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## The fichll.

## Steam Cultivation.

Tue date at which we have arrived, in thus brieng sketching the history and progress of steam culture in England, is the year 1850 . At this point, it may be well to advert sluortly to a few of the canses which have prevented some of the prominent schemes we have noticed from being carlice developed, and more unirersally adopted. To our mind, it appears that the delay is partly altributable to defects in the implements themselves, and partly bcoanse steam plougling apparatus arrived at that stago in its history when it could bo successfully used before its need, was felt, or its utility appreciated. . In confirmation of the former theory. it is only necessary to udvert to the great compliention of ropes and engines mhiob characterized the inventions at the period th which we have referred; whilo the machinery was constructed of materialsaltogether too weak for the purposes intended, from a mistake
 erery stecl had not fortunately come to the rescue as alight, surface, and arag The natural results were that tie machiues broke $\mid$ ropes, the stean plough would in all probability $\left\lvert\, \begin{aligned} & \text { on railtays, and drag then implements after them. }\end{aligned}\right.$
 have been consigned to that bourne from which no defunct invention erer returns. Still another fruitful source of wear and tear of the new steel rope arose from the coiling of this wire on the drums by sgueczing it into the $V$ shaped groove. At last the Burton clip-drum was invented, and the rope was firmly but gently olasped, as if by an iron hand, while its shape and texture were preserved. With regard to the other canse-that steam ploughs were invented before their need was felt-we may remark in the words of the political cconomists, that "the machincry of a country will naturally correspond with its wants, and with the history and state of its people." As an illustration of this principle, take the following reliable fact:"Nol longer ngo than the Sbrewsbury meeting of the Royal $\Lambda$ gricaltural Societs of Eugland, in 1S45, a model of Aizlar's American Steam Plough was exhibited in a public room in Shrewsbury, and the town placarded, informing visitors of the fact, and yet no ono went near to inspect it except two Russians, who drupged in towards

8. Engines which move along headhnds and apply their power to the implements by means of wire ropes.
4. Engines which remain stationary while at work, and draw their implements by means of wire ropes.
Quite a number of selemes under each of these hegels hare either been introduced to pubhe notice, or lave been patented. We will now proceed in genernl terms very succinetly to nutice the clams of the suveral sechemes. With respect to the first-named festem,--engines which move over the limed, - they cortaing posiess the adrantage of ea fos iap their mosive pmer directly on the imptheres wian ate rompanies them. Besides the objectio at the of immence weight, however, in pas ing uve an.ahe hand, the consumption of fuel and suther, ow tag to the un-
 would certainly be four fohl that of at shatonary engine; while the cost of repars wutal probably be ten times the amount. Ther werond selume,-laying down rails all over the farm, -costs too much at the outser Probably CzO , or even $£ 30$ per acre, would enaredy defrag the introdactory expenses of the far mer alopthg this system. The third method is that perfected by the hate Mr John Fowler, of Leeds, $\rightarrow$ an honoured name, which is inmorthly assuented with the histury of stean cultifation. Fowle's esyitem, and that of the Messrs. Howarl, of Dedford (ehortly to be noticed), share pretty equally the patronage and popularity of the agricultural world at the present day. The rivalry between those frms hass not always hoen free from little acerbitice. Each syistem, however. poseesses oo many excellent characteristics and recommendations that it wonld be iatialiuns in as to attompt to setile the gucstion of superiority. In Fowler's system the engine unquestionably employs ites power more direct!g, and requires a shorter leagth of rope, than where the cagine is stationary at one poiat, as in Howards method. S.ill there are urawbackg, of some weight, to Fowler's appuratus. When the soil is at all wet " the pasian, of a bavy
 age of fuel and water atter it, destroy ، in a arent measure the fertility of the grond trarewed, and leaves a goold deal of hard worl subieqnently to be dome by borse-power, in vringiag the han tw a tillh. Again, in hilly countrics the engiae in at wort sometimes on a stecp aseent, and sometimes on as steep a descent, at tians inclining to the right, at others to the len." A lithe reflection will render it apparent that the cost of kerpiag the engine in repair, ulder these circumstances, will be much greater than where the eagine is stationary, and alwass working on the level.
We now cond to the fourth and hast ssitem of our Hlst. It is almost unnecessary to state that this is the method tuopted by Messr3. Howard, and illustrated in our last issthe. The leading objections urged against this plan are "the extra lengh of rope required, and the loss of power by the cmplos ment of palleys romad which ropes are passed." hoth of these objections have, in our estum thon, beca considerible eraggerated, but the limits of the present artiche do not admit of our discussings the vartons points presented for an exhaustive inguiry of the subject. The advantages claimed for thin aytam may be briefly cuumerated as follows :- Molerats prime cost, litle expense incurred by repaiss, sumplacity of construction, more easily managed by ordinary farm labourers, and, fanally, that an irregularly shaped field may be ploughed and cultivated as well, and almost as unckly as a square one. The large illustration in our haut issue exhibited the arrangemant of the ropes and :pparatns in the case of a rectangular leld ; while the cuts accompanying the present article, slow three methods of accommodating Howard's stean tacklo to nelds of irregular shape.

Steepisa Sead Wrabar-There are many methoits of stecping, brining, and liming seed what, and hary Rre all intended to prevent the smuL-Mforion's litr

## Thick Nowing, Shallow Ploughing, and Weedincss.

The enperience of 20 gears has thught mo that thick sowing inflicts an cnormous aggregato loss on British agriculture, and that loss la greatly aggrara. ted by the ordinary shallow ploughilng; for, as I have before said, tho thistlo and other gtrong and decp-
rooted weeds are merely decapitated by ordinary ploughing, and, consequently, our Iatd barley crop3 dire unnistakeable erideuce that thoso reeds haro still poisession of the soil and subsoil. They stand tovering above alluost eviry lurthy ciop. while io my own, scarcely ono can be found, owing to my second or under plough (drawa by four stroug horses) faving, when prepared for tho root or cabbage crop. detroyed them by tearing then from their strong. bokd in the subsoil. The wediaces of Great Britain costo the country millions anmanlly. Thes. weedy for our crops. But look nt the dificulty of hareesting such crops, especially in a wet harvest time as this is. These grean weeds not ouly tenit to delay the drying and carting, and heat the stack, but sapply a stock of seeds for future crops. The s.mplo is also frequently diminished in value somo 2 s . or 39 . per qr., Decauso these hat haid weely crops almostalway turn out a bad, light sample. Bat why are these crop3 lad that? Mind, I do not object to heavy crops, whose weighty heads bow them down, and appear to bo laid ; but, if you examine the:3, you will find. as mine are, that the stems are not horizontally it $t$ but that they are merely bowed os archen. learis? plenty of room for circulation of air throash tho:arches, which nerer allow tho heary heald to curnt near the gronal. They are, nlthoigh 1 bid, actuaty reposing on arches forme. by the strong reedy stem. of tie:ir neighbours. These stems, stiti, ghass, and

 cuer in grosth of a thick and that-soan crup whea the rarmed so: in spring stimulates wegetation. Ia one caso tio crowded stems rush upward ha vertica! strughte for light and aic, which, beugg excluded fron become spongy, soft, and desicient in that glassy covering wheli not only protects the circulation of the phat bat keps the seena ereet. la couse mence if ooerclurdiag, dora goes your crop prematarely: mad up cone sour wed., which have now lost the shut of tur comptitur, the cura. Ligit, frothy
 con-ryuace, and ade certain prelabes to a low price and lus of profit Bat then, say the alvocates of theck so ving - I But I like a thick ceop at harrest." I reply ". So ih I ; but what is the true test of a thick
crop! not mult, but weight, woth of straw a:: corn. Everience has hanght me that alrays getagreater weight of both by thin sowing than from thick." is ceny to understand why thick sowing haz sostrong
 vented, broadcasting wassanecessity, and cousidering the variability in ploughing it is easy to understand -hat much sed being too deeply placed nover camo up, while much of it near tho surfuce was food for exact depth of furrow, and carefully laying them, as weilas hatins a sower cunning in has art But
Irinls and iron steol-toothed harrows haro obanged tll thiq, abd rendered a very mech smaller quantity of seed absolutely necessary, for each eed in redi cultimated ground is, by the drill, placed in a proper positiun to grow; thereforo lot my old practica!
frinds takn the hint, and adapt themselves to an altered state of things. Eren now I hear that many of our north-country friends, over the Border and near it, cling to broadcasting, thus depriviag themselves of the beneflt of that labour-saving machine, Garreth's horse-hoe, which takes 7 fect in width, and by which from 121020 acros a day may bo both trees and fences, drainage, and generally improved cultiration, our seedsare no longer subjected to such cuntration, our seed.
It is curious to trace how mach accident has had to do with duminishing tho quantity of gece. When tho drill was first introduced there was the desire to put in the same quantity ofsced as when brondeasted, keracl, whilo by broadcasting much was wasted. An old friend in Warwickshire garo mo an Instanco of this accidental diminution. When tho now drill came, he ordered the man to take care to put in plenty of seed (their usual quantity heing 3 busbols of what) The man saw so mach seced coming donn
the pipas that he thought there must bo a plenty, The firld was of 20 acres, and when the master re turued at widay be found they hed onls put in 6
pecks Great was tho dismay and donbt whother it should bo resom. However, tho other balf of the fold was drilled rith 3 bustols. At harrest tho thin sown beat tho thick by moro than n quarter per acre, mad over ainces sis pecks hass been thu quantity of that neighbourhood. Surely wo ought not to wait for an accidentil discovery when it is so easy and inexpensiro to make comparatiro trinis on a small portion of each field. I hat o been led to mako thesu remarks by my practical experienco in thin sowing and deeply culdrating It must bo borno in mind that I alludo to strong, lowy lond, well drained and kept tree from weeds and properly manured, snd in the cereal county of ksex. let each man julge of his own moil and climate, and take fato consideration all other circumstances. It would bo impossible to lay down an intlexillos rale for all soils and all climates; but, at nuy rate, 1 na satisficed that by moderate nad careful oxperiments we shall all gradnally arrive at a considerablo diminution in the quantity of seed sorm, especially ns our ngricultural practico ap. proaches nearer to perfection. As I have ofen sain before, the quantity of corn produced does not mainly depend upon the quantity of seed somn; it is the hataral or artificial fertility of the soil that causes tho young phat to multiply its shoots or stems in spring. The half peck per acre of what on my 9. acre field is now cut and in shock, as well as tho two lands of two sorts of wheat on cach side of it bown with my usnal quantity of four pecks. The half peck appears, both in straw aad grain, to lhwe the alvantage, but we shall tost them carefilly. by weight and minsure, both of corn and straw. This is a singular inasure of an exireme case, becauso we gave it up tor lost, in the winter; but in the spring it branghed out horizontally cloes to the groundand hen up rose vetically, antr forming tho curre of resistanco buiow, from 10 to 2 strong reedy stems from each phat, each stem having a finc car arevarine fitty Hersels, bethg an incerowe of fom 503 to 1,400 for Neth hernel This is emmenht hiff ectat from the wer:zo of the liagdom-9 for 1 , as described in Mr. James Caird sadmirible book. My yen estimate the general yivtl of the fiellat 5 2 mashelx; if so. the merease of the halrphech will be 52 bustels, or 410 ternelis for one. There coriaimly must be solmething :adically wrong in our agriculture, when we find 9 or 1 as ageneral averuge increase. In hussia, where there is no hocing, sad where weeds and wheat grow an company, Lue arerag. increse is from 3 to 3 for one, asconting to tac quality of the soil. ithe ques. tion, as a amtional one, will be better for a thooough agitation. There is sumathing practiealls absurd in supposing that we e: pat in : seceromed kernel n wheat ia proper!y prep ued groand, and only obtain from it a guerter of ata car, or ten lemat, whd tan it manst only prodace tiat one cear 1 believe that the same priasiple hoids gooll for wheat as for tur nip3, trees, or :mimals.
Put ten animals for nine months on a pesture which oaly contains fond emongh for one, the consequence would be death to mont of thrm, nand hald starvation for the surbsur-so it mut be with plants : we know it is so with trees aud tramps. The want of nir and light, as well as other food, is lestruction. Wo nerer sed two trees in close proximity willout observing that they turn their bacts to each other, and cxtend their arms in opposite directions; few or no branches
are formed between them. It is not the want ol are formed between them. It is not the want ol carthly food that causes this, but the want of that aerial food, wifhout which nevthei plants uor animale can flourish. Let my practical friends ponder on chis imporiant matter, and let them remember that when orer they wish to raiso a new stock of corn, they carefully put one kernel in a bole, in well cultivated ground, and refoice in obtaining an cenorrous produce. A pood fleld of wheat should, in carly spring, look ns ilat as if its stems were glued to the ground ercry shool pushing out horizoutalls, beforo it takes rertical morement
Agriculturists admit that this is the proper appear ance, but they can norer obtain it by thick sowing and crowded plants, for then tho early morement is an apward struggle for lixht and air (as we seo in a crowded fir plantation), and down they all go, too often prematurely, and ruinonsly, their spongy stems rendered son by the absenco of light and cir. heing unable to sustain the loppact of rain or wind. In awi scarcely say that a thin bower shonld select perlect seed-lieavy as well as bulky-and freed by the blowing machine from all seed weeds, or light corn. This wet, warn harrect thero will be an nuysual quantity of spronted grain useless as seed. I have Lieard farmers say that, as a matter of economy, they sowed tail corn. This would never guit a thin sower, and it is oertainly a very falso oconomy. Last year one neok per acre produced tbe largost crop on my farm, both of corn and strav, viz, 56 buphels of wheat and 23 tons of stram per acro, accurately mensured and woighed. For carefal experimental dibbling I nu inaubted to Mr. Mallett's simplodibble. $-J . J$. Alechi, Aurgut, 1865.

Mr. Lawes' Exporiments in Wheat Growing in 1865.

We nare on premous occasions inrted the atter: dion of our readers to the interesting spries of ex poriments in wilיat culturo conducted by Mr. J. $1 ;$ Lawes, of Rown.msted, Hereford, Lingland. In a commuaication to tho N. B. Agrimulterist, which w. append, Mr. Laves gires some interealing dntaida of the result of this season's crop, which are weil ileserving tho carcial attention of our ariculturists. Ho gays :-"The nbundant whent crops of 1063 and $186 t$ hare be. followed by a crop warying medi moro according to soil and other local circumstances than either of its immediate predecesors. The amounts of produco fielded in any particular field or on any particular furm, are, thercfure, tie less reliable as indications of the character of the harsest generally. I think, however, that from the resul's obtained in my experimental wheat field, which hess just Fielded its tireaty-second croj) in succerion, taken together with those obtained in fields on the gamo farm which hare been treated more in accord a:ace with ordinary panctice, we may gather that on the heavier ronts of tho country, if moderately well farmed, the wheat crop of 1865 vill :urn oul to be abore the arerage, at any rate in quantity, if not in quality also.

Tho following table gires the produce per acre and tho weight per bushel of the dressed corn obtained on several of the differently inanured plots of tho esperimental field, $1863,186 \cdot 1$, and 1865 , and also the arerago produce on the enme plota for the thinteen sears 1852-186t inclusive, during which timo (and in some cases for a longer periou) tbe same description of manure has been applied year after year to the same plot. It may be also tuitherexplained, as in former reports, that tho differeat "artificial manures" each comtaned the same mineal mannre, but in combunation cudur with duferent quantities of ammonia salts, or with nitrate of soda:

Harcels
10.0:2

Areme of 13 gars.
18.53 .1500.

| Commanurenc..... <br> - Fismbert mathe <br> 8 Astilicall ma sura <br> \& 1!.10....... ..... |
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[^0] including tho crop, is lifted and prepared for inc torks by means of a long ghare, which jussies trausrersely underneath tho drill, and can bo lowered or raised to suit any depid at which the potatoes may havo been planted. Mr. Oliver has made what lic considers an improvencet on the share, by giving tho cutting cdge a greater dip than it originally had. which seems to prerent it from cutting th:o putatoes. IIo also recommends that cach digeet should be peovided With a spare share, in case of anything going wrong with that which is at work, so as to preverat loss of time in gettiug repairs donc. Tho framo in Fhich tho working parts aro fixed is supporied in front on a pair of widels.

Tho digger has lifted three and n-inalf Scoteh acrea at Redlueagh dails, twenty-five women being required to gather after it, whilo by tho ordinary moto ot lifting forty women should haro been required, tatinn into cosideration thoso wito must go beforo this plough and pull the stallis of nank crop. There is, thercfore, a saring of labour, and also of expense in another way; for it is loss troublesomo to talic trenty-firo hands out from Edinburgh in tho morning and back at night than was the case when forty were required. Mr. Pringlo has supplied sereral diggers this season to furmers in tho eamo district, ind, in fact, it is a machino which must speedily como into unirersal uso in all parts mhero potatocs aro grown cxtensirely. Mr. Olifer is of opinion that tho introduotion of tho digger, taking its cfiloiency aud the ligh prico of labour into consideration, is as great an improrement as the introduclion of tho reaping machiuo; and with all tho othor adrantages which it possessea, tho land is much more perfectly cleaned than it can bo when tho ploughts used in lifting the crop.-Scollish Furmer.
a Jimtle More Cóikratio.-Wo never hayrow enough; wo never cultirate enough. Too mellow ground cannot be mado-the mellower tho better. And yet me larrow simply to corer the grain, anless the land is rery rongh. This is all rrong, wrono: Let the cultirator wo used frecly, followed by the drag freely. Let them swim through the soil. Some ground needs frequent ploughing in addition to the cultirating and larrowinn. You cannot pulverize too much; you cannot palyerizo cnongh. there is no time to do all this." True. And hero is tho great daficulty; we havo too much, too much land ; our work has got the start of as-and it will lieep it almajs whoro thrro is so nuch of it. better celuvato ono acro thoroughly than two in the usdal manner-for it will yield as mach as the two without manure, unless sonr land is in a very mealy condition, which is rarely the caso.- Rural EForkh.

