, some of which were possessed of frst rate gualifications, in respect to form and action. Pigs and poultry were represented to a limited extent, and we obserred some fine specimens in cach of those classes. The display of horticultural productions, and of arts and manufactures, was held within the Crystal lalace. The show of garden and grecn-house products, though limited in extent, was unerceptionally fine. There cau be no question but that the fruit and tlowers wero entirely superior to those shown at the late Provincial Exhibition. In the fro:t classes we particularly remarked the aplendid collecijon of apples, pears, plums, sereral varieties of grapes, Siberian crahs, and a geacral asortment of fruits cabibited by Mr. Gco. Leslic, of the Toronto Nurserics. Olher deserving collections in the same class were conatributed by Mesare. J. Gray and $S$. Asbby, of this city. Some magnilicent grapes were showa by Mr. Gcorgo Vair, gardener to D. L. HcPherson, Esq.; while the collection of stove and greenhouse plants and doral design, shown by the same exhibitor formed some of the most attractivo features of the whole display. Judgo Harrison also exbibited a largo and beautiful collcction of fowers and planta; and other cxhibilors, whom Fo Fould gladly name did spaco permit, contriouted somo handsomo specimens to this really delightful part of the Exhibition. The display of worls of art, on the south cast wall of the gallery, was not of suficient cxtent and im. portance to call for any special comment. Juat Without the cast door of the building, we obeerved Messrs. J. ii. Thomas \& Bros., of Brooklia, Fith their collection of lises and bees. As at the late Irovincial Fair, they formed one of tho great cent:e of attraction, toFards which risitors gravitated to 100 L masters received four frst prixes, and a diplomes, at masters reccived four
the above Exhibition.

## Soath Wellington Agrioultural Assooiation.

Tar South Rialing of Wellington and Guelph Townohip having amalgamated this year for cxhibition purpoeer, their joint Show was held on Tuesday, the 3rd lnet., at Guelph. Deapite the rather uafavourable atate of the wenther-cold with an occasional drizzle of rain,-the attendance was large, and the display of animals and products good. The total number of entries in all the classes was 9C0. In some classes the Extibition was much in advance of any previous gears, in others it was hardly up to the usual mark. The show of horses was not beyond the average, comprising 75 entries. The collection of cattlo tras, as usual, extenaive and of superior quality. It comprised 40 Durhams, 12 Gallowass, and 48 grades. We have rarely seen so fine a lot of grade catle as we did at this local Show. It far outstripped some of the Propincial and State Fairs we have attended. This circumance proves how great a bencit is conferred on a neighbourhood by the introduction of pure-bred stock into it . The ordinary lerds are gradually improred thereby, anu brougit up to a point of excellence but little short in practical value of the herds that can boast pedigrees. The sleen show was likewime excellent, embracing 53 Leicestern, 30 Cotamolds, and 3 Southdowns. Mr. Stone led on the prize lint, but Messra. Whitelaw, Parkinson, Tolton, and Eirby, also diatinguisked themselres in this department. The display of pigs was limited, but included some choice Berkshires and Essex,-the latter the property of Mr. Thomas McCrac, and prize takers at the recent Provincial Exhibition. The show of Poultry was not so good as we have seen in Guelph on former occasions. A splendid lot of grain was exhibited, though the wheat samples were bardly 80 good as usual. The peas and oats were rery fine. The display of roots, vegetables, and fruit was highly ireditable, though the turnips were much smaller than naual, owing to the drought and insect depredators. The dairy produce was unusually good, especially the butter. Eight samples of bread, and nino of maple sugar, were shown. There were 98 entries of lacies' nork, mont of it of the useful, rather than tho fancy kind. In domeatic manufactures, there were 28 entrics. The implement department was better filled than wo have ever seen it in Guelph on any previous occesion. It comprised 42 entries. Mr. Samuel Kerr, of Eramosa, exhibited some scutched flax of excellent there and great length. He sowed three acres by way of experiment last spring, and has gathered two tons to the acre, a result which ought to encourage him to try again. The dinner in the evening was well attended, and several addresses were delivered. An opinion ariverse to the culture of flax as exhaustive to the land and no more profiable than wheat, was ferpressed by Mr. Whitelaw, President of the South Riding Society. This opinion was combatted by Mr. W. Benham, jr., who contended that fax wes by no means an cxbaustive crop, and that if no more profitable than wheat, it was desirable as a change, and as leas uncertain than that staple and proved of late. The cubject of an Agricultural Inall was mooted. This is greatly needed in the County of Wellington. While maintaining superiority for cattle, grain, and roots, this fine county is allowing lteclf to be ontatripped by adjoining countics (Halton, for example,) in the arrangements for its Echibitions. A littlo energy and liberality would enable the Society to offer larger premiums, and to Increase the clases. Nothing, or nezt to nothing, is now obtained for admimion fees, while with a suitable Hall and grounda for exbibition, a handeome adilition to the funds might eanily be obtained.

Wient Ridng and Towsisatr of Yone Untos Ex-monosi-Wo had the pleasure of attending this Exhibition, but it occurred so close apon the time of our soins to prow, thit we are obliged to defer an accrant of it until our next innae.

## Looal Exhibitions.

Nassagawcya.-The annual fall sbow for this townsbip was held on the 3rd inst, at the fum of Mr. Easterbrook. In atock, thero ras but a meagre eabibition, rlth the exception of the pigs, which were remarkably good. Some well-made implements wero on tho ground. Mr. Johu Ramsay dsew a litge crowd around him by exhibiting his bees, aud proring the cave and safety with which they can be managed. The grain, root, and apple samples wero excellent. In butter, choese, honey, and domestic work, the show was creditable. The "Dunkin bill" luaving jusi been quashed in this counts, after a briet sway, liquor was very freels used at this township exidibitoa, so much so, that it was diagraced by a descent to daticufls, a circumstance, which it is to be hoped, may nerer be repeated on a like occasson.
 tion of these societies was conjointly beld at Fergus. on the the inst. Though the day was cold and uncomfortable, there wis a large turn out, and the lattle town was in agreat bustle all duy. The entries were more numerous than at any previous exhibition. A.s wight be expecied, the catle formed the leading featurt of the show. Mesors. R. Cromar, IV. B. TeJ. fer. A Wist, and J. McQueen, were the chicf exhibitora ia this departmeat. The specimens of grain and roo's weregood. Some fine samples of Limo:hy and fix reed were shown. 27 lots of butter, and 7 sam pies of cheese. were exhibited. The display of l.dhes' work wis meagre.

Primincti. The fall slow for this towuship wia betd at Aberfoyte, on the 5 th insh. It was bighly credimble, and weil manaiaed the good name of the oll 1 towaship. There wis keen competition in horses. there beiag no fewer than 90 cutries. The sheep show was good. Tbere was a large display of grain. roois. and regetables. Four fige samples of Indian cora. and soine very large turaips and mangolds were to be sech. The domestic department was well filled A due sample of white brick was cxhibited hy Mr. James Morris, of Morriston.