## Ditohing Machine,

We lad tho opportunity on Monday of Fitnessing the operation of n new mychine for digging diteles, partianlarly for laying tile in. Tho machine consists of a 5 cries of 22 spades, placel on an axtetreo and rerolriag with it, entermg the gromad forward at suen an anglo that hacy med with tho least resistance.As the machine adrances, the epales are mato it eremd backward and partially under the loosened earth, taking it up, and wien at the proper clevation the spade is malo to tarn one-fourih round by a trip, depositing tho earth upon a shield, which carries it out to one side of the diteh, thas giring nll the mutions that aro made in using tho ordinary hand spade. Tho machinu can be set to run at any required depih up to $S$ inclues at cench pisage of it orer the ground and bs repeated passage to the deptio of three feet. the infentor acaired his that with two men and two grod teams, fifty rods of liteh conhl bo cut in ait hour. The ground on which we faw it mork was sery unfavourable; being a quick-sand the spades did not tato it ont clean, much of it falling back-The motions, lowerer, werd complete, and every part worked well. nad we can see no reason why ft will not bo a complete saccess in land that mould requira dralange. The mechine is the invention of Mr. Judd Sterens, of Wash. Co. N. Y., and is now under the control of tue Clicano Ditching and Spading Machine Co., (chastured iny the lasi legisiatare,) who will give aty forihe imiurnation dnsited.Pruiric Furmer.

## Farming in Califorria.

Tue San Jose Mercury gives the foliowing accommt of a threc thousand acre farm at that place, fribich is worked by a Professor Gates: "One rould suppose that the professor wumh have his hands full to carry on a first-class cducational institution, with nearly 200 students, and a thre hundred-acre farm at one and the same time; but with competent assistants, and his business thoronghly systematized, hemanages the whole with tho regelarity of clock work. He has on his rencia 2,500 acees of grain, besides several acres of hay. Some of his cartier somn grain stands now at least three and one-half foet high, and is as rani: and thick a 3 it can grow. One tield of a thongand acrea would astonish tho optics of any diew Enfland farmer. Ho estimates that his entire gield will not fall far short of 40,000 sacks of 1 co pounds each. To prepare this immense tract for seediag required the services of about 35 men and SOhorses and mules for three monils. It rill require sixty men to do tho harsesting. Tle work is all done with the most improved machinery. For instance, there aro on the ranch no less than niao gang-ploughs, twenty-fire waggons, three headers, tive mowers and ruapers, one splendld stoam tircesier, and other farming implements withoat number. To form some idea of tho oxpense atiending tio secring of this immense crop, we need only mention that the sacks alonu mill cost nbout $\$=0,000$. We lecieso it is the largest tract in the State tiled by one man.'
zefill Lonng, Spriagfich, Eradford County, Pa., says:-"If you tip maple trees as soon as the ground hegins to frecze in autinu, the sin will run as freely as in spring."
Dendert of Bones-There it nothing that the farmer vastes that is so raluable ins bones. The phosphorns contained in them is of the nehent mater tor arming purnoses. They should neber be thown away. Saro them always. Euder break them up as fino as you can, and appis to the soil, or burn and pulverizo then. Treated in this wary, or reduced by acid or alkalics, they are the most direct stimulanis he soil can hare. They rank among the supherphosphates. At least sare your boues, and giro them to yoar gardens in 8ome form or oducr. They rill tell in any form.-liural Forld.
Thae to Sow Fins, Wuent-I was talkind to an Englishman today, and remaried that I thoiagit nany farmers in this section put their wheat in 100 early. "Yes, sir," he said, "they do." "Oll Mr. W. used to putin his about the 201 l of September, and he raised the best wheat in the neighbourhood. Ono of his neiglibours who uscd to sow the last week in Augnst, once said to him:-"You don't sow eally enough." "Wen," ho replicd, "What is the reason, then, that I get better whent than you do "' "Be cause you plough mors than I do." "W.ell," ho said, "I do plough more. Sometimes the boss want to 80 as carly as jou do, but I tell them tho limid neods another plongling, and set them at it, simp? to kcin them froni soucing so carly-Gonesce Fhinicr.


## The Hereford Breed of Cattlo.

Most of the leadlag traits of this valuable lineed of cattle, hare already been enumerated, in an artiole which appears at page 100, Vol. I. of
wore perfect than that of most of our existing breeds of entlle. The elaraoter of the bend bears a striking resemblance to tho Derons. The muzzlo, howeror, is somoriat coarser, and there is altogether more of that quality which brecders designato as "throatiness." Tho peculiar quality of the lair is very fairly shown in the accompansing portraits. Generally speaiaing it is wary, soft, and of moderate length.
rell spruat is in their mare arishocratic Shorthorn compeers, but this debulency is componsated by then finc sides, and by the miresire proportions of the clest.
The splendil appearance of the two animals herowith illustratin, tonether with the trentr-lhreo otber Meroforils, of bo'h seres and varicas ages, that composed the magaitient herd exhibited by Mr. Stono, at the l.to l'rorincial Finir, was something to be FIRST PRIZE AGED IIEREFORD BULL, AT TME PROVINCIAI, EXIIIBITION, LONDON, 1865.


The P:oncity of E. W. STCNE, Ery, Guetr?.





BEST HEREFORD COW, AT IHE PROVINCLAM EXILIBITION, LONDON, 1865


The Proporty of F. Vr. STONE, Esq, Guelph.

Fite anmals at the recent Provincial E:hibiiina -- ray not be amiss to briefly point out a fuw other $t$;in:nithisg characicristics of this picturesque 2. ced, that ocrur to us. The form of the Hercfords is
and symmetry of the shoulder, the Hercfords stand $\mid$ putalily established. As we receptly observect, there unrin.ulted anong all known breeds. Their hind a e no Hereforde at all to comphat w. : his en quarters, too, are generally well developed, and the the continent of America, and, we may fafely vontur: tail is uracefully "set on" The ribs are seldom so in abld, only a fuw in Brituir.

## Cattle Truoking.

Wien, while rushing at speed through some great railway junction on our Northern or Western lines, we flash by a quarter of a mile of cattle trucks shunted off into a siding to make way for our express, and hear the lowing and bleating of their inmates, we innocently imagine that those pastoral sounds are but natural expressions of astonishment, elicited from animals leaving for the first time the fat pastures and breezy downs on which they had been born and reared. Buta perusal of the evidence given in 1864 before the Select Committee on Cattle Diseases Prevention, \&c., of which Mr. Bruce was chairman, painfully undeceives us. We there learn that the sounds to which we have adverted are wrang from the poor creatures by horrible sufferings, to which they are unnecessarily exposed on their way to the slaughter-house by the careless indifference of rail way companies. Fat cattle and fat sheep invariably arrive at the stations from whence they are to be railed to market wearied and thirsty. No means of watering them are ever provided at those stations by the cailway companies, nor are reasonable and convenient arrangements ever made for trucking them. Amid all the strange sounds and confusion inseparable from active railway traffic, terrified by panting and screaming engines, hounded and beaten about by exasperated and perplexed porters and policemen, the over-driven animals are at last forced into their trucks, hotter, more weary, and more thirsty, if possible, than when they first staggered into the station. And in those trucks the bewildered creatures are left, without food and without water, until they reach their destination. Cattle tracks, being unprovided with buffers, whenever they stop (and they stop very often) inflict upon the animals confined in them all the pains and penalties of a sharp railway collision. The strain upon the feet and hips of heavy beasts on such occasions are terrible; they are so violently thrown one upon the other that the ends of the trucks are occasionally forced out. Grievously as they suffer when travelled by sea they suffer far more grievously when travelled by land. Graviers, in their evidence before Mr. Bruce's committee, stated that they prefer travelling their animals on foot distances of 50,60 , and 70 miles, rather than exposing them to the cruelties exercised on them by the railway companies; and yet it has been computed that a fat beast travelled on foot deteriorates at the rate of 18. a mile. They also stated that when compelled by distance to convey their animals on the rail, they are in the habit of entering into special agreements with the companies to carry them from point to point without stoppage, in order that they may escape, if possible, the usual losses by privation and crushing. The moment a butcher handles a beast he can tell, from
its bruised condition, if it has travelled by rail, and on that account he bids less for it. All this suffering and consequent waste of meat and money might easily be obviated by better railway legislation. At stations where cattle are trucked, special accommodation for truolding them quietly and carefully, and an abandant water sapply, ought to be provided; and no railway truck ought to be without buffers. A reasonable time ought to be fixed for performing the journey to market, and a heavy drawback to the graaier ought to be allowed in cases of excessive delay. There can be no real difficulty in improving the present vicions system of cattle transit; it is merely a question of custom and of cost. Nobody ever thinks of travelling horses in trucks withont
buffers, or of starting them heated, wearied, and thirsty, without any provision of meat and drink for the journey. It is to be hoped that graziers will ere long become alive to the folly of breediag and fatting prime animals in order that they may be maltreated by the railway oficials who truck them, and be atarved and crasked on their way to market. We do not expect that railway companies will move in this matter without compulsion, but the agricultural interest is strong in both Houses of Parliament, and a very mall amonnt of pressure, in the shape of a brief act of Parliament, would work wonders in the way of improving the existing scheme of cattle conveyance on the ra
Pall Mall Gavette.

Frimpa Stock.-Little and often is the rule. How little and how often, may be asked. So little that the stock will eat up clean what is given them morning, noon and night; and in the long, cold nights of winter, a foed just before bed time, say about 9 o'clock, is advisable. This we call often ; that is, four times a day. Though the quantity should be such as to be eatea up clean ; Jet it should be enough to keep the stock in good, thrifty condition. No starring or half
feeding them. This does not pay.-Rural Amertoan.

## Thte 牙位y.

## Production of English Cheess.

Notwithstanding the large quantity of cheese annually imported into England from America it appears that the price in the English market is yearly advancing. Whether this is to be accounted for by reason of the consumption being greater, or by the principle of a decreseat production, or by a combination of both causes, is not perfectly clear. The fact, however, is patent that the whole supply is gradually becoming more inadequate to supply the wants of ar ever-increasing English population. A correspondent of the Marlc Lane Eapress makes the following suggestive observations on the subject:"While I acknowledge the home consumption and the supply from abroad to have increased, I cannot but lament that the production of English cheese has been on the decrease. In these remarks I make especial reference to the midland counties. I am unable to speak with any degree of confidence of the dairies of Cheshire, Gloucestershire, or other cheesemaking counties; but of dairies of the midland counties I do say that, during the last twenty years, there has been a gradual, though now it has assumed the form of a radical change. In my own parish there is 67 per cent. less cheese made than twenty years ago; and many other parishes in Leicostershire are at as great if not a greater ratio. The cause of this change in the farming of these counties is to be attri buted to the advance and altered mode of living of agricultural society. One main reason is the anxiety trouble, and annoyance of cheese-making in the household. We readily admit the impossibility of the mistress obtaining the three household requisites of neatness, cleanliness, and regularity, when the business of making cheese is performed in what should be a private house. The other reason which I may mention lies with the dairymaid. This personage and the milkmaid, which our ancient poets did so much to celebrate, are fast loosing that renown which was formerly attached to them, and, I am firmly persuaded, will soon be of the past. The dairymaids that are to be obtained are chiefly of that class which requires the strict eye of the mistress to mako cheese making saccessful. It is a notable fact that the breed-if I may be allowed to use such an agricultural expression-of dairymaids is yearly diminishing. I think the time is far distant when cheese-making apparatus-although I far from overlook the usefulness of many-will be very generally adopted by Leicestershire farmers. Unless there is some system pursued by which it can be manufactured independently of the farmer's private residence, I see no other than that the making of cheese will continue on the decline.
"Will it serve the best interests of the country for cheese-making to be discontinued? I think I may say, for many reasons, it will not. Without cheesemaking we should be struggling against a scarcity of stock. It is clearly perceptible that an abundant supply of stock is co-existent with the dairy, and vice versa. Is it not probable that the present cry amongst farmers, of the dearness of store animals, may be accounted for in this way? If all will be feeders, and none will be breeders, we shall no longer be independent of other countries for our supply of either stock or cheese. Dairying is objected to by some on account of its impoverishing natare; but, with liberal feeding and an occasional dressing of some fertilizer, this objection may be overcome, and the profit remaining may be handsome. If, then, it is desirable that cheese should continue one of the principal product of British agriculture, what system can be adopted to promote that desire? I say firmly, but emphatically, the American. The various cheesemaking apparatus might be used with great advantage; and the economy in power for pressing, and the saving of labour, in an establishment on a large scale, might be such as greatly to reduce the cost of making."

## Selecting Cows

First, I get a broadside view of the animal, at a distance of about two rods, as I have noticed for years that there was a great similarity in the general pro portions of all first class milkers; being very small in girth just back of their forward legs as compared
with the girth just forward of their hips. I have with the girth just forward of their hips. I have
never known a first rate milker, of any breed, no
thus proportioned ; so that if this form is wanting in an animal I have recommended to me, I do not care to look at her more, unless I want a breeder for some other purpose than the dairy. For breeding oxen I should want a cow of reverse proportions, i.e, Inger girth forward.
I next feel the size of the " milk veins," and trace them to their entrance into the chest, which, in superior cows, are large, admitting the ball of the largest finger ; if divided, or sub-divided, as is sometimes the case, I judge of the size of each orifice, as I care less for the size of the vein itself, than the orifice. Next, I examine, by sight and touch, the ndder or bag, which must be capacious in order to hold mach milk, with teats wide apart and free from large seed warts or sores of any kind ; I then inquire how long she goes dry before calving, as I don't want a family cow to give milk less than 46 weeks out of every 52 ; and to close, I milk her with my own hands.A Vermonter is Rural American.

## Importance of Milking Properties in Cattle.

This following passage is taken from the report on the exhibition of live stock at the Royal Society's Show at Plymouth. It appears in the Journal of that Society,-the writer being Mr. J. D. 'Dent,-and is well worthy of perusal :-" Before closing my remarks upon the Cattle Classes, I must again enter my protest against the mistake made by our breeders of fashionable stock, in so entirely neglecting the milk: ing properties of their cattle. Amongst the Shorthorn, Hereford, and Devon classes, we had perfect models of female symmetry in every peint but one-that which provides sustenance for the offispring. The feminine character is lost, and we are year by year showing_mere cylinders of beef. * * In the fashionable breeds we are losing fast the most beantiful characteristic of the sex, and, as I believe, from nothing but over-forcing, and carelessness on the part of the breeder. Our shows would gain in interest if the bulls coald step out easily and majestically, and if our cows and heifers were indeed the milky mothers of the herd. But now, amongst the aged bulls, to walk as far as the ring is a matter of serious dificulty, and to parade once or twice around it a painful task, for they resemble some gouty specimens of the homan race, whose tempers and figures are alike destroyed by over-feeding, and the sufferings consequent thereupon. But serions as are these difficulties, it would be a yet harder task to get a pail of milk from a whole class of cows." Bell's Weelcly Messenger, after commenting on the remarks just quoted, makes the following suggestions:-"Cows and heifers in the first and second class being disqualified as prizetakers if proved to be in a barren state when shown, it would be well if fertility in adult bulls were made a condition of obtaining honours in the corresponding male classes. Sufficiently authenticated certificatea of fruitfulness within three months preceding the time of exkibition might be demanded. If the rale were carried out with vigilance and impartiality, the usefulness of the Royal Society would be unspeakably enhanced.'

A Check on the Butwhr Maracer.-The formation of "Anti-Butter Leagues" is now an agitated measure in many of the American cities, the conditions being that each family shall use but one pound a week, by Way of ornament to the table, until the article can be purchased at a reasonable price. It is claimed that the enormons prices at present demanded are not warranted by any scarcity of supplies, but on the contrary the season has been unusually prolific to dairy farmers, and the grievance is attributed to the monopoly of an army of speculators, who are scouring the country and holding back the stock from retail trade. The same canse, without, has influenced the exorbitant rates raling at present in this Province. The failure of fall pasturage has been a favourite apology with sellers in this market, who have had the assurance to demand 25 cents per pound for indifferent qualities during the past 6 weeks, but the story is a fabrication and for a greater portion of that period the pasturage has been abundant. The subject of "Anti-Butter Leagues" might be brought up under the head of "general welfare," at the next meeting of the Hamilton Co-operatives, but there is some doubt whether the butter market would be affected thereby to a much greater extent than the depression occasioned by total shstinence societied in the price of rye. - Hamillon Times.

## \$heep cixushanary.

## Cotswold Sheep.

The late test of the Wool Growers' Association, as to the comparative loss of different wools by thorough cleansing, will have its good effect on the public. The Merino Wool Growers have, through the Agricul tural press, by their reports of enormous fleeces in the grease, made the impression on the public that the fine wool families were as much superior to the English Combing wool breeds, in the quantity of wool they produced, as in the quality. This test puts all such assertions in their proper light before the Wool Growers of this country, and the intoduction of new machinery, and new forms of fabrics for want of cotton supply, has enhanced the value of all combing wools in England and America, and has placed their commercial value nearly equal, pound for pound, with the ordinary felting or fine wools. The latter fact, in connection with the late test, must have a great tendency to increase the flocks of Cotswold and other combing wool breeds in America, in all proper situations, viz., where the pasturage is rich and the
soil strong, and population most dense, and butcher's soil strong, and population most dense, and butcher's meat in most demand. Let the Merinos be consigned to cheap and thin soils and grasses, and to remote localities far away from the great centres of trade and popalation, where no demand exists for butcher's meat; lives, producing wool alone, and they will be found in their appropriate and most profitable sphere.
The Cotswold is a highly improved animal, having to perfection all the high feeding qualities of the best short horn catte, and will make from a, given amount other animal of any species, and of more value per pound in the city markets when made, than the first class beef. They thrive only in small flocks and with high handling, rich food and plenty of it. With the sheep family they occupy the same class that the short horn does with cattle, that is the very best and cheapest machine the farmer can employ to manufactnre
his grain and grass into meat and manure. The percentage of wool produced in the late test relatively to the weight of carcass is not a fair one so far as this particular breed is concerned. It does it more than justice. The specimen selected is the lightest carcassfully up to the average of yearlings. As a breeder of Cotswold sheep, I have never owned a yearling purely bred and well kept, that did not exceed the weight of this specimen from 25 to 60 per cent., and many yearlings might have bcen found weighing 160 bus., and producing no more 20000 . I have weighfollowing August, drawing 140 lbs . live weight. The heaviest fleeces ever produced by this breed is by yearlings, if well kept.-Cor. Country Genntleman.

Sheer Crossing.-A recent Essay, by Mr. Clutterbuck, contains the following remarks as to a cross between the Cotswold and Down sheep :-" The first cross, as a rule, is confessedly the best. The question now arises-what is done with the ewe lambs Which ought to furnish mothers for future flocks? As a rule, the lambs are sold as they fall, and very
generally are bought by those who fat them all. As an instance, a farmer of much experience sold 100 wether tegs at a market away from home, where they were pronounced the best sample of such stock (that
is, the first cross between the Cotswold and the Down) that had been seen there. Contrary to his custom, he kept the ewes, and was tempted to breed from them; though his rams were well selected the produce was of a very inferior character, and wisely draft ewes of the Hampshire breeders with the Cotswold ram. It might be said breeding from the draft wwe is in itself a gain sometimes it may be, but what is contended for is that even the best cross breeding leads to the indiscriminate sacrifice of the ewe, which, in flocks like those of Sussex, Wilts,
Hants, Gloucester, Leicester, \&c., is not the case. The half-bred sheep just now is in great request, from the large price of wool and the fattening qualities said to belong to this class of animal. 'Breed from the best natives, cross for fattening,' is a recorded saying of Mr. Frost, bailiff to his Majesty George the
Third, at a time when the first great movement in the improvement of sheep stock seems to bave had its commenccment ; and the saying, founded on the waper:-

Suall-pox in Sheer. - On the occasion of the outbreak of this disorder among the flock in 1862, the Government justified an inquiry into the value of vaccination as a preventive. Mr. J. F. Marston, resident surgeon of the Small-pox Hospital, and Professor Simonds, of the Royal Veterinary College, were appointed to carry this out. After patientinvestiga tion and experiment a report was subsequently made, the substance of which may thus be summed up That sheep-pox is only known to have existed in Eng land on three occasions, namely in 1760, 1847, and 1862 ; that it is highly infectious, and, like the smallpox in man, occurs but once in the same animal that the deaths from natural disease often amount to seventy-five, and are seldom less than 25 per cent. while many of those spared are left in a worthless condition ; that vaccination cannot be relied on as a preventive or a mitigant; and, even if it was pro-
tective, not more than 35 per cent. would be influenced by it ; that the inoculation of sheep with human virus is equally ineffective ; that cows are not susceptible to the action of sheep-pox, so that viration cannot be resorted to as a means of furnishirg lymph; that separation although sometimes available in arresting the disorder, is impracticable with large flocks; that slaughtering and burying the bodies are only justifiable at the very first outbreak; and that the only remaining conservative measure is inoculation, which, if rightly carried out, offers considerable advantages. First, it gives security against a natural attack of sheep-pox ; secondly, i limits the period of the existence of the disease thirdly, it mitigates the severity of the attack fourthly, it saves the lives of many animals, and produces but little loss of condition ; fifthly, it contracts the extension of the disease, for one confluent case would do more harm than fifty inoculated cases would do; sixthly, that the mortality among the animals inoculated with those taking it naturally is as 3 per cent. in the one case to 50 per cent. in the other.-London Field.

## zoultry yard.

## Poultry Items.

## fron the "field."

Disimfecting after Roop.-Could jou kindly tell ne if any disinfecting liquid that I might put over a small house and grass run in which I have had one or two bad cases of roup? The house is of wood, and the run is thirty-five feet by twenty feet. I used to keep one cock and four hens in it.-Torment.[If the house is well cleaned, and then brushed over universally with a solution of chloride of lime-water, it will be effectually disinfected. The grass may be mown, or the ground dug over and resown.-ED.]
Lice in Poultry Houses.-My hen house is infest ed with myriads of small insects, some red, and others white, very small-a species of fowl lice. I have had the house whitewashed, and also burnt brimstone in it, first closing up the apertures; but they are Worse than ever; indeed, so bad that the fowls have deserted the house, and will neither roost or lay in it. It is a large building, and far larger than the number of fowls that 1 keep require. Please give me a recipe that will cure this-Lcrcres.-[We should recommend a trial of chloride of lime and water, Washing and brushing the solution into the cracks and crevices, the house to be thoroughly cleaned out before the application. Should this fail, we could recommend nothing else but brushing the whole interior with mineral turps, which can be obtained at about 3s. to 3s. 6d. per gallon.-Ed.]
Want of Scccerss in Hatchina.-I shall feel obliged if you will explain in your next paper a curious cir cumstance which has happened in my yard. I have not been able to hatch a single Bramah chicken this year; when the eggs were examined they had no chickens in them (being quite rotten.) and thinking it was the fault of the cock, I bought another of a quite difierent strain, when the same circumstance occurred again. I then changed the hens, but this nob having the desired effect, I am at a loss how to account for it, and shall feel extremely obliged if you could give any solution of the difficulty-CocHis - [The circumstance of the eggs being rotten proves eggs remain clear originally fertilised, as unimpregnated eggs remain clear, and do not stink. As the want of success has continued after the stock has been changed, the cause is most probably in some local conditions affecting the birds.-ED.]
Cholera in Poultry.-I shall feel very much obliged if you or any of your numerous correspondents whic. suggest a remedy for the following complaint, by thirty-five duckwing chictrens. The ofmptome are,
imagine, very similar to those of Asiatic cholera in the human subject, and the disease, as the result shows, quite as contagious and fatal. About a fort. night ago I had as handsome a lot of three-parts grown chickens as could well be imagined; most of them being of the same blood as the bird I took first at Birmingham with 1862 and 1863. They were almost all seized at once with excessive purging, and became gradually weaker and thinner, until death supervened, in the majority of instances in from two to four days. Thinking that nothing but poison could effect such wholesale destruction, I had several cut open, and found excessive inflammation and enlargment of the bowels, with a quantity of mucus in the intestines. They had no appearance of cold or roup about the head, but the eye became dim, and they walked " all in a heap." To show the malignant nature of the disease a batch of nine younger game chickens (belonging to a friend of mine, which happened to come in contact with mine, all died in one night; and another of sixteen Hamburghs is reduced to nine, with a prospect of further diminution. Curiously enough, the old fowls are not affected by it in the slightest degree, and the older chickens appear to get through it better than the younger ones. They have all had an unlimited range of grass-fields, and have always been extremely healthy. I must add that I have tried rue, oil, butter and chalk, with little or no success. Any suggestion in the event of a recurrence of this most fatal malady will be most welcome to-A Beven Years' Subscri-ber.- [We should be disposed to try the effect of a strong dose of calomel and opium-say one grain of each two or three times a day. The remedies mentioned in the letter would be quite worthless in a malignant complaint.-ED.]

## from the mari lane express.

Onions are said to be an admirable food for fowls, or rather an adjunct to their ordinary food. If given regularly, it is said that they will prevent attacks of the more ordinary diseases of poultry.
Meat is said by some authorities to be an essential food for poultry, especially in the winter, when they cannot get the worms they pick up in summer. Others again, maintain that the habit of giving meat to poultry is productive of grave evils-
the cause of many of the worst forms of disease which the cause of many of the worst forms of disease which aflect them. By these authorities it is called an unbirds are not fitted to assimilate them. There must, we think, be some mistake in all this, for we know of we think, be some mistake in all this, for we know of entirely of their own accord, an enormous quantity of animal food: here it is not cooked; the game found in nature's garden is raw. If meat is an unnatural food for poultry, they certainly have a most unnatural appetite for it. Throw in one lump of meat amongst a lot of fowls; if not literally a bone of contention, it is something vastly like it, so eager are all to get a grab at it.

We believe the habit of giving much food in a short space of time to poultry is a very bad one. If you notice their habits you will perceive that the process of picking up their food under ordinary, or what we may call the natural condition, is a very slow one. Grain by grain does the meal get taken, and with the aggregate no small ampunt of sand, small pebbles, and the like, all of which passing into the crop assists digestion greatly. But in the "hen. wife's"-we by no means are personal in using this now celebrated distinctive appellation-mode of feeding poultry, a great heap is thrown down, and the birds allowed to "peg away" at such a rate that their crop is filled far too rapidly, and the process of assimilation is slow, painful, and incomplete. No wonder that so many cases of choked craw are met with under this treatment.

There is a poultry pestilence raging in the suburban hen coops round Paris. Fowls are found dead in scores, without any perceptible cause.
French Eggs.-The number of eggs, fowls and game, imported into France in the first half of this year was $2,009,800$, as compared with $1,680,729$ in the first half of 1864 , and $1,601,041$ in the first half of 1863. The exports of eggs from France to June 30 this year, were $13,979,186$, against $11,568,136$ in 1864, and $9,903,913$ in 1863 (corresponding periods).
Lice in Chicken-houses.-We hardly know what to advise to rid the houses of this pest. We have always found lime-washing effectual when thoroughly done. It must be well worked into all crevices; holes which the brush cennot reach must be stopped, and the operation must be repeated till the desired resalt takes place. If the fowls are s:pplied in the house and in their run with a couple of sushels of dust, or better still, of wood ashes, with nlich should be
m.xed four or :ro pounds of black sulpher they will m.xed four or .'0 pounds of black sulphi". they will


## Wht 冬phati.

Managemont of the Apiary for November.

## HIJ. J. THOAAB.

As soon as the weather is cold, and snom falls, all stocks should bo put into winter quarters, or prepared for wintering out of doors. I wonld ndriar, howerer, that all stocks bo wintered in sum- buk cool place, nud get so marm as not to freare. Hees as well as cattlu may be wintered erpocil to cold and frosis: but who will sey that it would not be botter if such were hensedf Ilundreds of atocks porished last winter with abundance of honey in the hires, exposed in tho open air, that might hare been wintered sarely in $n$ proper place. Inm ansious to impress unon the minds of all my beekeeping friends the necessity of wintering their bees where it wiil not freczo. Now is the time to prepare $a$ place, and bee that the bees aro properly putinto rinter quarters. A dark dry cellar, or dark room, away from the are, will answer-any place where it is dark and cor 1 , but not cold enough to freeze. The beter way is to pecpare a place on perpose, something liko a roos cellar, only it should bu properly ventilated. For particulurs see "Camadian Bee-keeper's Guide." All box hives that are vintered in a proper place may bo inrerted, and a pieco of wire cloth tacked on to keep them in, If ryy morrable comb hives are ussa, tie hoacy-board should be remored and the corer if tho hire left on; but if stocks are sintered out of doors, bor hires canaot bo laperted: sereral holes would bo bored in tho top aud corered with a cap or empty box. Moveable comb hives should hare the honey-lonarls remored, and after tacking on a plece of pirc-cloth or stif net, the corers should be illed with clean straw, corn husks or cirn cobs, Which will absorb the moisture and keep tho bees warm. Should tho weather remain warm durieg this month, stocks may bo left on their stands until De cember. Let it bo remembered that bees wintered in a dark cool placo whero it does not freoze, and properly ventilated. consumo lout littlo honoj; and will cast earlier and stronger swarms.

## Bees.

a chartiar of weit sertled pacia.

1. All stocks of bees shoald be lepht strong in n:ubes.
A well garrisoned city may defy assault.
2. A moderate increase of swarms will heep them strong, and securo the hargest hild of hoaey.
As the cabres are rised at the cost ot hatter nad checese, so bees are maltiplied at the expenso of honey.
3. Dees ailed widh huneg are nut inclined to sting.
As the rublecre kne is stad by got. paree, so vees are bribed wath protered sweets.
4. In nalaral riwarman, bees will fill themseles with honey.
Emigranat to "b buw cuantry carry their trensures aloug as cath...1l to begin wath.
5. Beas a arurd at emode or otherviso, instinctively seize tbeir stomes.
The houscibuder, at the cry of fre gecures what he cani.
i. There slawhid be no communication between occupied hires, allowiag tha bee of one to pass directly into the other.
" No bouse is largo enongh for two funihes."
6. A swarm of bees destitute of $a$ ceteen fast dwindles awiy; and unless supplied with one, soon perishes, cither by rubbers or moths.
A conntry without og gorernmeat, a farm pithon: an owner.
7. Skarms having combs insufficiently protected by bees, furnish a retreat for millers und food for porms.
Ungarded treasnes invite thieres.
8. An excess of drones should be avoided by discouraging the coustruction of the cells that holid
Drones aro the "dead heads" of the hive-tho useless males in the furmor's herds.
9. Tho building of drone comb may to a great Xent be prevented-first by securing the construc-
nl of new cumbsin lifes contaimang young gueens;
I secoud, by p'acing frames to bo tilled in other -res near the centic.
"A An ounce of prevention is letter ham a pound of
10. Quceps ars most cconomically reared in small King.
Kho roatd empley ten men to do that ono conht do better t
11. Small surarms if united in the fall, winter more safuly, and consume lies honey.
"In union there is strencth."
12. Doera of colonies containing fertilo and unfertile queens, slould not he pat together witbont first -breaking then up," i, e., indacing them to fill with 14. Ailuma smarming alufers uncertit
13. Natural srarming, always uncertain and perplexing exposes the beckeeper to much loss of time nif money; while srificial sirarming, securing nt nll time tho presence of a worker-laying queen, doing aray with nll watching, and loss by tlight is the
woods, is both sure and cconomical.-MEecalfc's Kly to Dlec-Ficeping.
Ihomer is Frlize.-It will perihaps excile s.mate purprise when we stato thot tho imports of $1 \cdot$ :esinto Erance, in the six months ending Juno 30 , wie year Wero 19 tons, while in tho corresponding periot of lag there weso 102 tons, and in tho correeponding periol of 1 so3, 29 tons. Tho exports of honey from Vrale 3 to Jung 30 this year, Fero 121 tons, again:t
256 tons in 1865 , and 120 tons in 1863 (cornenonding periods.)-Scothish Farmer.
Parastre of time Bee.-" An acarias infeeting the parasite of the bee has lately been discorered, and a ploiograph of the insect, magnified one million limes, has been taben by Mr. A. Bejtsch. It is corered with a catanace or hollow shicld, and its fect are armed Hith sharp clavs, ly whicis it lieeps a arin hold upon the microscopic creature from whic! it derives its nourishment, und which in its turi preys upon tho boney-gathering bee. As we can disco:rer no limits to the miuuteness of organized belage, to we can fix no terin to this extriordinary forins of parasitic animals prering one oa tho ather."
IIow admlrably and truthfully is the ba-i reflection expressed by the poet :-
> - Thu Very fear liawo ciher flexs An 1 those deas laro lescer niche An. 100 aul ladulium."

Eprect of Chanomany of Baes-a firw days since Mr. Anana, bullder, Downiflla, wishiar to hare the Loneg takien from a hire withnit resorting to the common practice of smoling the heri with hrisastone, and thercby killing then-and having before heard of chloroform being used-felt anaious to try the experiment, which was dono by Mr. Laira, drugglst.Ir. Laird first cloged the doormay, len corered the hivo with a cloth to shat ont the light as mach as possible, unter which he commenced to blow hloroformamonget the heas, immediately upon which they began to make a humang nolse ; but, as the chlo:eform kas continued to be llown in amonast them. the btorm speednly clangel into a calm, when it way soon discorered that the bees bad tallen asleep, $: 0$ that they were eastly remored to ancther lise wiphout harm to any one ; and next morning they were all areako and in a lively state, humming aro:ad their hire-no doubt wondering what had lappened. This belng a successfal and usefile erperiment in keeping the bees altre, we think it right to mate it known for the benefit oi others.
Chavos of Sifyz: 70 Bees-A friend who bes been a bee-master for forty years, informs us that lie considers a charge of scene, especially from garden to beather, of great advantige to the bees. Fie noticed that when his hives wero remored to hill quarwht for a fers seasous, they became effeminate and thorlese, and that when strange hires made an attack on them or thrir stores, they slowed a duefiency in courage ; whereas ho noticed that when sent off regilarly to rusticate among the hilis, they nirrays showed a more stirriger and pluctay natare, and enemies were seldom вucceseful in a battle. This he nccounted for in this manner:-Bees in a wild stato chango their abode fimuently; ialsed, this hacy are obliged to do from the trees, ele., in uhich they ludge being destrofed; henco their efeninacy when conGined in the sano abodo for a number of gears. Then when they aro placed among the hills, thes are getserally placed alongsidu of bees from rarions di aric $s$, with which they learn both to battle and to do theaun:able. In short, they see society, lsccume bees of the world, and retura to their garden nooks wiha renerrel ably to the value of their stoves. Wo have heard an ably to the value of their sto:es. We hate beard an
extengive breder of pleasauts state that be considered chango of acene for brecding birds also rengired iu order to keep thu old bird in liealth, nad ia as state in which they would breednanually. Keepes linow how spiritless hirds becomo in such places after a mado of of conmement. But when tho bens aro mado of hight materiats, and changed in situation
every two ycars or co, birds remaia, comparatively
Steatur,-Ecotish Former.

## Tritcrinary getpartmrat.

## The Albert Veterinary College.

Ther Albert Veterinary College (Limited,) is to to opened on the first Monday in October, temporary and very suitable accommodation haring been secured at Quecn's Road, Brompton, London, until such time as the new buildings can be raised on a site that has been obtained near the Chelsea Hospital. It would be rish in us to speculato on the future of this institution. It is fairly launched under most dustion guished patronage, and wo may concludo that ail those noblemen and gentlemen who hare consented to becoms viec-presidents consider there is room for a secund veterinary school in our great metronolisy a view in which we entircly concur. IIaving no faith in monopolies of any hind, we hope to seo an lonest rimalryfringing up between the tro schools, that will incite all to greater excrions ia the cause of science, and lead to the public atrantige; at the samo time We trust that this riralry may wo maintained without any hitice fecling, or any nttempt on either side to florify itself unduly at the other's expense. Thero is nbuydant room for bott. It is to be expected that, for a timent least, the Camden Torrn establishment, harmg the claim of antifuity, and presided over ns it is by very cminent proleseors, will be well smpportc.j. and perhaps the larger number of bona fide valerin.ary pupils. Tho Albert College, howerer, by adding to the iegular professional branches a courso of lectures on the l'riuciples of Agricaltare end Chemistry, ought to attract students from a wider peld.
Erery scar the impulso to emigrato appears on the increase, and this will continue so long as our population galas upon our area, or, in other vords. so long as tho national prosperlty continacs. The liali: of our emigrants must turn their attention io the chl. timation ofstock and crop, principally tho former.-
A knowledge of the physiology, palbolory. :-ai A knowledge of the pliysiology, patholoes: : ai
treatment of our domestio animats will be inrainabic to sucls. An insight into the principles that nerin'.. " the growth of our crops, a knowleder of hose nis!a ral laws which are ever at work produciag restlls incalcnlably lmportant, will be knoriedge that may bo turned to account, and that will guide to a read sonable and int: Sliscnt practice; af any rate, wif prove more practically hecful than a siudy of the details of some parsicular farm practice, minniable thongh the same be fur a certain soil and district, bat utterly nasuited for the wild pratrie or the luachwoonds. Aiddin this that the students will hare the opporthait; of a!tending a courso of lectures on chemisary, aid wo think there ls a very promising b:ll co fute oflered to the enquiring mind at a moderute expea e. igain, how frequently do wo meet w:t men actiret fiom the army and nary, bent upon erjoriag the y!e asures of n country life but ignorant of the busiaces for which they have a decided taste. A session or tro at this institution might assist them to direct tian attention to the acquisition of practical knowledge.