## A Now-Yorker's opinion of the Provincial Exhihition.

We clip the following from the Rural Nicw Yurker and doubt not that ta perusal will give our reader much satisfiction :-" Uur correspondent $P$ " atteuded the l'rovincial Fair at London, last week, and wrues us:-"Tho weather was very fine, the atteal ance large, and the recejpis orer $\$ 10,0 \mathrm{JO}$ at the gates, which, with memberships and other receipts, must have made the aggregate ofer $\$ 12,000$. Going directly from our S.ate Fair, I kas enabled to malie a pretty close comparison. In the aggregate it was
 ceed d ours, both in quantity and quality. Thre Hora class unsurpassed by any in this conntry. Ion may judge of the value of the compliment when I kell Sou that Pace of Lew Yore, McMillely and Judge Chaffer of Ohio, Fere on that committer. Tinere were some spleadid specimeas in cach of the o:hor departmenta In coarse woolled or mution shecep they were a loag way abead of us; better sheep 1 never sar. In swide and poultry they excelled us. Their horse department did not come up to ours. The dairy was fair. Domestic IIall was well filled. Tur Garidian ladics exbibitod soms splcadid specimeas of their handirork. which would challenge the beat wort: of their New York cousios. In implemedts the sho: was got large, but in harrows and cultirators they beat us, and some of cach kind migbt be profitably introduced here. The I'lougting Match was a sight to bebolu. Think of pomo 80 or 100 teame and plought competing, bo haogs and men. And such work' Few of us cike the pains re conght in ploughing It would do our hogs good to attend a Cana. dhan p!onghing match. "Tho Fair in every respect was at grand success. Tho hospitality of the people knew no bounds. We could not have boen better cateriained if at the home of a son or brotber. Tbe bearly good will which was every where manifested, both by the oficers of tho Society and tho people, could not be exceedod anywhorn, and I shall alrays 1865."

## An Agricultural Pic-nio.

A soctsl parts assembled on the 7th instant to celebrate the anniversary of the Brighton and Cramabe Parmers' Club, in the Eastera division of the county of Nordumberland. The meeting was to have been held in a very prelly grove, situated on an eminence. udmidst the picturesque scenery betreen the sillages of Colborne and Brighton ; the ladies had made every preparation for a sumptuous repast, and the enjoyment of social inercomse among all agts and cl isses, when further procoedings were abruptly terminated by a severe thander etorm, necompanied by beavy and continued rain. The good things constituting the creature comfonts of a pic-nic. hatd to be hurriedly gathered up, und a large farm-Louso being fortunately hesr at hand, the owner of which bindly sent the party a he:rty welcome, the proceedings of the day took place mader Mr. Irishis hospitable roof, to whom -including bis attentive ladj-the Society, under the emergency. is deeply indebted.

Considering the state of the weather, the party was quite as numirons as conld be expected, und aftel amplejustice hat beren done to the products of the fietd and the gardea, the President. G. S. Burrell. Eigq. introduced l'rolessor buckland, who had beea -pectally invited to address the me ung. The speake: was listemed to by yourar and old ol boh sexes, widt martied athention und approral through a loyg address,-in which he brought under review the importince and leading principles of agriculture. storring that as a pursuit, when iuteligenty fol lowed, it is sminealy callentated to promote the wealth and happiness of nations, and alibe comlucis. t. health of boty and purity of mind. The Profissor relerred at leag. is to the adeantages of $k$ armers Clubs. and said hatat he woud shorils be atore a leisure to visit different parts of the coatory, he rould urice upon agricult.ral sociaties the desirable. ness of oiganiang such agencues, cilhur apart or in conaccio: mith existing sucieties. After ofiering : unmber of practical butyestions, relative to the inproveraent of Canadian agricultare, and sucicters expressung grear pleasure in athending what, perhaps magh be coasidered the firsi parely agricultaral picaic in Cumada, trusting that so good an example would be speedly and widely followed, be concluded an intecestage mat useful addres by statiog that be shoula be lappy to answer, as far as be was able any guestions the company onight put, in relation to the objeces which had brought them together. Sureeral interrogatons were then made, baviag reference cither to agricultural educat on, or to mat.ers of practical firming, the consideration of whels usrec ble occupica another hour. Afier a vote of hankto I'rofessor luckland, the Ladies, de. the President. (whose valuable cexerions in the causo of agricultaral improvement were eridently appreciated.) braugh the procecelings to a close. by a few approprisu remarlis; the company separated bighty pleased notwatisuanding the inatapicious commencumest.

## Agrirultural zatrolligcnct.

Aunual Meeting of the Agrioultural Association.

Tue Ammal Mecting tonk place at London on Friday morning, September 22nh, at 10 o'clock, in the committee room on the show ground, tho undermen:imned Directors leing present, viz:
manalis of tile boarn of agrictitche.
IIon. D. Christic. I'resident; W Ferguson, M. P. P. Vice-I'residunt : IIon. Asa A. Burnlam. Hon G Alexander, Dr. Richmond. A. L. Denison, F. W Stone ; J. C. Rrtert, l'resident of the Association I'rofessor lanchland.
memgers of the doard of arts and mantfactities.
Dr. Bcalty, Iresident; E. A. Mc.Vanghton, James Gladsione, John Shicr, James Cummings, and IV Edrards.
netegattig fhon agrictutctal, societtes.
Addingion.-Joln Sharpe, Richard Williams.
Jrant ( Wrs!: - Constant Edds, Jacob Dingham.
Brockville-W, 13. 1,angrick
Brucg-Wm. Withers. Wm. Jillar.
Carieton-D. Kenneds.
Durhain (IFicsl) - Mathew Jones.
Eyin (East.) -James Armstront.
Eigin (West.)-Georgo Munry, L. McInlyrv.
Fronienac-Reuben Spoone, Dr. Barker.
Glengary:-O. M. Allan, James Cradg.

Ilamillon-Wm. Hendrie, John Nitchell.
Hustings ( North.) - James Archibald.
Lleatings (Suath.)-Sammel 1). Yarles, Wm. Woods. Haron--Robert Gibbons, Patrick Carroll. Fent.-Rubur Wison, Stephen Whate.
Lumbton.-Wm. Cule.
Lanark (South.) - W. O. Bucll.
Leeds (South.) - Wm. Starke, David Bone.
Lincoln,-D. Nixon.
Mutheses (East.)-James Johnston, Geo, Walker. Mudteses ( West.)-R. Moyle, M. McArthur.
Micajara.-S. J. J. Drown, 11.J. Hrown.
Norjodk--Nm. Mclienacl, li. Erysuer.
Northumbertand ( West.) -Thumma MeErers.
Ontario (South) -Jom Slicr. Gco. Ih, igimhottom.
Oxforl (North.) - R. W. S wiell, Vim. Grey.
Oxjord (South.) -James Sculf.
Ped.-k. A. Martley, Lumerson Taylor.
Perth.-Stewart Camppell.
Peterbcrough. John Walton.
Prince Lilicard-George A. Sargent, D. J. Solnes Sormont.-Wahter ColquLom, 1. G. Macdonell. Turonto- Jantrs Flemmg, Alex. Shatw.
Victoria.-Wim. Cotingham, John G, bus.
Waterloo (Aorth.) - IV. II l'eterson, (ico. Randall. IIElland.-J. II. Irice, A. K. Se olteld.
Wedrayion ( North.) - IFim. Robinsun, Jis. IIamilton. Wehington (South.)-Wm. Wals.bw, Col. S.unders. Hentcurth ( Nurtio)-1100mas S.uck. Itenicurth ( (South.) - Alex. Loung, Jobn Renton. Fore (liast.)-A. Barker. Johu Craviord.
York (West.)-1'hilip Armasroag.
neregatis fhom hormictlothl socmeties.
Toronio-Mr. Strachan.
Guciph.-W. Beah.um. Geo. Murion.
Mumilton.-Gico. Lamg, David Nurray.
Mr. J. C. Istiert, President of ibe Associntion. in the chair: Messrs. H. C. Thom-oa, Seere..try of the Boad of Agriculcure and W. Lunards, Seceretiry of the l-ond of Ar:s, joint seceretaries.
The tuanes ot last danal dieeting were read and contirmed.
It was then moved by Dr. Barker, suconded loy Mr. A. K. Scholjeld, That N. J. McGillivray. Laq. of Glengary, 1s: Vice-i'resident, be l're-dene of the Asuctation for the ensuing gear.-Curried.
Moved by Mr. John Shor, seconded by Mr. Arch. Barker. Tuat John D. Wacler, Esq.. of Esht loik, and Yice-President, be lst Vice-President for the ensun.g jear. Carred.
Moved by Mr. A Larker, seconded by Mr. John Shier, That Hon. John Carling, of Londoa, be idu Vice-P'rusideal
Hon. Mr. Carling, being prusent, begged leave to dechue the nomination, as his business engragements would ruder it inipossible for him to discharge the lutiog of the office The motion was accordingly withurakn.
Mured by Mr. Geo. Murion, seconded by Mr. James Sc:urf That Thomas Siock Esq., of Dorif Wentworth, be 2all Vicel'resident-Clarricd.
Moved by Nir. A. Barleer, eceonded by Mr. William Grey Thai Mr IR. L. Denison, be re-elected Treasuter for the current jear.-Carried.
Jored hy Hon. Mr. Carling, seconded by Mr. Jas. Johnsun. That the next Erbibition of this Ausociaton ber held at the Ciis of Toronto.
Mr Denison begged leave to enquiro mbat proposithons the representatires of the City of Toroato were prepared to submit to the meeting in regard to the preparations for the exbibition.
Mr. Mictealf, Mayor of the City of Toronto, and wher delegates from that corporation. being present, warre invited to give information on this subject to the inveting. The Nayor then submitted a docucaent gharantecinz " to provide all the necessary accommodution that may be required to coablo tho I'rovincial Agricultural Arsociation to hold its exbibition." The motion was then put from the chair and carried.
Mored by Mr, R. Gibbons, seconded by Mr. A. R. icholfield. That the old systrm of selecting Judges is e e hoard of Agriculture be contimsed in future. Mored in amendment by Mr. Guy. siconded by Mr. R. W. Sawtell. Thal the diftereat Conaty Agricularal Societics be requested to mana duree persods frum cacls Socicty, and to remd those perwong nawes and the classes in which they are comperent to act as Juidges. to the Secritary of the Buaril of Agriculwre, to ematio the lloard to makic such selection as they may thonk fit from the number.
The nimudment wis put from the chair and lost, and the original motion carried.
Mored by Mr A. Barker, seconded by Mr. John Shier. That the delerateses prescut at the Annual
Meveting of the Asmociation beld chis day in tondon Meuting of the Asnuciation beld thin day in london, give it an their deliberate opinion and conv :llon, that in any smendmuat to the Agricultural E.ll the delcgaten abould buve the riphi to give an opeo voto
for the election of retiring manors of sho Board of for tha electio
Aqriculturt.

Mored in amendment by Mr. Thos. Stock. seconded by Mr. Joha Renion, That this mecting vould recommond the passago of the Agricularal bill introduced by Mr. Cowan in the Sussion of l'arlinment for 186 t. Amendment pat and lost, and main mosion carrice Mored bs Mr. Barker, seconded by Mr. Wheler That a copy of this resolntion bo sent to the Minister of Agriculture, and that he bo requested to use the infueace of the Governmeut in carrying it ont.Carried.
Moved by Professor Buckland, seconded by IIon. Mr. Burahain, That tho Board of Agricultaro urge upon the Government the propriety of tabing measures to prevent the importation into this Province of cattlo from countries where tho cattlo plague is known to exist.-Carriod.
Moved by Mr. Burnham, seconded by Mr. Stock. That the shasks of the Association bo given to the Great Western and the Grand Trunk Lailway Companits. for the liberal terins, and the large amomat of accommodation afforded by them in the convesance of piseingers, stock, aud articles to and from the exthition.-Carried.
Muved by Mr. Groy, seconded by Mr. Ferguson. That the thanks of this Association are duc, and ari hereby tendered to the importers of thorongh-bred stock-Carried.
Moved by Mr. A. K. Scholfeld, seconded by Mr. Dennis Nixon. That tho thanks of this Association be tendered to Dir. J. C. Rgkert, for the very efficient manner in which he has discharged the duties of President of the Association during tho past year.Carried.
Moved by Mr. Barker, seconded by Mr. Sbier. That the thanks of the Association be, and are haroby tendered to the Treasurer and Secretary for their valuable serricos during the past gear.-Carried. The meeting then adjourned.

## Report of the American Agricultural Depariment for Soptember.

## mheat, ohts and hat.

In order to have a record of the injury sustained by these crups from the weather in a scason so extremely wet. the question was asked in tho last circhled as to the: extent of this inju:g. It rill bo observed, then, that it is reported directly in tenths, and that the table shows the injury from the weather only. The eastern and the middle States, rith the exception of New Jersey. escaped vith but little injury, but the western suffered much. In Naryland aud Delavare the wheat Wias injured by the rain, but the oats mil hay not to any material extent.

## cony.

The returns show this crop to bo in a most excelleat condition. It is much besond an average in appearance, and the injury is tribling. In the west the crop is weedy, but the rains contiauing through August aaved the crop from any great injury on that socount. That tho corn would hare been heavier, if clann, no farmer will doubt; and, lad the montles of August and September been rery dry, as wias to be fuared from the excess of rain in July, that it womb have been seriously injured by the weeds, every one will concedu who remembers the light and chafly condition of the corn crop of 1862, caused by the weeds which spruag up during the wet weather in harvest time, atter the crop had been lail by. The hot, moist weather that prepailed during the lirst hatf of September, has been most favourablo to the maturity of tho corn, and it is not probable that it can now sustain any injury, even in the localities where the overfow of waters and the excessive ret held back the planting until rery late. Wio may, therefore, safily congratulate tho farmer in luaving the beet corn crop the country bas produced, and in haring the means of increasing his firm stock-an increase much needed non:

## sorghes.

The condition of tbis crop is goon, and the injurg suralined by it is light.

## rotatoes.

Although the rotarns are 80 far vers favomrable. Jet the rot was provailing in too many places when our correspoadents made their returns, on the first day of Sephember, not to callse fears that this crop may have suffered rerg much from the gencral preFaloace sidece then of warm, wet weather. The tope, woather prevented them from dying to quickly as thes woulh bave done had the wealber been dry:The injurics, otherwise, aro not so great, and thesu
have been occasioned by the potato-bug and overgrowa toph

This crop promises to be a good one.