The pactice of farming can nerer be taught in a lectare-room. He would be mall who should attempt such an uit r impossibility. Iractical knowledge, the power of dealing with the varying circumstances of soil, cimate, machinery, tho labourer, and the animal, and turning all to a profitable account, mus: bo leant hy perserering atiention on the farm; but the studens may be materially assisted in acquiriog such hnoricage, if be etuly the principles upin which agriculturo as a sclence depends, and which. as it were, natords an explanation of the apparent anomalies which otherwise arrest is progress at erery step. Woare led to believe that the argicu!. tural and chomical clases will prove attractive to nany whose ulimate object is the veterinary professiun. The country practitioner wauld frequently be in a hetter pusition to adviso as to the general man arement of live stock if to had some knowledge ol the sequirements of $a$ farmer's occupation. These, then, atenit of the reasons why we anticipate that the Nlbert Vetcrinary Collego will ofer considerable attractious to the emigrantand the gentleman farmer, ats will is to the student of veterinary science. Sucas will in to the student of veterinary science
ces will depend upoa management. Thero mast bo hearly co-operation between the head and the ataf, enlightencil and liberal management by those who hare underiaken tho heary responsitility of watching over we derails, and unremitung attention to the interests of te:e pablic. lleliering that, under good management, this institution will tend to elevate the reterinary profession, and proro useful in other wajs,
we leartily wish it succuse-Dell's Wrekiy Messenger.


A Delicate Dessert.-" Ahomerrifu who has triod It" sends tho following receipt: - Lay hati a dozen crackers in a turreen, pour on enough boilling water to corer them. In a fer minutes they will be stollen to three or four times their original sias. Nore grate loarsugar and a litte matneg over them, and dip on enough sweet cream to maki: a nice sance, and you will have a simplo and delicious dessert that will rest lightly on the etomach-and it is easily prepared. Leare out the cream, and it in a raluable recipe for nica rooin cookers."
Anacelteral Statsitica.-"Thomas Mcinab," of Montreal, writes anent this subject ns follows: "In the leport of the Agricultural Depattoent of Washe. ington for the month of Septemicer, 1 notice an cr-
 - the value of correct statistical information of Crops. This is a subject to which litte or no attoration ap. pears to hare been paid in Canada, but it is one, the importanee of which, ia a new and neriecturat countrg like this cannot be ofereestimated, not only as ehorivg the probable ainatal value of the crops, and the sield per acre, but also the prozress mate in clearing the land for cultisation. and the relatire froftility of the diferent sections of the the country. It is undoubtedly a primary obsect to be undertakion lo I the Bureau of Asriculture ; anl one which the agri-1 cultural press of the comntry stoond urge upon the attention of the local boards of agricalatire, abd through them on the Goveromeat. A few years ago the Eighland and Agricultural Socicty of Seothand anderiook for the Government the collection of arricultural statistics in Scotlani. Tho expense was srasil, the afstem pursucd simple, and the result was satisfactors. I take a deep interest in all that pertains to agriculture, and would mach like to see some steps taben torards the collection and publicatio: of agriculural statistics, not oaly as anfording valuable Information to the people of Canala, but which would be of the greatest service to put into the hands of intendigg inmigrants to Canada. I would be glall if through the medium of Tue Caxida Furxer the results could be brought promiaently before the Minister of Agriculture."
Whe Making.-".1. B. Drowneon, of Bayfich, writes as fullors: "I wrote to you in the carly part of eeps. last for information about home-made tobacco, youl answered it Vol. I., No. 17, page 261, and I ached upon your suggestion. Hariag no screws I took an unright pole under the beam in my cellar, and a wedge and an old axe were all the appliances that I used, and so that you can judse for yuttectif, I bave sent gou one plog. Ihave used no wher hand for the last year, and am still of the opinion that farmers can grow and cure their own tobacco, at about fix cente per pound, and in one year earn enough to pay off our national debt. Nurs, I sant some information about wine-making. Last fall I hed a large quantity of the Clinton grape, say threc or four bushels. After giring away as long as any person would oome for them, I then took it into my head to make them up into wine. I went to a neighbouring brewer who pretended to know all nbout wine-makiag from the grape I followed his directions, and in the xpring following a friend of mine called to see nee, and 11 tapped tho wine and gavo it bim to drank, irith at request that ho thould give me his opinion of it. Ho drank part of it, spit somo into my fuce, pomo on the he could speak he said it was lyad wine, and pronounced it abont second cliss sinegar, so $I$ acted on his suggestion to make it into vinegar, and rolled it out inio the sun, where it has beca all summer, but now it is noither wine nor vinegar. What I want to know is how to make wino ont of grapes. I shail hare barrow loads this year, and they "re all coloured

Mamso and Reanino Macnnris.-" M. O. Cole," of Orrecll, comnunicates the folioming:-"In the name of ennmon sener und justice to horses, what is the use of drawizo shant the field so mach rood and iron! lock at the sickle, weighing only about six of seren poumbs, a lithe more than a common grass acythr, and its cut in all ordinary machines is not mare than a square fool at a stroke. Next, consider a man with his graws segitio, insteat of one foot at a stroke, he cuts about ten or twelve. Now compire the forecs emploged. The one is the man's arms, the other n "sweater" for two horacs. Next, contrat the itnphements - the one weighs about diren pounds, and the other about from trelve to sixteca hundred pounds, and at the eame time the ecy the does quite as much work white in actual opermion (i.e. forward cut) as does the monster drawn ly tro horaes. As regards the quality of the work done by machines in general nse, we cannot expect much to improve; but in regard to the awkward, heavy aud complicated ranciinery emploged, horee-flesh, ns hell 2 g good conuren sence, call loudy for improveraent. I have pulled of and cut aray nearly a quarter of my old machine (Et. George) this se.son and made wooll for the fire and oid cast iron for the foundry, and thereliy saved about tae dranght of a heres in working it, with mo detrment to its worling e.pacitios; and yet thro i: cnough bufs of cach material, if righty emploved, to make two or hrece machioes. Buring the en-uins winter. as toon as the busy work of the farm is over, 1 inecoul to make a machine that rill not be more than a gurrter the weight of the lightest machine thave yat sem, and at the same time it will posacea equal if not superi-ratreng th to the heaviest. Whether i; will work, or fail to work, on trial nevt fe. 180 n. will mit elange my notion of the groundless nceeisity of su mach "wout and iron."

## The Clatia ditume

tononto, lpper chind.a, Nov. 1, 186.

## Causes for Thanksgiving.

Since our last isgac, "Thanksicina Day,"-now estaillished, we are glad to beluree, as a national in-stimaon-has been obsersed; and at the call of our gorernment, the whole country has joineal in grateful acknowledgement of the Divine mercies. White mans hept the day merely as a holiday, the great majority of our population mingled religions roorship wih their festrities, and presented thantiful ho:a, ge to the Giver of all good. In our view such an ubsersance is cmanently proper, and the boumden duty of a Cluristian people. We hope to see it kept up year by year aq a national " harve.t honce."
1: i- comparatively casy tu be thankful in tie midst of prosperity and abundance. The somerh it ireverent remark of the toothless old tady at the li ner table, that it wonld be easier to be thanarlat the meat were not so tongh, indicates a tendm. $y$ in luman nature of which there are numerous and constant :llustrations. At present, we seem to be emerging out of a condition of straitaess into one of comparatue comfort. Fo: some time past the country has been in the merciless grip of "tight times." Now, however, the epirit of commeree is reviving again; trade shows briskurss and vigour ; money, as business men say, is "ensier;" and a general feeling of hopefuluess is taking the place of despondency. The face of societs, recently clouded with gloom, is brightening up and beginning to wear a smilc.
This change is verg much owing to the hountiful harrest which we hare been permitted to gather. Afer several unfaroutable seasons, the carth has again yielded all manner of store; and with abundance of products, there have come high markets. With plenty to selh, there is no lack of buyers. Almost erery marajtable gommgdity is readily con-
rertible into moneg. It becomes us to acknowledso the goodness of God in all this, and to bo mladful of the source whenco our blessings are derived.
In nithing, perhaps, are we so preno to absorvo murectices from re-ponsibility, as in a ?gard to our harveste. Yet thry nre more dependent on buma ageney than tre are apt to think. We do not now refor in skilfulness in furming, although, unquestionably, Sailure ofen resulte from want of proper cul ture. Mach may very justly be said about unwise cropping,-neglect of proper rotations,-manuring-drainage,- care of stock, sc., and ve are accustomed in these columas to giro "line upon lino and precopt upon precept" in refereaco to such topics. Bit we have now more particularly in riev moral teaponsibility. Every attentive reader of tho Blble must have been struck with the forcible uticrances of the ancient prophets on the connerion between the discharge of religious duts by a people, and tho enjorment of bountiful seasons. What appliod to Jervigh agriculturist., applies no less truly to tho farmers of Caunda. That volco of Divioc majesty which said of old: "I called for a drought upon the land;" "I smote sou with blasting and with uniteew, and with hail;" is not wholly silent in those days. It was not a superstitious feeling which in the olden time tracel blasting and milder, drought nod caterpillar, to a superhuman agence. In this age there is a tendency to an opposito ex. treme. Xature and second causes are alone looked at, and there is too little recognition of that resistlese anil onaipresent power, to whoge behests all human plans and labours are subject. Man may plant and water, but God giveth the increase. Tre are far from amrming that erery failure of the crogs is a Sirine judgaent for national sla; but we do not besitate to say that there is a principle involred in this matter which is well rorthy our attention, and of which we are too apt to lose sight.
It is doubtless the special province of the pulpit to bring out and enforee these aypects of human reeponsibility, and we could bave wished that greater prominence had been givea to them, than, judging from the newspaper reports of the recent hanksgiring discourses, would appear to :ave been done. The subject is of grave and unirersal interest, and is one of many illustrations of the fict that enlightened patriotism and intelligent piety are close allies.
Some one has remarked that "the course of natare is a standing miracle." An cloquent writer observes:-"If we could see tho wheat woren by fairy spinners, apples rounded and painted and packed with juice by elan flagers; or if the sky were a vast granary or propision store, from which our needs were supplied by incisible hands in response to verbal prayers, who could help cherishing a constant undertone of wonder at the miraculous forces that eacirele nas? But consider how much more amazing is the fact! Consider how out of the same moisture the various flowers are compounded; the dew that drops in the tropics is transmuted into the rich orange liquor and banana pulp, and sweel substance of the fig ; the pomegranate stores itself with fine fagrance and sarsur from it; the various colours ard qualities of the grape are drawa fromit; and in the temperate orchards, the rain is distilled in the dark arterics of trees-into the rich juice of the peach and the pear, the apple and the plum." All nature proclaims our dependenco on the Great Father oboro us. Not all tho skill of man could make a siaglo grain of wheat germinate, or a blade of grass shoot, did heaven withbold the fructifging infuences which are its gin. It sarely beiter bofts us, helpless pensioners unon the Divine bounty as we are, deroutly to recognize the hand that aupplies us, than to efpouse the cold, blind, atheistic philosophy of which there is so much in the present day, -whloh taliss mith wise look and leamed phrase about "naturo's laws," but never lifts a loving, trastrul, thankful eye to anture's great and glorious Lapo gịar:

We have other causes for thankagiving besido thoso
connected with the processes of nature and tho procession of the scasons. Oar lot is cast in a good and ploasint lind. Its uatural seenery, varied resources, and ability to support a teeming population, its free, rivil and religious institutions; its antecedeuts and privileges as part of the Briti-h Empire;-the justies ot its lawe, the security it eajogs as to life had property; the wisdom of its rulers, its virtue-crowned zuonarch, and stable throno; - are all causes for deroted thankfulness. Immunity from pestulence; de. liverunce from war, by which wo have been repeatedly menaced ; and the long liat of personal and family blessings of which each individual and houschoid must make their own caumeration: surely these thingt lundly call on us to present our united gratithele to Wha from whon "comsth overy good and perfret gin," not only on a day set apart for the purpose, but at all times.
Farmers, as a class, have been charged, whether justry or no we will not undertake to s.y, with giving way to a spirit of grumbling and complaint. Their calling not unnaturally awakens at particalar seasons no little anxiety, and it is easy for this to degenerate into distrust and misgiving. it it well to wate', against these tendeacies. A cheerfa!, hopeful disposition is worth a great deal to the man who must carn his bread with the sneat of hes brow. It is indeed a treasure to erery man who has it, whatever his occupation. Despondeney and repining, serer the sinews of industry, and paralyze the arm of toil. Better thansilver and gold, housesand lands,is a contented mind, for that we are assured on the higheat authority, is " a continnal feast."

## The Exportation of Canadian Stock

Fon some weeks past, herds of cattle have been making their way to rarious railroad depots througho:t the country, and freight trains have largely conwisted of cattle-tracks. There has been a regular buine exulus from all parts of the land. Hogs, too, have been on the tramp. If our American neig'sbours were a mutton-eating people, we should have to record the fact that the sheep also were fast leaving us ; but they eat mution so sparingly that our florks are not much affected by the present eager demand for meat in the United States market.
Some people are greatly alarmed at the wholesale axportation of cattle and hogs which is now going on. They think the country is being drainell uf westock, and look with glojay fuccbodiag at the prorpect of searcity, with its attendant high price of meat. Su: this is a very supericial view of the matter. The tire stock which is bring sent out of the_country, bears a very small proportion to the namber of animals owned by our farming popuhation. It requires a large amual sale of stock to work of the natural increase of the herds; and allhough there has been unusual demand for live prociuce this full, there is no lack of young stuck left. Our furmers are not so foolish as to leare themselves without breeding and growing animals. The meat market will be rather higher than usual this winter, but our brisk commerce has put a good deal of money in circulation, the consequence of which will naturally be the invigoration of business generally, and consequent ability to pay higher prices for the necessaries and haxuries of life.
The state of things just noticed will have a beneficial teadency, by encouraging oure farmers to pay more nttention to stock-raising. Neglect of this is one of the woak points of Canadian agricultare. The plea in defence of nergect has been that it did not pay to raise live stock. Especially has the idea been prevalent that it was a losing game to raise pigs. The peas and corn required to fatten them were more proltable sold in the bag, than sold in the form of meat. Stock must be kept on a farm if there is to be a proper supply of manure. No stock, no manureno manure, no creps-aro axioms that ought to be
as familiar as houschold words to every agricultural community. In weighing the question of stockraiking, wo inclino to think our farmers have not bonn rerustomed properly to tako into account the valoe of the manure thereby obtained. This is, how ever, a moat important item in the profit and loss account of cattle-heeping. Another trouble has been neglect or rout eulture. It is impo-sible to heep steck advantagemusly without roots. This fact, and the fact also, that roots play such an important part in a judicious rotation, ought to induce more attention to them. Turnip culture has been pronourred the shect anchor of Britisin agriculture. I. has w rought litthe short of a revolution in farming mathers in the old country, and it will do tho same lere, if it can be mado general. Turnips do not requice to be sown until the hurry of apring work is oter, and that a geason of comparativo leisure may be appropriated to this important crop. They are it prety surv crup. aud, on good land, highly productive aud remuner. tive. In this country they camnot as in lritain, be fed on thogroind. bit require storage. They, how ever, stand a cousiderable degreo of cold, and keep well either in pits or moderntely w.ll-protected cellars.

Many circumstances point to increased attention to stick raixing, as the direction in which the agricat hare of this cutintry neeis to undergo iroprovement The exhantion of numerous farms by too many whate crops,-the meessity of placing le-s dependence on wheat, and more on other prolucts, the better de mad and hifher price for stock, all give proman of a chang in this reapect. The immense mortality anong the sathe in CreatIritain and other Laropeat countries, will have a femlency to kecp up the prien of atock in this country for rome time to come, and should we be spared the vertaton, wheh his wrought ath havoc among the herets of the utd world, our farmers may confidenlly expect that stuek-ranang will be more remaneritive than it has brea. If trat that the precantons taken by our own wh the Unied States governmentw. Will prevent the mfer:an
ondine its way neru ; the Athantic, anil that the branch of agricultara! industry may receive no eheck from that soure.

Tho present is not only a good time to rine more stock, but to izaprove its quality. Gur firmers. by selling on inferior animals and kecpiag theis choier ones,-and now that mosey is a lithe mure plenthat purchasing improved :to"n. and drivam theirfemenes to well-bred aminala, mis in mach toward gettog
 which they will do wall to mahe the tuont of. 1 costs no more to keep a good anmal than a poor one -in most cases it costs lona. and it shoutd be the ath of erery one ts heep up with the are in repect to improvement. We say to our tyacealtaral reater


Mlstael of the Pristen.-Mr. Chathes Armuh of Paris, has called oar attentio. to, a typographical error in our account of the recent Esibibition, which we g'adly correct. We shatel tias* in grapes, Mr. Arnold "t toon secuad prizus." It dowh hare been " took several prizes."
T'm: Catine I'lagl: il Batat..-Fie have an artich on this rubject in tgpr, but from a press of editorinl matur, we are compelted to defer its pubhication till a ur next iswac.

## Exhibition of the Vaughan Agricultnral Society.

We hat the phacure of atten ling the autumn Show of this flourinhing Sociaty, which took place at Woodbridge on We.lneslay, October $\mathbf{2} 5$. This bustling litlle village is situated in the valloy of the IIumber, and is delightfully surrounded liy the hills which form part of the water-shed of that river. From an early hour in tho morning, buggies, waggons, and amost every variety of vehicle on wheels began to pour into the village, and to delirer their freight of human beings at the doors of the several taverns. Towards noon tho placo was as busy as a bee-hive, and every available nook and corner, where a horse could be "anchored," or a vehicle placed, wero occhpied. The ground on which the chibition was
hed, is a large, partially cleared dell or "fat," situated below the level, and on the south side, of the village. The turnpiko is parallel to, and closely adjoining, the west side of the ground, and around its eastern, and part of its southern sides the riversweeps in a circular bend. Iorses, calle, sheen, piss, poul-
ry and agricnitural implements mero regularly dis tribnted ronnd tho boundary fence; while to the horticultural and dairy producte, and the industria? diaplay a largo and commodious tent tris approper ated. A large circular epace in the centre of the ground was enclosed by ropes and stakes, and war reserved exclusively for exhibiting tho horecs. Thi show ground was well patronized during the entir day, but more "specially so in the afternoon, whell a largo crowd -abicanting, it was estimated, to ovet 5,090 persong-was assembled. In nddition to the Fhir proper, there wero numerous other attractions offered for the special delectation of tho less knowledge of the assemblage. Quack doctors, artful swindlers, unprincipled cleap Johns and boarse peep-show proprietors, were present on the slow-ground in condiderable lorce, and loudly barted for patronage and support, olfering sundry and manifold allurements whererithal to "wheedle" the cents out of the pockets of tho devoted "gons of tho soil." In thit task, these astute corsairs of society seemed to succeed pretty well, and would undoubtedly leave Woodbridge with purses considerably replenished. The reather, after some checring blinks of sunshine in the early part of the day, began to be somewhat clomly towards moon. It kept fiar, however, though apparently vod'r protest, and this was, or ought to
 there was considerable delay in getting the various articles convrged to the show-rround. Ii swathence, dowewhat past noon before the judges could commince their datiew. Once started, however, they Wor -ed with a will, and we are glad to add that, so far as we could learn, their decisions were satisfactory; The Secretary's books sinowed a large list of euhins in erey depar.ment of the show. As usual, hos ine r. siceral ammals and artieles entered on whohs wre nut furbeoming on. the show-ground. The disphay of hozes, was very cieditable to the listries. Some fime pairs for general, as well as for pardy articataral parposes, were exhibited. The samews and sadule loorses presented a fine appearwhes. when their trotting capabilities were exhbited in the ring. Cathe also formed an atractive feature ot the slaw. Some very fae animals were exhibited anoug the Durhums; white the same remark applies to the Gallorray3. Grade cattle mustered gtronger than the other clowes, and some of the specimens would be duhimlt to surpass, at any exhabition in the Protilies. Yohes of oxen, of which there were five showa, were, without exception, splendid animals. and gave eridence of much docility, combined with greatstrength. Thesheep clases were pretty well represented, Leicesters and Cotsoolds appearing to be the favourited. Among the forme were eome very fine aumals, which, in point of excellence, left but little to be desired. The Cotsmold pens, too, Nhowed some rery creditable specimens of the breed; while the Southdorns, of which there were a few, were hardly equal to the classes just named. We notiend a single pen of dre Jerinos, that at all events had the distinction of exciting much curiosity, and of eliciting many remarks, not always of admiration. pigs of both large and saall breeds were well repres. anted. Some of the former were really handsome animals, while a few of the latter were as coarse as the most devoted admirer of the large Yorkshire breed conld desire. Uf poultry, there were abont twenty coops, some of the inmates being very fair birds, and others only moderate. The white turkeys, geese, and Aylesbury ducks formed the most attractive features of this part of the show. The implement department was pretty well ulled, and some of the articies were particularly good. The principal exhibitor vas MIr John Abell, of the Woodbridge Agricultural Imple ment Branufactory. This gentleman ehorted a line assortmens of ploughs of various kinds, chaf and straw cutters, and a combined roller and clod-crusher. constructed on Cambridge's priaciple. This implement is in twenty sections, weighs about 15 cwh., cost $\$ 70$; and must altogether be a valuable acquisition to the occupiers of btrong, clayey soil. After examining Mr. Abell's implements in the show ground, we paid a dying visit to his manufactory for the purposo of inspecting several machines, which had been intended for exhibition, but could not be completed in time for the show, in consequence of the illuess of one of his principal workmen. Tho mechanical appliances possessed by Mr. Abell aro numerous, and really excellont; some of them having been im. ported from Britain. The machines and implements for arricultural purposes which we saw in the building, in every stago of their construction, were characterized by cxcellent workmanship, and appeared well designed for the several uses intended. In consequence of the great pres of business at the timo of the lato Provincial Fair, Mr. Abell was unable to compete at London-a circumstance which is someribat unfortunate, as his implementa are really excollentls constructed, and deserve to be more widely known. To retirn to the show ground. The
romaining portion of the outside dixplay cousisted of woves, bupgies, waggons, and other miscellaneous - Aellas. Ilagsert \& IBros., or Drampton, bud a couple "laproved sioves" 0:1 the ground, which hive in.porecenty patented. by a coutrivanes, whish is

I' :r mimple it not ingeniviss, the patenteres cham in estin a certan amount of heat host havery other
 doner, sermed wedi contrucied, and very distefully
 -rborately panten
In the teat was at yariod and mant attractire dis口' $y$. 'The dairy produes wore excellent. and some -i ilne butter nas reatly eleganty got ug. llome :a me bread looked wholesoms and iariting ; what atary and bone-made wines were well represthen! I Ir Clisplay of roots and horticalaral praducts, is : coblly apples, was ver tine Gram, of all kuds all ladian corn stowed well for the framing sh. 1
-I sonl of the coanty. C losely adjoining lay as "pice !.:1 samphe" of one of our hacot caudidater hor rewhatral hommars, on the shine of a rphenciad anch of has fibre. is was cenkited by Mr. J. A oastition, of the cit. The same sumple tuod the a- prose at the lroxmm Fars and wis sutched aid prepared by Mr. liea, of loat stant y. Amoné - tuer armeles, too numerous to meation. were a bine ssurnamat of boots, with lizphly oramental soles. lite ladnes depariment prosented at rich and rarad

 anh. croche: work, embroidery. finey haiting, and -htoms other descrmptou of bemmet handy-wolk. $t$ aered cand of admerers. Wic noticed be the
of that the tirst prize " genthe:nants share had the - anewhat sugestace emblom of a pair of choves, reyeremed as tondly coonn: worhed on that partic-
 in 'ed to cover the heart! The fortumate wearer of hand hatt, whll the magic devece easamot fath to lave ta hasd of perpertal elysimm. We regre: that fpact
 t.aces of thes department. We nill therefere rum up
 t: he ne! by the lair ladies of Vaughan, gave favout dhee evdence of their taste, ekin, and industry.

## ,Vest Riding and Township of York Uwion Exhibition.

Tut: Cnion Show of these Socheties was held at o.kville oa Wedacsday and Thareday, the 11an and 1 th d.sss we October. The spiesed villuge was deck


 be ar the Twwa Hisul. The weataer was particularly f.a ourable, and a fair gatheang of vaitors was attaceded to the diephay. The benll pooper was devoted to the show of fruits, flowere, fare ate laties' wo:k, and some mi.cellaneons articles. Three tables run rang te lenath oi the buidung were loated in this way. as well sas the phatorm at it eads. la the rooms uaderncotat were arranged the grain, seeds, booss. de.; while ontside and in the rear of the buide H: the live stock, puntry, and agricultural imple usents were exhibited.
Cf horses, the list of entries amounted to somewhat over foriy; but only a small proportion of this num oer actually appeared on the ground. Some of the animals were possessed of good form and action;$0 \cdot 50: 3$ again, were oaly moderate. Cathe uppeared :a comewhat meagre quantity, and us a chass were fut particularly credithble to the district. The Gal lunay and ingus catle, however, blown by Messe. -1. McNeil, of Vaughan, and l3. l. Deniron, of Toron so, were very favourable representatives of their res. pective clasees. Sonse creditable specimens of Lecesters and Cotswolds occugied the pens nppropriated to slecep. We observed that the comb had, in some cases, beca vizorously plied to increase the ziee, and heigbten the attractious of the animals, and tho " tousled" appearauce which restled, was the ieverso of a succesy. In that clase of quadrupeds, Lhe Desh of which is contemaed by members of the Bl"brew persuasion, were some of the largest and biarast specimens that we ever remenber to have ian - ed. The display of ponitry was moderate loh as resard quantity and qualitg. The imple
it dian anfat enusisted of a few phoughe and
hitrows, some of nhich shored superior workmanship, and general ndaptability for tho purposes intemded by tio maker. Unquestionobly the great attraction of the Exhibition consisted in the display of rorntable and other productions in tho Town liall. livosa of all limels were particalariy good. There was a fir supply of fruit when the comparaave latemes of the season is considered. Some di:n flowens in pots. - principally stove honse rarieties. -were exhbited by Mr. Geo. Vair,-the intelligent ciardeter of U. In. Mcpherson, Esq. In otber rooms of the buibling. dairy prodacts, pickles, and honey wrese simw Sural haves of home-made bread also at:rased our attention, some of which looked at leate ons: bilied. Closely adjoining were some bothes of heme-hande wize of a rich carmine tant, which tas ed ot bustiang in particutar. It mioht have been matmia iased, for anything we colldicern to the conrasy, of cither beet or bhebherrios. Fine aris and watane:t.al work formed a delightal featare of tho exhtisiloa. Mas; of the specimens shown merited an er e. la d aviace, did space permit. Nuiseleas Sew ue M..ch ou were in active opmation, and feemingly lad escellent work with a tithe of the nowe pro lace! by thenr "cliching' compertions. Niot the latse ia revang part of the cexhbition was at mamber of h-iser-buove at surior form and tini-h fiom the vetematy toine of Mesra. Emith \& Barry, of this city. Un the whole, the Lition bxhibition was taint Buccrestal, following so cluady, as it did, that of the Conomi.) l:a! Lahbation. It is, however, probably de-trable that an amalgamaion conld be efleced between thone societes, in urder that a harifer disiate. uight be represeated.

## Etobicoke Fall Showr.

Tus anmual Fall Skow of the Etobiccke Agricaltuan Sonicty took place on the 19th ult, at St. Andrews, in a find on the farm of Mr. Holtoa. The grain, rat-, and vegetables, and lades' work, wer ahibi ond ia a tent erceted in the centre of the feld. The formoon was very stormy ; but, after two o clock the das c!cased up, and the grounds were visited by a large number of peonle tho princinal attraction being the cashibition ot hadies' work. The show of lorses was particnlarly Gue, tace being $\hat{5} 5$ entrics. Agricultaral horses prepouderated. There was a considerable number of cattle on the ground. A finc lierd of Devoa catile was exhibited by Mr. Moore liobicole ; und two good snecimens of Augus ben c.hves by Mr. H. Borell. Of sheep there was at large 2.an'ser shown. Mr. John Ackrow, of Etobicoli, , hat - atce pen of Iccicestur ewes; and Dr. !.oveil la... . bun of Somhduwns. Of swinu tuere was a $y$ w. show. Ur. IThumas Smith, Srajinicha, and Juha liat 2ell, Varghan, hand some fine amimals on be gromas. Thore were a few agricularal imptement.. A gans plougl, shown by L. lintterfield, Bradford, way cinamended by the juiges, and be tooli tise first prize for ploughs. .it. Abell, of Woodbintse, had on the ground iwo very good pioudtis; and Mr. iecter Mal. laby, We:tan, cxhibited a set of iron harrows. . 1 strougly made and well-faished farm wayron was sbown by Stingster \& W"att, St. Andrew's. The dis. phay of grain was not so large as that of last yewr. but was very good-clec fall wheat particulabiy so llooss and regetables were a poor zhow. Mr. W:a. Jardine, litobicotie, had some very fine magel warzel, nad Mr. A. Mather, Mshicolke, showed some rery good on:ous and potatocs. The dinphay of fruit was very fine, exjecially that showa by Jir. S.ramel Wood of Islington. who_had as ano a lot of apples as wor cahibited at the Electoral Dirision Society. Dairy produce was well represented, and has rery Gune. We dotibt whether tho butier, cither in firkins or in rolls. conld bo surpassed in any of the other shows In ladies' wotk there was at tirst-rate exhibition. In worsted work, that phown by Mkss Musson, of Weston showed good t.we; tho alisses Marper, of King had a great many arucles on exhibition-a knite d guitt by them mast hare cust a good deal of labour. and their mits and sochs, of Canadian wool, wero all that conle Je desired. Miss Edmouson and Mis Mhather, Etolncohe, hat one or two food eplecimens of ratsed worsied wots on chmbition. Some beantiful :pecimens of loather and of hair work wero also ex libited. Mr. Divid Stewat, of St. Andrew's, hath : fine coliection of boots and shocs-ttronaz and sabstantial work. Taken as a whole, the shon wis on sacce.

## Wentworth Agricaltaral Exhibition,

Tim: Agricularnl Sucieties of North and South Weatworth, and the city of Hamilton, held a joint Exhibition in tho Crestal l'alace grounde, ou tho 10th and 11 th ult. Thu weather was delightfully finc, and the number of visitors oa the second day far exceeded uxpectation. In live stocts the exbibition was above an average character; the hories wero numerous and the quality generally goud. The show of Durhams was quite extensive, ia which a number of specimeas from Mr. Thomas Stock's herd took a prominent position. The Galloways mustered in considerable force, comprising several first chass animals. The Devons and dyrehires were radar inconsiderable in point of numbere, but of good aserage quality. Some of the shecp were excellest, both lons and short woolled,-the Jferinoes attracting much attention. The show of pigs wits sinall, but the quality was decidedly superior, cenecially in Suffolk and Improvad lentishires. Implements wero fow, but of good wortumashlip, pos-asing no special novelty. In the Crystal latace the show of roots was pretty good, consichriug tie ufarourable season. An excellent silecine:a ot the Gresstone turnip was exhibited. ihis is a new hybrid varicty, well spoken of ia britain. amd deserving a full ersal in Camada. Tho collection of grain was pretty extensive, and, on the whole, of quite an average quality. Several samples of lias seed were on exibibition, indicating the extension of the culture of this valuable crop. In fruit the show was meagre, the senson in this district haring been unpropitions. If, howerer, the Sociely had chosen to extend atergate premiums to garuen and orchasd protucts, there is no doult but the nell hnown horticultural skill of llamilton and its neighlbot:hood, would have well sustaiaed its wome! reputation. The exhibition afoaded another stron: proof of the adratages of a mion of different socuties, and the arringements refected great credit ot the board of management.

Larer. Foots of Bert.-We lately recuited froba If. Nobert Brace, of Narkham, two inmense roots of bee:. These fino specimens obtaiacd the first prize at t:e Whitchurch Fair recently heh at somfrumThey tex sared closo unon two feet in length, an! at.' too: weighed somewhere in the neighbourhood of cicren pumatis.
"Ilosoere to whon Hovork"-We are not ovis rensitive abon: newspaper credits, and we are well :thare how, in the hurry of scissorizing and itemizme an ill extracis may fail of getting proper achnow. ledgment. lat when articles of weight and length are iransferecd bociily from onr columns into thoso of othe: jounas:s with:ont the credit, we confess that We cannot attrihnte the thing to mere oversight.-Our agnicultusal contomporaries are with scarcely an cxception, scrumbonsly honomrable in this ses pect, bui for some time past an eastera journal hes made extrennly fiw use ofour editorials and corres pondeace. so mach su dat forbearance on our part las ceased to be a virtue, and we theretore respece fally request our coniumporary henceforth to give "honour to whom honour."
Thial. of l'gorghe at Smocffinem-We learn diaz at the Fall Fur of the Whitclurch Agricultural $\mathrm{S}_{0}-$ ciety, held at Stoulrille, on the 15th inst., an cxciting and rather noicl trial of ploughs touk place. The Ditecions of the Socivty bad risely determined that all the phoughe shorlil be tested by the Dynamometer before the arrarde wro made. The trial came of in the presence cia large number of tho best ploughman of that section of country. It was deliberateiy and carcfully zone about, and decisive in its resalts. A plosigh mad by Mr. A. Dancan, Gormley, carried of the prize, its dimi:ght being 50 los. less, white plunghiag one inch deeper than nay of tur othery The implement was of the most approved build and faisiud workumashiy, and called forth tho apuaiad commematition of the julate.

## Agritultural zefutelligencrf.

## North Riding of Wellington Show.

We learn from the Guelph Herald that the eighth annual Exhibition of the Agricultural Society of the North Riding of Wellington, was held in Elora on Wednesday, the 11th inst. The weather was auspici ous, and the concourse of competitors and spectators probably exceeded that of any previous similar gathering, while the show itself in the quantity and character of the animals and articles exhibited, cer tainly eclipsed those of previous years. The exhibition of live stock was worthy of all commendation.There was a very fair show of horses, and the young er animals gave promise of a still greater improve ment. In cattle the Durhams gave evidence of being the favorite breed. There was a good display of bulls, a two-year-old thorough-bred Durham, owned by Robert Cromar, Esq., being a very fine animal.In sheep the display was good-far in advance of last jear. Messrs. Tindale, Gordon, and Metcalf carried off a large proportion of the prizes. In swine the show was indifferent, but there was quite a fair display of poultry, showing that adequate attention is paid to that not least profitable class of farm stock. The samples of grain and roots exhibited were alike nnmerous and excellent, Mr. McQueen's first-prize fall wheat, and several samples of other varieties of grain, for which the Messrs. Hunter and other exhibitors took prizes, being of very superior quality. The show of roots was very fair, the varieties of potatoes numerous, and most of the samples excellent. Turnips were good for the season. In the class of dairy produce there was not much competition for salt butter in firkin, but in fresh there were sixteen entries, and in moderately salted seventeen. The dairy department gave evidence of much skill and taste on the part of the farmers' wives and daughters, the samples of butter being not only excellent, but most tidily got up. The display of fruit was the best we have seen in North Wellington. Mr. G. Armstrong of the Fergus Nursery, and Mr. B. Bolding showed some fine varieties of apples. Some very fine pears were shown by Mr. J. Burnett and Mr. John Beattie The domestic manufactures have ever been a favorite and well-fitted department in the North Riding. We notice that Mr. James Gordon, who took a majority of the prizes for many years in this department, has found formidable opponents in Mrs. Jamieson, Miss Couse, Miss Kelly, Miss Bain and others. In the mechanic's department, the show of buggies, cutters \&c., was very creditable to the builders. The ploughs were tested in a field adjoining the village. Two handsome prizes were offered by Mr. Major- $\$ 20$ for the best iron plough, and $\$ 10$ for the best wooden do. In the first class the judges decided that the iron plough belonging to Mr. George McInnes, Fergus, was entilled to the first prize, both from its mak and finish, and on account of the work. A very superior wooden plough by Mr. Robert Anderson, of
Alma, won the prize of $\$ 10, \mathrm{Mr}$. McInnes coming in Alma,
Becond.