The conulition of this crop is favonrable generally but in New York it has been most seriously idjured by the lice As this State, in 1860 , produced $9,071,-$
931 peunds of the $10.991,096$ raised in the entire country, it will readily be seen that tho injury of 47 t.uthe, reported in the tablo, resulted it a great loss to the crops. Ifence the advance in the price of hops whioh aro selling as high as 60 cents per pound.

They were never better

## grises.

In the States where grapes are mostly grown, the injury from rot has been verg extensire. As the rape belougs to the dry trade-wind regions, as CaliCornia, it is illy fittod to enduro such weather as we luave lad since the beginning of July. The Catarba has rotied rery much, but tho Concoril his not.

## old wnest

The returas to the question of the amount of this on hand have not been as definite as wo desired, the guestion not haviag been so clearly stated as to $80-$ cure replies of a like charicter. The question has been renewed in the circular to be returacd on the first day of October. But enough is seen to induce a belief tuat the amount is not as great as ras supposed showing that the ligh price and scarcity of corn and potatoes had led to a greater consumption of wheat han usual.
fattenino of hocs.
The table showing the number and condition of these, exhibity in erery State a decrease in the number from last year. Their condition is good: better tham that of last year. Letters accompanging the reiuras of the circulars from many of our corresponden:s indicate that the bogs are smaller than usual.
The cause of this decreaso is obrious enough.Scarcity and the higb price of corn induced the fartaers to sell it, rather than feed it to hogs.

Zar Tho l'ortage (Wisconsia) Register says it is estimated that the hop crop in the vicinity of liilbourn City this fall will be worth $\$ 750,000$.
Whear Chor in Watenloo.-The Wheat crop in Waterloo is turning out splendidly, far excecding the cexpectations of the furmers.-Guelph Mercury.
Tus: Tunstr Cnor.-The turnip crop throughout this section of the country will be a fuilure. The grub, which is owaraing io myriads, has caten cevery green leaf from many of the fields. Tho farmers wifl sumer great loss from the scourge.-Guelph Iferald.

Hor Itexs.- A New York paper says:-The picking is aboutover ; the crop is sery light; the quality, as a general thing, better than last fear's. The price for the first-sorts rules high, with not much actirity in the market. From 40 to 55 is paid in the conntry. At the West, soceral hundred bales were pieked up is castern buyers at about 40 cents; the prico there has since adranced.
Cifin and Price of Wheat. - We are pleased to learn that the wheat in the back tomnslips is turning out capitally in the threshing, and is in erery may fully up to expectations. In fact, it is by far the best crop that has been raised for a number of years back, the farmers have already commenced to realize, and we note quite a number of sales the past fer days in Galt of spring wheat, at prices ranging in the neighbourhood of $\$ 107$ per bushel. This is a good price, and, with the capital crop, should go far totrards serting onr country friends upon their feet.-Gall isporter.
Movanir Fam.-The Guclph regnlar monibly Cattle Fair was held on Wednesday. The attendance offarmers and drorers was largo-not less llan 2,000 persons being in town. Upwards of 350 bead of cande were on the ground, as also a large number of horses. Competition was keen, sales rapid and henvs, and prices liberal, and nearly all the cattle on the ground changed bands. First class stock sold froro $\$ 1$ to $\$ 4,50$, second class, $\$ 3.50$ to $\$ 1$, third class, $\$ 3,00$ to $\$ 3,50$ per hundred, live weight, Mr. Dritton, Toronto. paid $\$ 50$ per head for nineteen fit cattle. Mr. S. Ncad bonglat 20 lead of cattle from Mr. A. Miclellan, of Pusilinch, for $\$ 700$, also 6 head at s:Oper head. Nr. J. Cullen. Pusilinch, sold a yoke of oven for $\$ 110$, and Mr. M. Lynch sold a yoke for S100. Nr. Wikikison sold 2 yoke of stecrs, one for \$15, the oller for \$il. Mr. J. l'belan sold two head of catsh, for \$70; and Mr. Armstrong, Pusilinch, a goke of sterre fur $5: 2$. The arerrage pricca were, for oxen. $\$ \times 0$ to $\$ 10$ perr soke, Nileb Cows. $\$ 35$ to $\$ 35$. An average uf $\$ 36$ pur burnd way riid for all descrip. tions of cavite. Upwarde of $\$ 3,010$ was paid out for catlio. Sereral horems and colls were mold at prices
Farying from $\$ 10$ Lo $\$ 1: 0$.-Gudph Hercury.

## gritish CItaniags.

Great Plocouliva Hatcin-One of the largebs ploughing matches ia England, cane off recently at Thame, in the presenco of an immense number of spectators. Nuch interest was excited by the contest between Purser and Darker, the rival ploughmen of the llowards of Bedford, snd tho lansomes of Ips. wich, for tho prize open to all England. The work done was of the highest order, and the Dedford man was declared the winner.
Extraomdiahy Deapatcu la Marmestago Ofern-ross.-The Bervick Journal relates the following :"As proring the favourableness of the season, we may mention that a landed proprictor of this district, who had 270 acres of grain crops, commenced cutting on the 24th ult., and tinished on the 7 th inst He commenced to stack his wheat on the Dth inst., had it thrashed on the 13th, and sent it to the miller on the 14th. On the 15th a portion of it was converied into bread, and was actually surved to breakfast in the gentleman's own family that moraing. Such an occurrenco deserres to be recorded, and we may add that the wheat in question woighed 64t lbe. per bushel.
Tine Porato Diseise is: Scothand.-The Dundee Adeertiser says :-"Wo regret to hear from sureral quarters in this neighbourlood, and more particularly is the counties of l'erth and Stirling, reports of the rery rapid apread of the potato disease. In sume fields in course of being taken up it has been ousersed that while the appearance of the disease wats rery slight one day, it was necessary on the day following to keep a man at each cart taking out the diseased tubers, while in another day or two those remaining in the ground were almost all affected. It is fuared that if the diseate progresses as it has beca doing, the injury suatained by growers will be cxecedingly gerious, and, coming along with the plague amougst the cattle, the prospects of the agricultural classes are such as to excite considerable apprehension."
New Mux Coupany in Lowdon.-In consequence of the rapid extermination of dairy cows in the metropolis by the cattle plague, a new company is forming for tho purpose of supplying milk to the $3,000,000$ inhabitants of that overgrown city. Tho Agricultural Gazette bas the following remarks on the project:-" Howerer independent adults may be of the supply of this produce, physicians assert that infants require it, and that no good substitute can be discorered. If the overworked motbers fail to support their babies, and cows are not at land to sield a healthy supply, tho childron must perish, or surviro with ill-nourished sjstems to suffer discase in future. Any measure, therefore, calculatod to farour the supply of milk must tend to reduce infant mortality. At present $5 d$. and 6a. per quart aro prices at which London milk is supplied; and it is said that such a price will leare a handsome margin of profit, if
everal cows are kopt under a good system. The proposed 'Dairy Company', of which Dr. Lankester, Protessor Gamgec, and several practical farmers and dairymen are directors, is intended to meet this want"

Ammar. Slaactit.-Dr. Bree, of Colchester, writes to the Field:_uMr. Higgs, the present Mayor of Sudbury, related to mo that bo bad a horse which uscd to pump his own water. I once (he said) had a young bose, about six years old, which used to pump his own water by taking the handle of tho pump in bis mouth ana working it like a buman beiag. The other horses would take adrantage of this, and whea they were thirsty would bite and tcase him to go and pamp for them, in which they were generally succeesful. He would walk up gravely, and tale hold of the handic, and work away. Directly, however, the water began to fow he would pop down his own head and drink. I hare often seen him do this. Mentioning this to Cresswell, the owner and driver of the omnibus between Walton anil Colchester, he fold me the following instances of feline intelligence. Two cate, living in diferent parts of tho town of Walton-on-the-Naze, adopt thi following mode of opening the cottage-dnor of thelr habitations When shut out No. I takee a jump and strilics tho handlo of tho latch Fith ber foot in the middle of her spring. She generally manages to open the door this Fay the frat time, but, if unauccessful, she repeats No 2 there happeas to be post close to the bandlo or the latch, asd pusy springs on the cop of this. and then deliberatcly premea down the handle with ber
foot, and the door opening, sho juspa down and
raitis in."

Deer Fall Plovomno.-Wo clfp tho following from Norton'o Farmer's Calendar:-"In Holland the firit eperation on the stubbles is as deep a furrow given with the plough as can be dono with horses. Ten 1012 inches of the allurial soll aro thas inmed orer; and if the weather permits, a cross-ploughing of leas depth is given beforo winter. In the nefgls. "Hurliood of Edinburgh nothing strikes the spectator more during a walk over the fallows in finter than the great depth of the ploughing which has been giren to tho land since harreak And in instances nearer homo, where the practice has been trans. planted or adoptod farther aouth, the same advantage seems to follow a deep autumnal plonghiag. In the fen districts a largo deep-worting plough has been latels introduced hy Measrs. Howard, which seems to be mos: intluential on the fortillty of the land. Tho bringing up a portion of the clay subsoil to be weathered during vinter, when it becomes mined Fith tho regetable mould of tho surface, is found to be most beneficial."

As Aristotratic Featiez Plopikt.-Tho Scotion Furmer sajs:-"A weather propbet has arisen in Ircland. Tho Earl of Portarlington, anxions to cheer the hearts of his farmers, which mast have been much damped by the late heary rains, has addressed to a contemporary the following lotter. His lordship docs not state the grounds apon which be basea the belief in which he wishes tha farmera to participate:-- Emo Park, August 17.-Sir,-Leet our farmers raing weather ia the midat of harreat, I am tompted, through the means of your widely-read columns, to seek to encourage them by begging them to look forward to tho nert week, when, from tho 23rd to the 25th, we many expect a great and most farourable change in tho weather, introdncing to ns a lovely, Farm, and dry September, which will bring to $a$ close one of the finest summers ever remembered in this country. I cannot but hope that the approaching dry periou, though later than wo havo wlobed, may yet be in time to savo the corn eropn in good order, taronghout the country.-I am, \&c., PoaramLniaton.' ${ }^{\prime \prime}$

Valce of Weednc.-The following experiments fhow the ralue of weeding and are reported in the Journal of the Bath and West of Eagland Society. 1 Seven acres of light grarelly soil were fallowed and sown broadcast : ono acre was measnred, and not a reed was pulled out of it ; the other six were carefully weeded. The unweeded acre produced 18 busbels, the six reeded acres averaged $22 \frac{1}{1}$ bushels per acre, a clear gain of 25 per cent. 3 . A aix-acre telid was sorn with barley in fine tilth, and well manared. The weeding, owing to a great abandance of charlock, cost 128 . per acre. Tho produce of an unweeded acro was 13 buthels, of the Feeded 28 bushels, thus sbowing a differcace of 15 bushels per acre, besides the cnormous advantage of having the land cleaned for the succceding crop. 3. Of six acres sown with oats, on - acre ploughed ont well,
and unmanured and unweeded, yielded only 17 and unmanured and unveeded, yieided only 17
bushels: tho rest plonghed thrco times, manared and weeded, produced 37 bushels per acre.
Stace Bunnivo is Lncolnsinaz.-From a report in the Agricullural Gazetle, it would appear that the fearful scenos of iast winter, which produced such consternation throughout North Lincolnshire and Fast Yorkshire, seem likely to be re-eacted. Our contemporary says :-" No sooner has the harreat been gathered than two fres-haring, alas, too many marhs of the unmistakable incendiariam of last win-ter-are reported from North Llacoloshire. The firat of these recently occurred at West Burton, a vilinge about three miles from Gainsborough, and eight from Reiford. The fire mado its appearanco soon af.er midnight upon the farm-yard of Mr. Willimm
Toder, Niddlo Ilouse. Tho houselold retired to rett at 12 o'clock, leariag all safo. Botreen- 1 and 2 , Mr. Foster, of lijgh House, residizg atso. i a quarter of a milo west from Mr. Toder's, Way awoke by a glare from the stackyard, which fronts k:s bedromm. At
 cogines, and the cforts of the farmer and his pien, aided by a good supply of water, the tamea had destrosed 25 stacks of wheat, barley and oaks, beales four waggons which wero left near the stactio, and of which nothing but the iron frames remalned. Four laric fat pigs, and a peacock wbich flew into the flames, also perished. The catire prodace of the farm had beca got in on Saturday, and of the whole a firw lodels of clorer and hay were all that way anved. Uippilp. hy ftrenuous efforte, the farm balldigge Trio fircid. J'assengers to Mull by the lakt traln hiraing. Thero is evory remen to fear that it wat another stack confagration.


Forwarding Early Vegetables.
I wish to gire sou a littlo of my experience in nsing omall pinces of turf sod for forwarding rege-
tables. I bare used it very extensivels this spring, and tables. I bare used it very extensively thisspring, and
find it of great advantage. I takio pieces about four find it of great advantage. I taki" pieccs about four
or fro incbes square, in March, and put them in my carliest cucumber frame, and drop torec or four seeds of cacumbers or melons in each piece ; and then as I cut lettuce, dnring April, out of other frames, I plant them in it. Again, in March, I flled two sashes with early Potatoes, in the came way; in April I planted them out in the ground, and bliced the sashes with Lima beans, and put them out in the second reek in Mar. Tro sashes will hold enough beans to plant 150 hills. It gires beans generally two weeks carlier, and you do not bave to replant, ats none of them rot with the wet, which is a greatconsideration. A great many gardeners around here hare had to plant three lmes this apring. I forward Okra the samo way. For potatoes and lima beans, I tako strips 4 or 5 aches in width, and any length conrenient, put them in the frame close together, grass downwards, cut a notch down the centro and put the beans 3 together, then a space of 2 or 3 inches, then 3 more, then cover sll over with some loose rich soil. Potatoes I pat bbont threo inches apart ; when I wish to plant I tako them out in leagths and put them in a whelbarrow take them to the ground and cut them lu pieces with a sharp spade.-G. T., in Gardeners' Jfonthly.