Toronto Gore Fall Exhibition.-The annual Fall Fair of the above Society, took place at Clairville, on the property of J.P. Delahaye, ' Esq., adjoining Mr. G. Smyth's hotel, on Wednesday, Oct. 18, the day appointed by his Excellency the Governor-Gencral for thanksgiving. The grain, roots, vegetables, and ladies' work, were shown in a large tent erected in the field. The morning was rather gloomy, with slight showers, but cleared up by noon, and by one o'clock quite a large number of people had collected on the grounds. The horses, cattle, and sheep, were of fine quality, and showed that the farmers of this locality are giving a great deal of attention to improving their stock. The show of horses and colts was particularly fine. It was the opinion of those qualifed to judge, that they would compare favourably in quality with those shown at the late exhibition in London. The show of farming implements, although not large, was of good quality. The grain and roots were excellent. Exbibitors evidently were particular not to bring anything but the choicest tinds. The ladies' department was well represented. Some fine specimens of needlework, knitting, quilts, rugs, wool-work, leather-work, \&c., shown, were denerving of all the praise they got from the visitors.

A sample of the second crop of hay has been exhibited in Quebec, upwards of three feet in length.
s-A small freehold estate of about 214 acres, in the Parish of Merton, Surrey, and about 10 miles from London, was lately soll for the ex':aordinary piod ef $\mathbf{2 6 0 , 0 0 0}$ baing at the rate of $\mathbf{2 2 5 0}$ per acre.

Omo State Fair.-From the Ohio Farmer we condense the following statements as to the success of his Show, which took place at Columbus,Sept. 12-15th:

The show of cattle of the Shorthorn breed, was better than we have anywhere seen since the great show at Dayton in 1860, when the prize herds of Ohio, Kentucky, and Indiana, so stoutly contested for the palm of excellence. * * *The quality of those on exhibition was of marked excellence, and there werc enough in number to show that we have the means among us to bring up, within a few years, an interest which in former times was the pride and glory of Ohio, and which contributed in a great measure to the solid wealth of the State.

As was to be naturally expected, the sheep de partment was filled with a numerous and notable host, showing the progress which our wool-growers are making in the production of one of the greatest staples of domestic consumption. * * Besides the main feature of fine-woolled sheep, there was a handsome show of South-downs, and a still larger show of Cotswolds and Leicesters, and a few Shropshires. The raising of these latter breeds of sheep ought to attract more attention than is at present bestowed upon it in this country. The increasing demand for this sort of wool, and the greatly increasing demand for mutton, in connection with the special adaptation of pasturage and markets in certain localities, point to this as a profitable branch of neglected husbandry. The growing of these sheep, though considerably on the increase in Ohio, is still far behind the greater increase of denand. Large wool-growers can pro bably do better with fine woolled sheep. On the whole, we believe there has not been a better show of sheep at any State Fair in the country, than was exhibited this year at Columbus.'
The show of implements was also good, and the attendance of visitors excellent.
Georgetown Monthly Fair.-The first Monthly Fair, held in Georgetown, on Friday the 6th, was a reat success. Some three or four hundred head of cattle changed hands, besides a large number of sheep, hogs, \&c., also an extensive quantity of grain and farm produce was sold. Several thousand dollars was interchanged during the day, and a large business done by the merchants and business men o the place.-Guelph Mercury

The Fall Wheat.--The report of the condition of the fall wheat crop in this vicinity is extremely favourable, the late rains having given it a fine start so that it bids fair to attain a strong and healthy growth before winter sets in ; and should there be a good covering of snow during the hard frosts of winter, there is every prospect of a good crop of the staple serial. The pasturage keeps wonderfully good, and the abundance of feed should have a tendency to keep down the price of dairy produce.-Guelph
Froit Northwards.-To show that fruit can be proftably raised in this country, we take pleasure in mentioning that Mr. G. S. Armstrong this year raised in his nursery garden, near Fergas, 100 bushels plums of all sorts, which produced the handsome little sum of $\$ 250$. The crop was an immensely large one, some of the trees bearing over four bushels each. Mr Armstrong is an enterprising and successful gardener but others have an equally good chance in frai growing, and none should be without a few trees of varions kinds-apples, plums, \&c.-Fergus Constitution.
American Instttute Mowng-Macaine Trlal. The judges appointed at the great field trial of mow ing-machines, held at Hunt's Bridge, July 25 and 26, have awarded the gold medal of the society to the Buckeye mower, built by Adriance, Platr \& Co.
Poughkeepsie, and No. 165 Greenwich Street, NewYork, the many severe tests to which the various machines were subjected having developed so man points of excellence and superiority in the "Buck eye," as to fairly entitle it to this award.-New-York Times.
Sheep Sales in England.-Recent British papers contain accounts of the usual yearly sheep sales and ram lettings, from which we gather that there is no diminution either of interest, or of prices. Rams sold at from 8 to 23 guineas a piece, and ewes at from $£ 3$ to $£ 5$. Tups were let at from $£ 3$ to $£ 9$ each. These prices were obtained at what may be called ordinary sheep sales, but far higher ones were obtained at the offering of flocks of high repute. Thus, at the Biscathorpe ram leting, 150 ranss were let at an average of $£ 16 \mathrm{9s}$. One animal brought the extraordinary price of $£ 137$. Our Sheep farmers are as yet but partially awake to the value of choice animals, as improvers of their flooks.

Large Drove of Cattle.-Drovers, American and Canadian, are doing a heavy business between this and 0 wen Sound. Last week nearly 800 head cattle came down the Owen Sound Road, on their way to the American market. Mr. A. Speers, of Gait, had 220, and Mr. Thomas Head 150 head-the rest were owned by American buyers. Everything on hoof in that district is being bought up, and fat or lean, all are making their way to the markets of our cousins across the border.-Dumfries Reformer.

Ofer Spectlation in Grain.-The New York Commercial Advertiser says that the grain speculation in the West appears likely to result disadvantageously to that section. Large amounts of breadstuff's have been bought up by speculators, upon the supposition that the crops will prove largely deficient, enabling the holders to realize a handsome profit. The movement has checked the natural flow of flour and grain to the seaboard, and resulted in the general rise in the prices of those products. But a short time can intervene before the closing of the canals, when it will be impossible to forward the usual proportion of crops east, and the result will be that the speculators will have to carry their stocks until next spring.
The Price of Stock in New York.-Everything on hoof is running up in price, and some people wonder how American buyers ean afford to pay the price they are doing. The reason is simple enough-the prices they are getting at this time are enormous. Fo: ex-ample:-In New York milch cows are in active demand at $\$ 125$ to $\$ 150$ in greenbacks-at present rates being about $\$ 102$ in gold. Thus, if an American buyer picks up a likely beast for $\$ 30$ here, he can nearly triple his money by it in New York. This is the secret for the great run upon cows of late. In swine, too, the prices hold good, 14 cents in greenbacks being paid. In beeves the sales have become a little dull, under heavy receipts, but best cattle sell as high as 18 cents per ponnd. No wonder, then, at the price being paid here.-Es.
The Cattle Exodos.-A number of American buyers are now, and have been, through the County of Brace, buying up large numbers of cattle-fat or lean. Droves have been gathered at Fort Elgin, Paisley, and other places, and forwarded to the States. The local drovers have, in a great measure been driven out of the market by the $\Lambda$ mericans Who, we understand, give very good prices. Our Port Elgin correspondent says that $\$ 70$ has now been offered for Mr. Scott's three year old heifer. A fair was held at Fort Elgin on the Saugeen Show day, and about $\$ 1,000$ changed hands. The farmers o Bruce have raised great numbers of cattle during the last few years, and now have a good chance of getting rid of their surplus stock at prices which will well repay them, and leave a great deal of money in the County.-Paisley Advocate.
Pori Ribing.-The price of pork is evidently on the rise, or as the market quotation sometimes states "dead hogs are looking up." Yesterday, one splendid hog sold in the market at the rate of $\$ 875$ per 100 pounds, and other purchases have recently been made in this city and throughout the country at $\$ 9$ and $\$ 975$ per 100 pounds, according to quantity This price is of course for flrst-class. A great dea of light pork comes in, however, which does not command anything like the above figures. Farmers wil profit no doubt by holding their hogs over till the season is more advanced, and fatten them well in the meantime. There is every reason to think, from the present demand, that the hog trade will be more brisk this year than for a long time past. The principal need is for export demand.-London Free Press
Nova Scotia.-In accordance with a suggestion of the Board of Agriculture, and a recommendation of the Agricultural Committee of the House, the Legislature of this Province at its last session voted a sam of $\$ 10,000$, for the importation of stock, with a view to improve the breeds of horses and cattle in the Province. The Journal of Agriculture, published at Halifax, states that after much consideration it has been determined to purchase both horses and cattle in England, and to defer the final arrangements for the importation till December. It is found that there will be facilities for having the animals brought out in a comfortable manner very early next spring, in time for use next season, so that the advantages of a fall importation will to a certain extent-be secured ahout the risk and expense of having to keep the also ths over winter in the Province. It is probable a
voted by the Legislature such surplus sums as can be spared, after providing for other requirements,--Ec.

## giorticuiturs.

## New Cunadian Hybrid Grape.

Mr. Chamesi Alsoon, Numery man, of laris, has been for many geat experimenting wha the grape, in order If nossubte on produco a fruit suniciently bardz to thave in on climate, and yet haviag :
tory of the process of hybridixing, may prove inter esting to such of onr readers ay are not familiar with it. l'revious to the flower of the grape opening, the upper portion or cap, which in the course of growh is raised up, not busting and spreading out like many fowers) is carcfully cut of with a pair of scis-ors, thus exposing tho phistil and anthers. The anthres, or stamens, are then cut out. These anthers
pollen, is a matier of somas dolicacy nad dimiculty; inammeh ne tho bhack Limburg is grown undir chiss, and takes a longer season than an out-loor Enapr, and it is not eary so to the things as to have the pollen ready when the plant to bo improved is at the proper stago for tis reception. This dificulty wis, howner, osercome, and a cross effectod between a native grapo of the best rariet $v$ wilus cerdifolian and the Black Mamburg : foresaia. The hybridizin:


 cndeavours.


process protuces no perceptible effect upon the fruit of the first year, but the seeds of the bydridized banch are sown the folluring season, atal the seedling plaits thus obtaimed. ase cultivated until theg come iato bearia:n and wiew their quality. 1 namber of them
will bestanped with the characteristics of one or other of the parents. Others will combine the pectilarities of boh. This is the object aimed at in bybridizing. In the case of the seedling we ate now introducing to notice, fruit was first borne three years ugo. It showed in Mr. Arnold's opinion, sumicient promise to encourago further trial, and the last two sears hare justifed tho hopes entertained of it. Ont eagrariag is a facsimile of arerage bunches, both in respect to size and shape, produced the present senson. There have been both larger and smatior buncles on the vino this year. We give at average one, which the artist has drawn from life, and care fally transforred in its exact natural size and proportions, both as to berry a:ad hmeh. Last yeat this grape was not balf the size it has been the present ecason. Aecording to the known law which govems new seodling fruits, it may be expected to improve for somo gears to come. In regard to its flatour, we are enabled to speak very confidently, having tasted and eaten to onr heart's content, comparing it with the Black llamburg and other grapes. Its foreign parentage is distinctly marked. There is no mistali ing the Bhack Ilamburg flavour, though it is modified by the native stock so ns to be somewhat tarter. This grape has a flesh to it ,-not a solid pulp like the for tribe of grapes, ont a substance more like the liacki Hunburg. Its tartness is decidedly pleasant, and there is no fory taste whatever about it. It is a grape guite equal in flavour to the Delawares grown by its side in Mr. Arnold's garden. We have, howaver, tasted better Delawares than those of tho present season, raised by Mr. Arnold. This year, from somo c.use or other, the Delawares have not quite their usual richness.

We regard this Camadian hybrid as a grape of much fromise, and sincerely trust it may prore all that its origimator erpects and hopes. Mr. Arnold is proceeding slowly and catationsly in tho matter. Ho has no phants of bis new sechling for salo at present, and will send ont none, until its character is moro fills restablished. Tho uncertainties connected with seedling freits are well known to experienced horticultariths. They are so discouraging that it is onlr the persereaing and patient who reap harcests in the tiebl of discovery. Dir. Aruold has shown these $I^{n}$ :itites in a high degrec, nad we donbt not, will in the end gain bis object. He is experimenting with olber grapes, and hasa most promising cross between the Blatck St. Peters aud Clinton, which if it continue to do well, will proro an aequisition. Our readers will wo are sure, agree with us, that the production of: spedling like that now described and illustrated, is an erent of no snall importanco to Camadian laorsiculture. It gocs fir to justify the assertion rupeatedly made in our columas, that Canada is yet drstined w prove a grapo country. Wo doubt not ilat it will ultimately verify to tho letter the glowing description of Camann found in INoly Writ: "a good land, a land of brooks of water, of fonntains and小phis that spring out of valleys and hills,-i land of whe:at, and bailey, and vases."

## The Apple Borer.

Ir is high tinn for those who have neglected to atiend to their trees ia the spring, to see to them now. There uro comparatively few orchards which have been neglected, that aro not iafested by the worer. Tbe trees aro not all necessarily killed that are allacked-but all suffir more or less. Sometimes this effect is not seen; in others not readily. Those trees alone that are seterely atiaclied will die or give umaistakeablo cvidence. And it is not generally surmised that it is the borer that is nfecting the trees, lut some other inscrutible malady: so little are prople acquainted with this encmy of the orchard.
The egE which was duposiced in the 8pring or summer, is now hatched-and the worm is at his depredations. Lon will Gind bimat tho foot of the tree. Scrape off the rough outside lark-and if tho treo appears all healily around tho collar-all is rell. lhit if tark or discoloured ajots aro found, depend mpon it the borer is there, cepecially if a binall per-
furition is found. Follow this with your knik, and
yon will find the worm-from a quarter to half an anch in length. Or wash tho part cleated of hao ontride math, with gtrong lye or zoap-sals. ianpeat several times. This is more satutany if purtormed canliיr.
If the grub ereapes the lye or the semuting of the hnife, eximine the trees agsin in tho wimer or enty spring. Ilo will then make himsef known to a cer tainty. There will be little heaps of dunt or eastings -that is the spot. An orilie will be Goment. Jollow this, and you will get into at circular hollow ot about the site of a cent. If your search is ean! y, you will find the grab heme it late, he will bo fariher up Where be has his gnarters, sometimes 10 to 15 and even is inelos above the ground. lim ean trace him to this spot by a cylindrical holo. This hole will lead you somewhat into the wood it you follow itbut out again to the bark before it stoph. There is your enemy lat up in the pupa state. 10 ady in the pring to cmerge a lly- or rather, n bectle, going nuly on his depredations at night, depositing cess (in May and June) for another crop.
Ono borer will thus hurt a tre to some extent several will make it pate and sichly; a large number will forma circle of hurows aromad the tree-and your tre is girdled-dead. And yet you hatwe only tho littlo heaps of castiags to tell what is the matter. loung trees, because they are tenter. are mostly afiected, and most readily destroped. A little trouble will save a fine orchard.-Itural Word.

## The Love of Flowers among the Working Classes.

Marr instances of the way in which this love for flowers evinced itself came under my notice, and 1 will mention troor three illustrations of the strength of this love as proved liy the eflorts made by individuals. A poor man, living in a close litte back room on tho third floor, and eking out : wretehed existence by ill-paid army work, tianstormed an old Gish-basket into a small garden. In this he had sown a few eimple anatals, but they were all so well growa and tastefluly arranged, that Mr. Sowerby, the judge at tho Russell Square Fluwer show, specially recommended them for an cxita jrize. A poor widor, living in a back celler, into which the sunshino came only for one hour in the day, anxiously watched for that hour to come romb. in the hope that her geranimmmight hate every chance. The resalt of all this care was not tery encuaracio for the plant only just lived and nerer attempted to forer. But yat it was a great comfort. notwithstanding, to this poor wonan. She said to Mr. parkes, "I nerer thought before that a flower wo:ld livo in my room. I did not believe before that 1 should ever caro for anglisizo again in this worli like as I have cared for that geranium. Indech, sir, re got alnost to lore it as if it could apeak." 2 poor man, into whoso room sunshino nover came with n zeal and euersy worthy of praise, made an ambitious attempt at a conservatory by means of an old orange box, and a second-hand window sas?, which to nailed against the wall of the back-yard of tho premises in which be lived, and cxlibited some rery croditible specimens of plants growa under dit ficuities. Thero ras living, at the time of the firs dower show, an old man, whom no one could induce to leave his room. The clergyman, the Scripture reader, and tho city missionary had all failed to move him, and their arguncnts were as nothine to him. Ife had lived so long in ecelusion, that, as he said, "he was nshared to be seen in the street. the people would all staro him so;" and so strons a hol had this strange fecling on him, that for years he had not crossed tho threshoh. A plant was given him in the faint hope that it might supply lim with a fresh interest in life. Ho was greatly pleased, ami bestowed macle care and attention upon it, and at the time of the show brought it in his orrn liands to the room, saying that he would not trast it to the care of any one clec. Mo had a prize, and. to the surprise of us all, wilhout any personal solicitation he afterwards presented himself at the Sunday crening service, and became a regular attendant there.
Other instances might easily bo prodnced to sho the indiriluat interest which was taken, but chongh hats been said to prore this. At tho workmen's cluth it was an absorbing topic ; a riralry was cstahlished between certain members of tho clatb. Geraniums Were matched against geraniums for the prize, and annualy against annuals; and the bust mode to water the soil nud wash the leaves of tho phants was a frequent subject of discnssion. One man had tho lemerity 10 say that ho could grow a cantitlower and that before another show ho would matio tho attempt Aner tho last exhibition tho nembers of tho rorkinen's cinh wore 80 satisged with their powers as dower-growers, that they said they were
willing to grow lowers agamat any othe club of
 before him, can doubt that, whether wo look at tho peameal results of tho flower shows, or the indiridual interest as proved by theso examples, there is a real love of flowers among the working classes of I.on don. No donbt, indeed, this tastomay bo said to bo innato in nearly all. liacon, Lord Verulam, who is so good an exponent in few words of largo facts. asys that the " Almighty first planted a garden," fend "that it is the purest of human pleasures," ndang " that it is the greatest refresiment to the spirit o man, without which buildings and palaces are but gross handiworks." Thut does the philosopher es. press not only the universality and propriety of the liste for horticulture, but also suggests indirectly its imiliar :tsocociation with architecture.
Tho lowe of llowers anong tho richer classes in London is evident enongh. Rarely do you enter a harge honse withont secing proof of it. And we mas ne certain also that it wond bo more frequent than it is in the dwellings of the poorer and workin classes had thry improred facilities for it.-FI. Dell in Suciety of sirls Journal.