The Apple-Tree in the Lane.
It stoos close by where on leather lungo
The gate swang back from the grassy line,
When tho cows camo bome, when tho duslig ctc
Its mantle thretr orer bill and plaja.
Ita branches, knotiy and linarled by time, Fared to and fro in tho thlo broces,
When the zprigg days wove a bloshlug cromn
Of blomems bright for tho apploliree:
Its sbadow fell o'er the crystal stream That all the lobg bright summer das: Lke a sliver thread mid the warlog griss; Refocted beck the golden rays
Of the noonday aun that madls stiono To drak the fornt of tho brooklet dry, Hat tho light clouds shorered tear.drops doan Till tho giad brook laugled as It gllded by

Nierce were apples half so swect, Colden russel strip-d with red, As those that fell on tho yicleling turf When abo shovk tho branches overhcal A tryallog giace for gouthrul rtends Was tho apple.troc in the diss of jore. And of Fo're alt bencall ats shado And talked bright arcams of the fut ere cirr
And whea the warm Octover sun 8hone on tho mapto's scartet robe, Wo gathered apples sonnd and farr, Aod round as our own mystic ghobe Tho stately hemloct crorras tho bilt, Tho dark jlaes siso aboro the plataBut the one we pinzo far more than thes. Tho apple trvo is tho pasturo lane.

Long yrars havo paned, and cons no mon Como homo st might through tho grasey tan Whers the gate smang lack on leatbers hirgo I atand asd gaze on tho far-od platn.
dio more wo list to the music low Of the crystal stream as it ripples on. . Wha tho appleireo in tho pastaro lavo Is bot a urram of days bygonc.

- Mark Lane Express.

Rac Cats and Cayariza.-A lady informs the Maine Purnier, that sle saved ber cherrics from the birds, by making some cats out of old rags. "Bo gure," shesays, "to mako the eycs out of largo ycllow
beads or briet breas buttons, and'tho birds will not copeg near when one of these cats is perched in tho tree."

## The Bulb Farms of Haarlem.

Lv the first place the natural soll about Haarlem is composed chiefly of sand and decaying shell, which has been throrn up in former times by the ocean. It nlso contains a portion of vegetable matter, and is enriched amually by a liberal mupply of cor-duatthe only kind of manury which is used. Tho land wibich is to bo plunted with tho bulbs is trencbed $y$ or 3 feet deep in syring, and manured at the tame time. But it is not yet in a fit condition for the reception of the IIsacinth. And mark, particularly. tho next preparatory operation. A crop of isegdables,
generally ${ }^{\text {Potatoes, is taken off it, in order to draw out }}$ generally Polatoes, is taken off it, in order to dram out any rankness or impurities which might provo injarious to the IIsacinth. This being done duriag the spring and summer months, the land is ready for tho reception of the bulbs in antuma, which in the proper
scason to plant them. Nor is this all ; a cardful season to plant them. Nor is this all ; a caraful
system of rotation in cropplng is also oberved, that theso bulbs are rarely, if ever, grown on the same land, iso jears in succession.
When planted in October, the bulbs are corend over with 3 or 4 inches of soil, and aro farther. protected during the wiater montiss with a layer of rind
somo 5 or six inches in thickacs. And now the process of growth immediately begins, and in a way 10 which wo beg to draw particular attention. It fa the roots only that grow. They strike deep dow stem remains, all but inactive, patiently waiting for the time when the roots shall be in a poeition to supply all its requirements. And thus it happens that when the spring comes round, and when the bulb begins to grow, as wo say, a cuticiont maphy of nourighment is readily aud abundantly suppliad:
Another point which the Datch cultivator considers of great importance is the careful preservation and full dovelopment of the leares. Any diseaso in tho leares is rapidly communicated to the balb, and hence erery precaution is used to keep them in health and vigour. The fiowerstems themselres aro nsoally remored before they are in full bloom, not with the riew, as is sometimes supposed, of streng theniog the bulbs, but in order to prerent the heavy hower-heide from falling upon and rotting the leaves. Hugo hoepe of Iyacinth blooms may be seen laid up in the corners of all the ficlds about IIaarlem in the month of April, haring been cut to prerent the chaince of such a thing taking place. The Hyacinth Fould appear to be very liable to become disoased, and and hence erery precaution is taken by the Datch cultivator to remove any predisposing cause, whether it be in the composition of the soil or in any injury that may happen to the leares.-Gardener's Chronicte.

Floters for Perfcye--According to the NeioFork: Tribunc, the quantity of flowers manafactured into perfumes in the town of Cannes alone, smounts to tho following quantitics, which we give in tons instead of pounds: Orange blossoms, 700 tone; rowes, 265 tons, jasmine, 50 tons; violets, 37 tons; aceels, 22 tons; geranium, 15 tons; tuberose, 12 tons ; jon: quil, 2 tons;-smounting in all to over 1,100 tons of tlowers, and being suticient, if piled on wagons like loads of bay, 10 form a close procession more, thats threc miles long, or sufficient to fill twents good sized barns. According to the same article the rowe is the most productive of petals, the planta set sbout three fect apart yielding two and a half tons to the acre, -which seems to be a rather large story, bor may be possibly true if the fresh or undried petrits are taken; the other plants do not field near 50 mach but being bigher priced are as proftable, the returns
per acre varying from one to two hundred dollary. per acre varying from one to two hundred dollary.
To Presenfe Oncmanns,-Nathan Shotrell, Fba, Genesec county, $\therefore$. Y., thinks the cause of the proment appearsace of decay and death in 80 many orchard is orring entircly to neglect and bad management. Ile thinks a majority of orchards in this conatry havo that neglected appearance ; some aro not pramed at all, others are carclessly haggled and largo limbs let Orchards are ploughed and tho roots torn, and zainy farmers who haro access to leaves, mack, anv-dua, etc., nerer mulch their trees, nor remove the rowit bark which furnishes a barbour for insecta. It bhould be scraped off with a hoc, and the treo wahed. With and still in rigorous growth and bearing, baynot been ploughed for thirly years It bas geatrally bcen pastured with s wincuntil applea begta to tipea:
Manure frequently put to the roots of the trefs an Mranure irequently put to the roots of the trets das
troying the toughacss of the sod and making the and looso and spongy, and thn cions (the land jeer' growth that wero largo cnoagh for grafing, have nearly all beca remored gearly for more that forty усars. $-N . X$, Tribune.

## daisrellancous.

## A Cheap and Valuablo Paint.

One of our neighbours has painted his out-houses, fences, de., with a paint mado as follows, and found thearly as good as ordinary oil paint and vastly cheaper. In fact the cost is scarcely anything except the labour :
"Take half a bushel of nice unslacked liwe : slack it with boiling vater, cover it during tho process to beep in the steam, and add to it a peck of cleam salt, previously well dissolved in warm water; threo pounds of ground rice, boiled to a thin paste, and stirred in boiling hot; half a pound of clean glue, which has been proviously dissolved by tirst soaking it well. and then hanging it over a slow fire, in a small kettle within a large one filled with water. Add fire gallons of hot water to the whole mixture: atir it well, and let it stand a fow days corered from tho dist. It should be put on right hot; for this purpose, it can bo sept in a kettio on a portable Purnace. It is said that about one pint of this mixture will cover a square yard upon tho outside of a house, if properly applied.

- Brushes more or less small may be ased according to the neatness of the job required. It answers as well as oil paint for wood. brick or stone, and is cheaper. It retains its brilliancy for many gears. There is nothing of the kind that will compare with It, either for inside or outsido walls. Colouring matter may be put in, and made of any shado yoi like.
"Spanish-brown stirred in will mako red or pink more or less deep, according to the quantity $\Lambda$ delicate tinge of this is rery protty for inside walls. Finely pulverized common clay, well mixed with Spanish-brown before it is stirred into the mirture, makes a lilac colour. Lamp-black in moderate quantities mates a slato colour, very suitablo for the outside of buildings. Lamp-black and Spanish-brown mixed together produce a reddish stone colour. Yellow oclare stirred in makes a yellow wash; but chrome goes farther, and makes a colour geaerally esteemed prettier. In all these cases, the darkuess of the shade will of course be determined by the quantity of colouring used. It is dificnlt to make a rule, because tastes aro very diferent ; it would be best to try experiments on a shingle, and let it dry. We hare been told that green must not be mixed
with lime. The lime destroys the colour, aud the with lime. The lime destroys the colour, and the
colour has an effect on the whitewash, which makes colour has an effect on the whitewash, which makes $p$ it crack and peel.
"When walls have been badly smoked, and when you wish to havo them a clean white, it is well to squeezo indigo plentifully through a bag into the water you use, beforo it is stirred in the whole mixture.
"If a larger guantity than fire gallons is wanted, the same proporions should be observed.'
Our friend says that thirts cents worth of colouring matter will be cnourh for the half bushel of lime. Spanish-brown, yellow ochre, cost three cents a pound. Lamp-black and l'rince's brown fire cents a pound. The latter gives a handsome lilac shade.Genesee Farmer.


## Muscle and Machinery.

Tur great objection to farming hitherto has been hard work. Farm labour is done too much by hand What manufacturer of the present day could succeed witbout machinery, and jet manufacturers were once without such aid. The human drudgery of the furm must bo sared, if the furmer vould rise, physically and intellectually, in his calling. Farmers cannot afford to be machines, when thinking porrers rule the world. They must uso machinery, and harness slesm, wind, or borse porrer to their car. This last must ever bo the most common motor of the farm, as it
is within the reach of all. By horsc-power the farmer can mow and reap, turn and pitch, thresh and grind, aw and boro, chop focd, and crush roots. It is not proftable to farm as those did who lired centuries ago. Labour is higber, taxes are stecper, and commercial ralues are rising. 1 better agriculture must ariso than the past has tnown, or the farmer will go under. If our hills and vallegs efor become properly
cultivated, the farm er has a great work to do. Leaks mast be stopped, time must be cconomized. intellectual and social clevation must bo achieved, farmers mascle. To maku any business tolerable, it must bo ahown capable of yiclding something benides bealth and bread, und thatis about all farming has hitherto
shown. Farming will becomo prostable, when tho shown. Farming will becomo proitablo, when tho
furmor better underatands himelf and saves all that
waptes,-Moritand Parmer and Meohazic.

## Ono Thing at a Time,

Ose thing at a time, my dear fellow-one thing at a time. If you atiempt to lift both the trinsand your wifo orer the stream at once, yon will probably drop the doll of one of the little ones, and the bonnet of the other, and set the wifo down ankle deep into the stream. Some then of extraordinary gits can rock the cradlo and read the paper at the same time : but few can stir the hominy and calculato an celipse at once, without burning the one and postponing the otber a year or two. Con may put as many irons in the fre as the furnaco will hold, if you timo them cightly about their coming out. But don't try to hammer out all at once, or attempt to shapo an eel spear and $n$ horse-shoe rail at the same blow. A wiso buidder will bavo the masons busy here, and the carpenters there, and much work proceeding with equal pace, but he do s not draw up the specilications for a new house wbile he is draughting the plan of another. We may set out a treo that will be growns whilo we slecp, wind up a clock that will run its round white we run up town on an errand; but we don't set our trees nor wind clocks while running of errands or while aslecp.
It is wiso to have things sosituated that there be no chinks betweon our jobs; no time wasted in taking up another when one is eoded, and that, when really tired of ono, re can refresh ourselves by labouring at another. Bat it is wasteful to turn from ono undertaking to another while yet fresh enough to push the arst on to a conclusion. Ono thing at a time, and that thoroughly, is the secret of success in all great attainments. Crowd the inspiration in between narrow banks, too narrow to allow of two jobs to ride abreast, and you can Roat down it any task you hare attempted, though as large among our common labours as a sorenty-four is among other ships. But Widen the strean to accommodate a score of trifing left for another tide.-Nies York Times.

## A Chapter on Hints.

Mretr of onr knowledge is derived from the briefest hints which are often received in a most unexpected manner. Tho most aluable inrentions hare been the result of a casual remark or observation. The drain tilo was derived from a hint of a gardener The steam engine was said to hare been hinted at by bo steam from a tea-kettle, whilo the valves were mado to work by machinery from the hint given by tho boy who tended them, and made them work by a tring attached to the machine in order that he conld play.
It wo notico the manner in which we read an arricultural paper, we shall find that wo catch a hint here and a hint thero, and wo may think ourselves bundantly rerrarded if we can find one good hint a week in that direction. There is another way in Whicl we receire hints, and that is directly from others. A farmer had beard some nerr method of managing his affairs which ho thinks an improrment over the old method, and immediately writes it out bricily for the Farmer, and his neighbours all receive the benefit of it. We nerergointo a machine shop of any kind, without eatching some new hint worth remembering. Some appareatly unimportant remark is sometimes mado in the presence of a boy. It is a hint to him. Ho catches at it and his whole future course for life is shaped byit. But few of the in portant events of our lives are made up from matore deliberation. It is quite as likely to be the result of a hint caught hold of in a second of time, white we make the deliberation afterwards. We are a great believer in bints, and almost any one may be valuablo if rightly improred There is said to bo a best way for doing eversthing, and we most generally ascertain the best way from some hint which re receive from others. Hence the advantage of visiting the operations of the man who is successful in business, and collecting such hints as may aid us in our labours in the same direction. Neighbour Jones sags that he always visits his prosperous neighbour orer the, way erery winter, just for the purnose of heariag something new, or, in other words, of catching some valuable hints about farming, and this is one secret of neighbour Jones' success in Carming. He argues ia this way: "If my neighbour can cut tro and a half tons of hay to the acce, and raise a sure crop of corn every jear, there is no reason why I should aot do as well as be." This where ncighbour Jones is right.-Maine Earmer
zer Fatel, the great vatsrinary of the ccutinent, states that the rate of pulsation of the diferent domestic animele of the farm is as follows: The horse. 32 to 38 pulsations per minute, an ox or cove 25 to 42, a sbeep 70 to 79, the ass 48 to 54 , goat 72 to 76. the dog 90 to 100 , the cat 110 to 120 , the rabbit 120. and gainea-pig 140; of fovle, tho hen 140, the dack