## A Now Horticultural Theory.

Tu: Texas correpondent of tho New Yorle Tribune writing from Castorville, tells the following singul:r story about planting watermelons: When we had stopped to feed ourselvesand water our horses, aboa: noon, on the first, and about fire miles from Ansin, a superanuuated negro man, old enough to be moses: camo dorn to the fence, and, after regarding us owe the top rail for a minute, enquired if we would bay somu 'millions' (wateraclons). Several of us went with him to his 'patch,' which was about half an acto in extent. Mis melons were the largest I t:a ever seen, but there was one monster that loomed up amour its fellows like an clephant among oxenSome ono asked him the priec of it. "All I want is the price of the chicken, salu!: Seeing no chickens about, an explanation was asked: Why, you see, sah, early in tho Spring, before planting timo comes, Itakes a young chicken, as soon as its throat get big enongh, and I feed that chicken with seren dry watermelon seeds-just seren-and just as soon a he has has got dem seven dorn his throat, Ikills him, and sah, I plants dat dare chicken in the middlo of tho patch.' 'What,' said one of the party, 'do gon mean to say that this is the way sou raiso melons?' 'Dat is the wray I raised dat one, salh,' replicd the old man, 'and I'se done the same thing dis forty year, and long nfore 1 was in Tesas.' We satisfied ourselves with some twenty smaller one , whoso parent rine had originated in : ess objectionable place. Who says negroes have no incas of their own?

路 Ox the farm of Segmour Johnson, of Cornwall, Coanecticut, there is a ledge of raspberry bushes standing in the open field, which, on Saturday, the lst inst., wero loaded with fresh, ripe r.spberries, both liack and red.
anj-Cunzcont, put to the roots of dablias, and other dowering plants, will redden them vividly; llowers nearls whitu being thus turned to a deep red, some limes altogether, and sometimes mixed with the lighter hue in a lanlf dozen rarietics, from one and he same root.
Shictennls Psozusis._Sidnes Smith ras onco look ing through tho hot-houso of a lady who was proud of her flowers, and used, not rery accurately, a profusion of bolanical names.
" Madam," sainl he, " hare you tho Scpiennis psoriasis?:
" No," said she, "I had it last winter, and I gave it to tho Archbishon of Oanterbary ; it came out beau ifnilly in tho spritag:
Soplemis poriasis is tho medical name for the serea years'itoh.
Water for Sthamberanes.-I advise strawberty cultivators to suppls both worked and new planta. tions of stramberrics with abundance of water. If licy do not elo so, the plants will not crop uext year The plantations here aro good and well roliaged; hey aro constanty supplied with noater. Tho strawbery faikure this year wias a mistake, resulting from inat:cution. Thero neror wero two finer seasons for fruits and forrers than the ecensons of ISGd and IScij Chalky or sandy lands reqniro to be watercd co niously twice n-treck; clay lands once a-rreck. Now plantations aro mach telped by mulchiog iu bot water.-W. F. Radchifze. Tarrant Rushion, in the Gardeners' Chronicho.

## The 题manditald.

## Oure for Hydrophobian

De Buisson, says the Salut Public, of Lyons, claims to have discovered a ramedy for this terrible disease, and to have applied it with complete success in many cases. In attending a female patient in the last stage of canine rabies, the doctor imprudently wiped his hands with a handkerchief impregnated wlth her saliva. There happened to be a slight abrasion on the index finger of the left hand, and, confident in his own curative system, the doctor merely washed the part with water. However, he was fully aware of lowing account of the matter afterwards. :-"Believing that the malady would not declare itself until the fortieth day, and having numerous patients to visit, I put off from day to day the application of my remedy--that is to say, vapour baths. The ninth day being in my cabinet, I felt all at once a pain in the
throat, and a still greater one in the eyes. My body seemed so light that I felt as if I could jump to a prodigious height, or that, if I threw myself out of a window, I could sustain myself in the air. My hair was so sensitive that I appeared able to count each separately without looking at it. Saliva kept continually forming in the mouth. Any movement of air inflicted great pain on me, and 1 was obliged to avoid the sight of brilliant objects; I had a continual desire to run and bite, not human beiags, but ani mals, and all that was near me. I drank with diffculty, and I remarked that the sight of water distressed me more than the pain in the throat. I believe that by shatting the eyes, any one suffering under hydrophobia can always drink. The fits came on every five minutes, and I then felt the pain start from the index finger and run up the nerves to the shoulder. In this state, thinking that my course was preservative and not curative, I took a vapour bath, not with the intention of cure, but of suffocating myself. When the bath was at a heat of $52^{\circ}$ centigrade $\left(93^{\circ} 33^{\prime} 5^{\prime}\right.$ Fahrenheit), all the symptoms disappeared, as li Ly magic, and since then I have never felt anything more of them. I have attended more than eighty persons bitten by mad animals, and I have not lost a single case." When a person has been bitten by a mad dog he must, for seven successive days, take a vapour bath a la Russe, as it is called, of $57^{\circ}$ to $63^{\circ}$
This is the preventive remedy. When the disease is declared, it only requires one vapour bath, rapidly increased to $37^{\circ}$ centigrade, then slowly to $63^{\circ}$; the patient must strictly confine himself to his chamber until the cure is complete. Dr. Buisson mentions several other very curions facts. An American had beea bitten by a rattlesnake about eight leagues away from home. Wishing to die in the bosom of his family he ran the greater part of the way home, and going to bed perspired profusely, and the wound healed as any simple cut. The bite of the tarantula is cured by the exercise of dancing. the free perspiration dissipating the virus. If a young child be raccinated, and then be made to take a vapour bath, the vaccine does not take.
yat A husband as willing to be pleased at home, and as anxious to please as in his neighbour's house, and a wife as intent on making things comfortable every day to her family, as on set days to her guests, could not fail to make her own home happy.
How to Teach Canaries.-Canaries may be taught to sing entire tunes by means of a flageolet or bird organ, in the following manner :-In ten or twelve
days, when he begins to feed himself, or sooner if he days, when he begins to feed himself, or sooner if he
begins to sling, let his cage be covered with a thin linen cloth eight days, then take the instrument and play one tune five or six times a day for fifteen days, then remove the linen cloth and substitute a green or red one of a thick material. He must remain covered up in this way until he is perfect in the air you
wish him to learn. During this time it is best to put wish him to learn. During this time it is best to put
in his feed at night, that his attention be not divided. The organ should be sweet toned, as they copy with exactness. Some learn in two, and others in six months. This makes a bird a great favourite, and, of course, valuable.-Skilful Housevoife's Book.
The Laundry and Wase-Hodse.-Perfection in this branch of housewifery does not contribute as much to sensual enjoyment as skill in the management of
culinary concerns. Granting that the vulnerable culinary concerns. Granting that the vulnerable point of good will lies in the stomaoh, it follows that less severe if the table linen is not snowy white and smooth, than if the same quality were wanting in the breakfast rolls or cakes. Yet the fame and gratitude springing from our contributions to appetite, are circumscribed to the circle of our intimate triends, while the merits or demerits of our laundries are carried as an advertisement on our husbands' bosoms, launted in every crowd wherein our daughters spread their
crinoline, and flutter out of every window in our houses like auction flags, challenging notice; therefore, to the ambitious housewife, success in the laundry is an ultimatum. Wash-hocse-Even in the smallest establishments, this house cannot be comfortably dispensed with, and we verily believe that one-half the dirt and discontent that mars the happiness of many homes, is traceable to the abominable habit of washing in the kitchen. It is too much for woman-nature to look upon heaps of foul linen, sloppy floors, and all the abominations of wash-day, and not feel disgusted at its close association with her table preliminaries. And yet she is a thriceblessed woman if the finale is not in her own particular chamber. According to the usages of many parts of our country, she does well if her own sanctum is not turned into a pandemonium of rough dry clothes, sweating maids, thermometer at blood heat, and momentary risk of making woful wreck of your matchless baby's face, by coming in contact with a hot iron. We think there are few wives, after a little experience, who would not convert one of the double parlours and its rosewood furniture into a snug wash-house and suitable implements for this indispensable labour. Husbands would probably demur, for they know little of the discomforts of wash-day.North British Agriculturist.
Treatigent of Gold Fish.-A globe will ever he the most popular domicile for these fish; we shall give a few directions respecting how they should be treated in it. When purchasing a globe, procure as wide-mouthed a one as possible, and subsequently let it never be more than tbree-parts full of water. By these means you will secure as much air as possible for the flsh under the circumstances. Keep the globe also in the most airy part of the room, never letting it be in the sun or near flre. Change the water daily, and handle the fish tenderly when doing so. Some persons when changing use a small net, some the hand-we cannot say which is best, but would advise our readers to use that which they may find the handiest. Never give the fish any food; all they require when in a globe is plenty of fresh air and fresh water-they will derive sufficient nutriment from the animalcula contained in the water. Numbers of people kill their gold fish by giving them bread. Now, we do not deny that bread is good for gold fish, and that they will eat it, but the uneaten crumbs immediately get sour and deteriorate the water, to the great injury of the fish.
Two diseases, being the most frequent, may be pointed out as the principal ills whtch it is the lot of gold fish to be heirs to. Sometimes a fish seems less lively than usual, and on close inspection will have a sort of mealy look, and in a day or two this mealiness will turn out to be a parasitical fungus. We have heard of several remedies for this very mysterious disease, but never found any of them of the slightest use. There is absolutely nothing for it but to take the fish, at the first appearance of the disease, and throw it away; for it will not recover and it will infect the others, and thus destroy the
whole stock. We would, however, advise the inexperienced gold-fish keeper, whenever a fish seems un healthy, to place it by ftself for a few days; he will then see whether the fungus makes its appearanceif not, the fish may recover and be returned to the
globe. The other disease is apparently an affection of the air-bladder, arising from being supplied with too little air. We have found fish recover from i When removed from the globe and placed in a pond. When under the influence of this disease the fish swims sideways, and its body bent as if the back were broken, and in a short time dies. Whenever these symptoms are observed, the fish should be placed in a large tub of water, and a small stream of water allowed to drop into it ; the water, through dropping, becomes more ærated, and the fish, thus receiving an abundant supply of air, will frequently recover.Sixpenny Magazine.

## "Wild Oats."

Whon all the world is young, lad,
And all the trees are green,
And every goose a swan, lad,
And every lass a queen,
Then fy for boot and horso, lad,
And round the world away,
Young blood, must have its course, is
An 1 every dog his day.
When all the world is old, lad,
And all the trees are brown,
And all the sport is stale, lad,
And all, the wheels run down,
Creep home and take your place thore,
The spent and maimed among,
God grant you ind a face there
You loved when you were young.

## Whritish © Chtanings.

## Lord Southesk's Tenantry and the Came

The Dundee Advertiser reports a novel and interesting mode of getting rid of farmer's grievances in respect of game. The tenants of Lord Southesk having suffered from the depredations of game on the estate, remonstrated with his lordship, and, failing to obtain any compensation for the infliction, boldly determined to stop the supplies. They had estimates of the injuries done to the growing crops carefully prepared, and when they paid their rente they deducted from the total amount due the estimated amount of damages. Lord Southesk remonstrated and pointed to certain clauses in the lease of the farms. The sturdy farmers, however, paid little regard to his Lordship's arguments, and resolved that if their landlord pressed his claim, it must be in a court of law. They would not pay a sixpence more rent nuless compelled. "Under these circumstances, being determined not to admit the validity of the claim for damages, and finding the farmers resolute to fight out the dispute, a really brilliant idea occurred to Lord Southesk, and he suggested it to his tenants as the basis of a settlement. He proposed that they should themselves hire the shooting over two-thirds of the estate, and thus acquire a compensation in the sport and in the bags it might yield. The farmers readily agreed to adopt this plan. In fact they are said to have been delighted at the opportunity of acquiring the right to shoot over their farms. But there remained the knotty point about the damages already suffered. Here Lord Southesk would give up nothing He refused to admit that his tenants had any right to claim damages. He refused to acquiesce in the deductions they bad taken on themselves to make. To their credit, as men of sense, the farmers withdrew from a position barely if at all tenable, paid up the remainder of their rents, and signed the new arrangement which disposes of the game question for ten years. Both parties have signed a lease, parcelling out the estate for shooting purposes, and defining the rights and privileges of the farmers on one side, and the landlord on the other. The Earl lets, at a moderate rent, two-thirds of his estate to the farmers under the style and title of the "Kinnaird Game Association." The expense of "watchers" is divided between the two parties, but the farmers are to be
at liberty to permit their "guests" to shoot game, at liberty to permit their "guests" to shoot game, provided that every guest so privileged has slept at the house of his friend. Thus the farmers are themselves made at once game-preservers and gamedestroyers. They will no longer be able to complain
if damage is done by game, because it will be their fault if the game become too numerous."

Deposition of Dew.-We learn from a British exchange, that " Mr. R. H. Allnatt, the Sussex meteorologist, has been making observations on the depositions of dew in the recent foggy nights, the reault of which is a conclusion that in his neighbourhood, at all events, the amount of dew deposited in four nights was equal to a ton and a half per acre."
Dogs and Cats.-The following appears in one o the London journals:-"Dogs and cats to board. Families going out of town can have their dogs carefully attended to at the private apartments of the Dogs' Home, Hollingsworth-st. Liverpool road, Holloway. N.B.-A scale of terms furnished on receipt of a stamped envelope. Address the Superintendent as above!"
Plague of Flifs.-The following extract from the N. B. Agriculturist is interesting. It shows that Canada is not singular in its occasional visitations by clouds of insects :-" A heavy thunder shower fell at Hawick on the evening of Friday last, and on Saturday morning a small fly appeared in perfect clonds. For five miles around the flies were in such swarms as almost to darken the air, and it was only by keeping up a constant fanning that people could manage
to make way through the masses of insect life that to make way through tue masses of insect lire that
danced in millions along every path and roadway.During Sunday the insect invasion was unabated, and yesterday the flies were also to be seen though in greatly reduced numbers. When seen through a microscope the insect presents a rather strange appearance. Its body is dark blue with light cotoured
wings. It moves on six legs, and on its head are wings. It moves on six legs, and on its head are
two horns along with an organ very like an elephant's trunk, which it uses almost constantly. A tew people have suffered from its hite."

Thi: Bedfond Steam Celtriatnd Fabmi-Mr. Bowick, Manager of Messrs. Howard's steam cultirated frarus, sends to tho British Agricultural press his harvest results for this season, He says:-"A portion of each field has been tested, und also $\Omega$ considerable bulk thrashed to supply tho demand for seed wheat. The highest produce of wheat is 19 bushels ner acre, wioighing 63 lb . per bushel. The lomest 33 bushels, and tho lightest weight 591 lb . per bushel. Barley, dincoloured, averages 501 bushels per acre. Onts and yeas light. IBenns $2 s$ bushols per acre. Not a sprouted car of any kind on 220 acres harverted, and the wholo in excellent good thrushing condation.;
 rury has the following:-" The unprecedently ligh price of meat, we suppuse, brought into ont market last Saturday the novel importation of a harge nock of geese. Abont fivo handred, wo beliere, were of geashe by boat and rail from Ireland, and three humdred of them were driven up Bridgo Strect by a gonitherd with as little dinieully a3 a flock of sheep
may be driven, and infinitely less than a drore of may be driven, and infinitely less than a drore of
pigs. The gooscherd hala formidablo pole, some ten fort long, wilh a crook at the end, with which he dexterously cuught nuy wanderer by tie neck, nnd redaced him furthrith to subjection. At least two hundred of the number trere sold at 4 s . and 4 s . 6 . each."