## Farmers' Sons,

Tue sons of farmera commonls think that their lot is a lard onc. Unlite most city youths the'g are compelled to perform daly torl. ther life is not one of constant amuscrarut. Ther cannot see and hear as much as their city consins. They do not dress in as fine clothes-cannot treat and bo reated at the popular saloons, or vis.t the cos:ly gambling resorts wich abound in crery city. They feel hat their lot is indeed $n$ bard one, and the highest ambi tion of many of them is, to arrive at that ago when hes can go to the city and see "all the sights."
ljut let us talk to our farmers' boys. You are in he right place. You are learning labits of industry and frugality. By your daily toil you are acquiring a sound constitution-a most important matter. And this is one of the reasons that our great men have all come from farmers' sons. 'They hare grown up robust, with constitutions that could endure a great amount of mental labour, which youths from the city. with weak and feeblo frames, conld not stand.
If you cannot see as much as city youths, neither are sou exposed to the rices and temptations of the city life, which prove the destructuon of nearly all raised in a city, Yon are then on the right trackso ahead. Resolve to form no bad habits. Indulge in no intoxicating drinks. 11 sou form a love fur hem, it is almost impossible to subduo it. Do not acquire the habit of chewing or smoking tobacco, or aking snuf. head good bouks; let no opportunity for improvement pass away neglected, anil you will grom up useful, intelligent men.-hural Woith.

Definition of Fastidsorssess. - Fastidiousness is the enrelope of indelicacy.-[IIaliburton.]
The Ifexas Figene.-The proportions of the buman eigure are strictly mathematical. The whole figure is six times the length of the foot. Whether the form be slenter or plump, the rule holds cood; any deviation is a departure from the highest beauty of proportion. The Greeks make all their statues according to this rule. Tho face from the highcst point of the forehead, where the hair begins, to tre chin, is one-tenth of the whole stature. The hand, from the wrist to the middle finger, same. From the top of the chest to the lighest point of the forchead, is a seventh. If the length of the face, from the roots of the hair to the chin, be divided into three equal parts, the first division determines there the ege-bruws meet, and the second the place of the nostrils. The height from the feet to the top of the bead ts the same as tho distance from the extremity of the fingers when the arms are extended.
Tin: Waluex-A Geruess Stonr-COnder a great tree close to the village tro boss found a walnuth
"It belongs to me," said Ignatius, "for 1 rras the first to see it."
"No. it belongs to me," cried Bernard, "for I was the first to pick it up;"and so they began to quarrel in earnest.
"I will settlo the dispute," said an older boy, who just then came up. He placed himself betreen the tro bors, broke the nut in two, and sail :
"The one piece of shell belongs to lim who first sarw the nut ; the other pieco of shell belongs to lim who first picked it up; but the kernel I keep for judging the case." "And this," he said, as he sat down and laughed, "iz the common end of most lawsuits."
Sevse of Syeld in Dogs.-The author had a black pointer slut (from the benael at lemox Castle) which, while ghooting on a moorin Argyleshire, he had sererely rated for eating some carrion. pait of a dead and putrid sheep. Passing to lecward of the samo carrion about an hour anterwards, "Bess" evidently remembered the former rating, and, giring an expressire look to her master, continued tho hunt The stench from the carrion was so great as to be almost insupportable, and hurrying past it the author was surprised to obscre the pointer, generally ? most obedient animal, mako a sudden wheel, and "drav"" directly upon the carcase, from which no whistling or command could prerent her. An ad ranco to check her led to only ber steady and regu lar approach, makigg point after point, to the dead sheen. Annoyed at this, he seized her by the neck and urew her away, when at that moment a coc? grouse rese from the rery mass of carrion, where it han possibly been feasting on mafgots, and gaily croming, few down the billside, but was in a few
minutes afterwards safoly bagged. After tho bird minutes afterwards safely bagged. After tho bird Lad gone, the pointer at caco cheerfuliy resumed her hunting. Now, here was the senso of swell so power fully discriminativens to detect the presence of one small bird, from which not very much seent conld
come, amid tho horribly tainted air from tho dead sbeep.- Rom "Shooting Simplified," by James Dalaiel Doug

Dratil to Rats.-During the rinter months rats naturally reisort to barms and ricks both for shelter and foot, wul ure consequently a great nuisane to farmers lior the bencfit of the readers of the Jichigith Firmer ne give them the preparation of Dr. Ga, a celebr ted German chemist. This compound is a deatl shot. and if nised will sen! them to "parts makuown." quicker than "Costar's Exterminator," as it contains untel tho same ingredients. Farmers, if youn are troubled much with rats try it-you can obtain che articles at any drug storo:
Melt hog's lard in a bottlo plunged in mater of tempurauure of $1: 50$ degrees Fabrenheit; introduce in'o if hati an nince of phouphorus for cerery pound of lard thun adde a pint of proof spirit of whisky; cork the huttic firmls after its contents hare been
to $1: 0$ degiocs, taking it out of the rater and agi.
 making a milky lonking fluid. The spirit may be poureil off on the ligutid cooling. and you then hare a fug , mpount whichafter being gently warmed
 or sibsir hacoured with oil of rhodium or oil of anise 8 'ed \&c athd the doush, on beitg made into pellets. stoond be laid at the rat holes; being luminous in
the dak. and agremble both to their palates and the daik. wh agrevible both to their palates and
theirnors. it is reatily eaten. and prores certainls fata! Ther rus is-un from heir holes and seek water to yuench their burnine charst. and they commonly dar ne:ar the water - Michugan Farmer.

## zuariets.

## Toronto Marketn.

## "Castda Farymr" onfca Och 10. 1865.

Abturan. with fic dellahtf il, cool and gental days, bas now fatrly
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 w eat.jpremiurtug uistitets of the Woit, tho supply to altogether tnalequate to the tenenenso and exceptional requirements in somednancts buther has vecomo a luxury, baving rasched the cmormeus proce of 80c per fround. Owing to the Immenso numver of catte that art dally betng shipped to the other slde beet and wutho will, in will hikelibert. reach unprecedontod prices darthg the combing witater The prices of tire such contloue xica 's:' nifearen under the droand, atd mas becxpected be-
 Figlabif fit Cuthulut oats, and alrady sercral shipments have
 fac orf to, hnow that the Enndist market can absotb all our sur. plut c arse tratas, the cutheration of wntch, tt was thought would wo unpmittible is the creat of the Amerfcan market belng made unarailatile of all the crops to the Lutted Kingdom, oats aisd bartey are thas jear the shorsest The averngo yleds of onts ta ti bushels to tho acre, this yiar it is eatimated at oft or a loss of 14

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 Lite Stock-diosed welaht, 1st ciase $\$ 5$ to $\$ 000 ; 200$ cines

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Iondon Markets. Oct. 10. - Kiall Itheat, per bishl, choice




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 nal Jrane-cargo silo at 90 !ac per 60 lbs jork rulher arm. Aires-arst and second
$\$ 5$ il; seconus $\$ 50$.

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wanug a tno farm.

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 Vishome to tho Narsery will mechoo a condial welmome and naw information, or a descrituwe Catangeo wht bo 1 romp:a fornafice on medpl of two cent timpro.

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Turonto Nurberions.
October 15, 1865.
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