Destuctrve Waterspott ni Frasce.-An cxchango states that an extraordinary electrical phenomenon occurred in tho forest of Clantilly two days since. Abont three in the afternoon a water-pout passed across the forest in less than five minutes, destroying almost everything in its passage for a Width of nity yards and a length of neatly five miles. About 600 trees, many of them onks of harge size, wero either broken of close to the gromd, or torn up by the roots, and shivered to splinters. Two of the and Aumont, are so blocked up with the broken trees as to be altogether impassable. The course of the waterspout began about 200 paces from the station of Orryla-Ville, and ended nt the Garrefour St. Remi.
Discoveny of Phosrlatic Defosits in Normi W.ales. -The Scotlish Farmer sass :-"A most important paper by $\mathrm{D}_{\mathrm{r}}$. Vocleker, was read at tho recent meeting of the British Association at Birmingham. giting an account of some exterive phosphatic deposits recently discovered in North Wales. Such a discorery as that to nixch Dr. Vocleter referred is one of the
cerepest internst to British farnerg, becing that tho nino produces apecimeus containing from 51 to 66 per cent. of phosphate of lime. If the expectations
of Dr. Focleker are realized of the sesuit of further explorations, the discovery of this new source of puosplates must exerciso a considerable influence on the price of superplossphates and other phosphatic minures."
Kilued ar Bees.-The Carlisle Eraminer relates the following:-"A rery sudden and melancholy fatality has occurred in the neighoourhooll of Wigton, through which Mr. Toppin, inakeeper, of the IIghand Laddie, lost his life. It seems that Mr. Toppin had gone up to Shea Green to tatie the leonef from somo bees, intending to take it by a methot only recently or o:her the bees seemed to get irritated vers much, and came out of one of the hives, settling on the poor man's head, face, and neck, so as to completely corer them. If ran off to some little distance, and when
follored and found, which vas in a few minutes afterwatds, he was foumd lring on lis face, and quite dead. It gecms most litiely he liad taken a fit of sone kind, probably proaluced by tho pain and fright."
 bibiting the iacreasiag interest manifisied in sheep lusbandry in the "Green isto or the occan," we copy the following from the alumas of a Eritish exchange. The prices realized at the auction conclusively prove that Irish fock-masters can fulls appreciate the ralue of breeding in rams for stud parposcs. The majority of our Cauadian farmers have efidently some con-
siderable progress to mako beforo they cann compare favourably with tho Patlanders in this respect: "Mr. Charies W. Mamilton's annual sale of Shropshiro sheep took placeon Wednesday, and was well athendparts of my Fell knowa brecuers of sucen trom sh parts of tho country, as rell as from england. The
nuction was conducted by Mr. W. I' Irece of Sircersburs. Tho highest prico giren for a ram was
e32 11s., No. 13, wifick was knocked down to f33 11 s. , No. 13 , which wis jnocked down to Mr.
Iloward for tho tmastecs of J. II. Smith Barry. The arerage of the rams was $£ 137 \mathrm{~s} .9 \mathrm{~d}$., and the cnes areraged CS 18."

Tus Man with the Whit: IIat.-The Mu\% Iane Express relaton tha following amusing incidert:"At an agricultural dinner held in Lincolnsitice a fie days since, Mr. W. Norih, whilst proposing "The Toma and trade of Boston," begged permission of the cixirman to excrcise a prisilego concedel to him by the storrards-that of awarding a judses prize, Thich the oullcial juiges had overiooked. It would Wo fresh in the rccollection of mang peevent that at
the last annual meeting ho had the distingmished honour to reccivo a whito hat (roars of hughter) as a prize for tho worst glacking and the most sitovenly stack-yard. Ir had carefully preserved the prize; and harine made an inspection of a great mand farasteads, ho had met with one that he consideled finity entitled its owner to bo the holder of the hast tor the ensuing twelve months, and having bronght tiw l.ut with him to the meeting, he lat vers gra. it perts wat
 (roars of langlter). Mr. iorth aidd the hat had nerer fitted him (laughter), and therefore I - coald sery cheerfully part from it. Ho then, amid the convulsiro lagghter of the company, hande.t the hat and bos orer to Mr. Welsh, and resume:l his seat."
Thi: Exolisa Wheat Cron of 1S60.-A competent anthority has pablished in the British doricu!tural l'ress, the following estimate of the wheat crop ia England of $1865:-$ " As I think many pursoas ane ancious to knor something reliable abont the wheat crop of this year, I send you my estimate of that groma upon this farn:. The estimate of last sear's cron, published September 9, 1861, was 313 bmathels "kis acre, and the actual prondace was wo hushels. ress of the wheat at harvest last ecason; fur it did cot during the jear weirh so nuch ber basbed 23 when thrashed immediately after hazvest. My ostimate of this year is 33i bushels per ecre, $2 y$ near the same quantity as nozsible; therefore we hare, as far as quantity gocs, ata arerage crop of wheat; but the quality being bad, and the of course it will wo per bushel agaisst if last year, of course it will bo deficient in lour-piodicing pao pertics. My highest produce of one fuld of fati clay land is this year 50 bushelsper scre-tice same ats last year; but upon some light lamd, that was blightet in
places, no more than 24
acres will be protucert. The wheat crop may be samzed up as follows-v.z. Upon heary wheat land a rood crop, bui qual:! g not Grot-rate; upo liflit lana a bud crop, and giabity rery inferior. Still I am of opinion that we air wot
mach deficient in the quantity of wheat grow, if we mach deacient in the quantity of wheat gowa, if we there is nothing lite the large cropisot isoikand Ivit..
Gartal and Pantin:simp is Fansise.-The following remarks rere made at a recent meeting of the Wigton Farmers Club, and may prove suggestive to some of our readers:
I therefore proceed with an easy conseinence to adrocato large jarms, as providing, under proper arrangements, what small farms canaot do -hancly, tho foundation for division of habour, mechanicsl appl:ances, consolidation and increase of capital. and tor a rofitable high-pressure rate of p:oduction.
To bring about slowly, but elisechally, this comb:nation of adrantares, there semms to het to he one simplo recipe-Fais Pamparasiry ; and as most neMy plan is this: Let two farmetis join forether, the ono to loos after the tillage, the other to fatie charge of the stoch: and associate with lem a thiral, with sumeient capital to farm some 600 to 1.000 : 2 cece, on the best system. The third may be a slerping partner: or, say the younger son of a comaty gemleman,
to whom might be assigned the chargo of the bovis, the saperiniendence of the machinery, or suet o her special branch offarm busiacss as he may be cibinble of managing. From the oref-crowded state of the professions, buch an opening for the joanger sons of country gentlemen who might bo wiverse to trade Woald, I appredend, bo eagenty snafht. I ca:i hardly
conccire a better position for a young man of good conceire a detter position for a yound man of good agricullurists; and $I$ can conceire no more alvanageous mode than this by which a couphe of cl wer firmers may find scopo for their encrge, ind utilize their experienco and abilits to the best adeantage. Or, as 1 have said, the monied partace mighe to whatis temed a slecping pastucr, the division of pronts heing in proportion to tho work done, or money supplied. To tial ; and t) $t$ a firm 60 constivted, I conceise no hinat would refuse such temporary accommonation for legitimato trado purposeg, as it might from time to
timo rcaniro

## getifrlluacous.

## Sound Dootring for Canada.



 sil tow tho Ladtudo and loughtude of every himan krillir

 riserever it goas 16 in tha right bower of ckonomes and "1 ail w honnur tew piezzitro-tula the day hours nith kimet and dates the
 sast suron golng, how fry su have geng and when it is that ten bunary wolf trud will starvo on yuro trail. "H'anz yu go" tom
 and fraso tow tho sich man, uTongs nun and is Justuss tew all Hero iz an andidoto for much that iz tho phallosopher's stone, bitre ta mono fur manhood; bere lz a learen for cany sized lump liung man, jxs az ya 50 , and when yu gits old yu will not drjart from tif other vartueys will farting claster abous yu, and who $n$ "pa az ja ga."

Tho above clever bit of hamour is from the pen of the renowned Josh Jillinge, tho lingliee philosopher, who, in his peculiar vernacular, gets on some of the best hite of the hest of tho day. The soundest doe trine is contained in this extract, and it rould servo : great purposo if it could be indelibly impressed upon the minds of the people of Canada at the present uso ment. There nerer was, and we question it there ever will be, a time when tho lesson which this teaches is wore necessary, moro to be desired, or nore produc tire of goon; and never before mere they betier able to follow its instractions. Tze neglect of the sumpia instruction-" I'ay as sou go," lins brought abull diticulties and disasters untold. To iss neglect wa can trace halr the ills which the body-pohtic is heir to. All classes of the community, from the labonrer who battles for baro bread, to the merchatat whose bills payable sum np a million, lave dalt tho abuse of tho credit system, and all wonld haro been richer happier, and better men, if this simple maxim lia been more heeded. We may have good harvegood prices, lluurisining times, in the present, : glorious pronpects for tho future, but 14 wit neglect to "Pay as we so." our grod fortune will be misumed. The crisis of 57 . at the ent of a most prosperons period. was the resialt of Deglectimer to "1'ay av wr Th. The depression of tho pasi gear has taught ta
it lesson which wu will do weht not to forget, tiopreaent prosperous suason; aud $i_{1}$ any one thin:? wore than suother shoald beimpre sed on the pepm lir min 1 , it is the sample maxim above iaculeates Iarmucra now can happly pay their ciebte and in 10 tare " l'ay as they gu." Mechanics ant meact can go agool way turiandsit, atal it tisey whit foduw this simple iajunction, gicat sood and tho h.. mo can come of $1 t$. lis its observance, prospenaly be continuons, embiarrassment scldon heard of. " travirgatice and orertradiug will censc, ibnd, in in words of the negro song,
-Trale Revicu.
正面 I man brourlit before a justice of the neace. charged with some petty offenca, plented in extena ation a natural infirmity. "I should hare made a comsiderable liguro in the world, my lord," said be to tho judge, "if I buin't been a fonl; it"s a dreadfal pull-back to a man."
A. Irisa Toast.-The folloring tonst was given at an Irish Society's dinner: "Mere's to the Dresident of the Societs, Patricli O'lafety ; and may his live to t.te the hen that scratches over lis grive."
 fure is to a nation what the main-spriog is to a willed. it is its life, its grand moring porier, it gives energy
and action to all the raried interests of a peonle. and and action to all the raried interesis of a peopic. and as Daniel Webster tratbfully and forcibly said, ' Withnot have commerce.' Phe three stand together line pillars in a claster, the largest in tho centre and $11: 11$ lingest is agriculture.' There isno period-and then can bo nono-in the bistorv of any nation when that great interest is not to be foctered :man promoted. and nono when it is not looked to as tho main bulwark of i nation's strength and hope. Intimes of peace as well as in tines of war this is alike true, and all nations of any imporłanco havo found it true. Not only are those countries tho most prosperous in cycles of peaco which aro mainly agricultural conntrics, but in periots of war (whetlerforeign or domestic), the record of history has boen that they liave uniformly fourthe best, achiorcd the greatest rictories and estah lished the most cuduring and satisfactory peaco."Maine Larnier.
 succeed or fail after rears of enual hbur? (ruaty becomo rich, tho other poor, on the same piecen of haud. Ono has had continued plophing, wind the

 become involved In delet. Tho secret of the wtutu matter, and a truo answer to tho above inquiry is. that the ono considere farming an honorable occupation, and that it will pay. Hence lie makes it hit thade. He procures the best books treatiag on arpri cultire, horticulture, stock raising, de. Ife patronizes the arricultural journals, and cammously immates tho experiments of his brother farmers. In short, he is a " Hook larmer." He considers furming ascience. and $p$ :actices it as a science, and is sure io succeed. The other has come to the conclusion, that. exeept with the luchy fero, the facourch class, furming is is hard. slarish, non-pasing business, and he begins to think of some other occupation for a living. He neplects his farm, and bence it gues iunat ilis stuci. is not cared for, and soon it begins to degeacrate. fwery thing noout the farm is neglected and he becomes boimkrupt and disheartencil. This shao.ad not bu so. Farmiers mas nill suececed it usey will But. in order to succeed, they must love the oce:upation, malio it a stnuy, and practice it upnon corect principles. If their hasat is really in the breme.. they will, in nine cases ont of teit, wi a a muly, ~uc cess. -J w. W., in Mansas Furmer.

## 

## Tornnto Marketh

"Cemada Fankex." OMlec, OLL 31, 1 Era.
Uustncess in poovocr, at this ponit, har been very himited Ibay as the roads to the country taro hitherto been, the recent thave and run has mate them very oucta worse, nod of thuman wio
 Goos The dumand for cercals has boen fatr water light re, ripts,


 rimann otedint and at ratcs coart $r$ the ir thwe $r$ nog tho pate fortminht has been cuto cr thin accustomod to. With the ersortion of tho groer
 at full proge. Tho high proce aro purchasing evorithing thembile
 duction to thetr own country, aud ts wo that, t eng. fat owrath to the Heciprocits Treaty. Although tho prescit citmonimary domand annut bo expectid to bo pirmaneni thert is erery hini h hod thas it will hasi for somo uma and tho concrivencer as $f$ ir as lapala is concerped,
a repeal of the Trasy.
Flour-market ncmiana, no stocks and fere inansacuons Inquiry
 Fati wheat to fatr demand and steads, at fi
Spring Wheat qulet; Ecluvg on strect, at it 13 to 111 s .
liarty actise, at $7=\mathrm{cto}$ to joc pes ulusiel.
truststeads, as 68= to 71 c .
Oats in Rev, demand, at 3 ic to 30 e
Corn unclanged
frovisiovs-linjporing: Butter rood gapply ni 19 c to 22 - ger it for rulls whulesale, daty, in uus 16 c to 192 jor 15
chersempore plenaful, wholesilo 11 to to

 dozed on the strect.
 whotesilo. 25 c , rctall, 30 C .




trip prume do. sill to $\{2 x$
siove Stocl-dressed weight 1st clas $\geqslant 5$ to $\$ 0$ 00; Ant clace
 cach; ratr quantly In tho markot, sheen, 33 so tu st wo cach jer clay-in pood cupaly

## sarce and bigher.










 Sherpskias anit Lambshins, ioc io \$1. Wool, sood coubing nould bring tjc; pulled lambswonl at 4:sc-Spesiator.
torengdou Narketw, -Fill wheat-liforior simpice $\$ 100$ tolit to, far areranc, ti.25 to \$1 is, prim, \$1.05. Sming





Sinclph Minthets, Ont. 2s.-Fall Wheat, $\$ 125$ to $\$ 1$ 7\%,



Eingewtom Mnrketn.-Saturday's markot nas not mo well


 fi zo jer lushal. burley, gool sujply ollerfug al CSE kiye, nut






 by tho sub, wis uffroiat a3c per It. Fops wero wiry scarce; fow I marich. Ilume msdo checse, oc to tov potatoes, $4{ }^{50}$; and




Monitredal Marletso-Ladiaw, Shatcion E Cumpany re-

 Nusucs Curn stenty at cac I cat-: cargoes; sales 90 car
 ovuscory viars




 20 c .



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 rit yilk ${ }^{2}$ a, :tc ti 2S.2c Whashey, i.rm. bartey, ic to 3 c vetter.

## Altertisrmiats.

## A IRARE CHANCE.

CHOLCE GH:APE VINES 4 and 6 scars oid, mostly Concond and
 Thry nero phated too closo in mg bincyarl lonls 6 feat aparth 12. will b ar a good crop nest ycas. Nínt is tho thmo to plant ani this clance may ucrer hapmen anin. Fixery person thatowns agarten thouht have some of thow handy vhes A ringle vtho
 thly jear
Friw of Vines, mindy packed to buxes and deltri red at G. Tr. R.

 Direct-
r2.21-11
Tr. w. RITCTEEN

AN EXPERIENCED FAOTORY DAIRYMAN
IS dretrous of ubtainine a situation as Furcman in a Factory for Feferenres inag belind of In. Fartugton, Norn !chuille, P.O., C.W. for furticer lurticalate, apjols
" $\lambda$. B.," Haysuble r. O., C. $\pi$.
Soramber 1, $156{ }^{\circ}$.
1221-2t

## SPLENDID FARM FOR SALE.

(NE if the bint Furms in the Connty of IIasting is now for Hn, "r tul i, ixiag tho nurth half of Lot Thireen, in tbo $\therefore$ in of hustun, containing 100 acres of mamidecrnt in. in Ahnyugh siato of culturation, alson largo Brtck Housc, barus, Etalles slicds; Orchard, AG
Thero is cxet llent Duck and Woodeock Shoollag, and Trout and other 1 tshitig fas the vicinity.
lisice, f909, ouabalf of which may wo allowed to remaln on mortersa
redt por andum, $\mathbf{8 7 5}$.
Fir further particulars, apply, if wore tho lst Norember, $t$ the propretor. stoviss brans,

## If Nier that dato, 10

MBSEIS DEAN \& DLAYOND, Baviders, Ac, Belloville


PATENT TURNIP OR ROOT CUTTER,
Cuts diferent bimen for sherg or catcle.

Id. B. RTRAN
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r1IIIS preparit on ts a certain remedy for remoring theeo do of structive allections. Erery day brings adculuonal texamony II. L'repami onls by

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2.20

MOORES RURAL NEW-YOREER.
A now Quartcr of this popular doricultural, Iiterary, and Subscrive. Scad \&is fur a year-or, If you wish to know moso ot It Arst, tho 13 numbers of ithl quarter (Och to Jan.) Fill bs sent
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TIFE PRACTICAL 8EXPPIEBED.-This is the latest Standand bust or Dr Ravpaty's Forke on sheep llusbasdry - tho Slandand Authorty on tho atsoct. It colis allabout tho brecdiay, orcty lock-mastor on the American Contident Over : 0,000 coplea alraly sold 0no large 12 ma rolume of 454 pages-minted illes erned aud bound In euperior stgle. sent posepeld an recelp us pnco-12 Addrees
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$T^{\text {IE }}$ remon for Fall Mraslligg beling at hand, the attoniton of
1 Purchaners is requested to the STOCK OF FRCIT AND ORNAMENTAL TREES, \&G, fur Salo at tho "TORONTO NOR RIIFS " this Fall. The varietled are of the most thnny character, and aro
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All Orders by poet panctually attended ta
I would call altenifon to tho largo number of First Prizes awarded $t 0 \mathrm{my}$ productions at the lato Iroviacial Exblbitson, showing that my Nurserle occupy one of the proudest positions in the country. Fisitors to the Nursery will recelve a cordial welcomo and any
information, or a doecrjptive Catalogue will 100 jromplls forwanded information, or a doecriptive Cut
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October 15, 1865
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TWENTY THODBAND ACRES OF LAND, both wid and Im out Upper Canada choap and on cury terme.
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Teronta, Oct 2, 1864
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Tas Carada Famose is priated and publiabed on the lot and 15th of cach month, by Gzomes Town, U. Q where all commu infations for the papor must bo addrowed.
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[^0]:    $15 \%$
    $35 \%$
    371
    389
    $45 \%$

