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# がmadian grotultutist， 

# IURNAL AND TRANSACTIONS OF THE BOARD OF AGRICULTURE 



## August．

The earlier part of this month will be ocen－ A with the finishing of harvesting operations． the present date probably the greater part of fall wheat in the country has heen secured． s gratifying to find that as additional intelli－ re is received of the progress of harvesting I the anticipations of the bountiful character the yield are nearly every where confimed． ：weather has been exceedinerly favorable the work of the seasm，so that we have sin to believe not only that the crops of all As wiil be good，hat that they will be rot the harms and stacks in very fine condition． are glad also to find by late arrivels fom one that the character of the season there much impooved，and that athough an ater－ crop can now scarecly he anticipated，it will pronahly he mach lietter than could have wheretofore hoped for．
asidr；the harvesting oplatious the must antant business of this month will cunsist in preparation of land fo：fall wheat，prepar：－ to sowing，at the cul of the month，or ming of Septemier．The resuit of the past seasons has done much to disial the dircful phonsinns that our fumers were led to enter－ from the reports ficha whe：quarters，of ensisteca rarares of the wheat fo．Either altivation of our farms in this purtion of em Canada，is cleaner and better than in distriets where the fly has heretufore so letely destrosed the crop，and where in
many cases it was the practice to sow wheat year after year on the same land，so that the insect is not propagated here so rapidly ；or the favora－ lole character of our soil and climate enables us by sowing early to get ahead of the midge，better than they could do in those sections；or，again， the past two seasons have been peculiarly favora－ ble for outmancuvering the midge，and we have not yet seen the worst of it，but will learn to our cost hereafter what it is capable of doing．We do not wish by any means to lead any of our readers into the mistake of treating the insect with contempt，and sowing wheat as recklessly as berctofure；bat we confess to entertaining the urimion，that with due attention to the requi－ site condition．．i of soil，to a proper system of cul－ tivation and rotation of crops，and to other necessary phecautions and requirements，fair c：ops of fall wheat may still be obtained，not－ withstanding the prevalence of the midge．The chief conditions requisite are，that the land sh u＇d le fertile and in goud heart，that it should be ut a diy and puruus character naturally，or articiciaily as well drauced as circumstances will ［ermit，and that the wheat shunld be sown early， and be of an early ripening variety．We admit that in the Nuw castle district，where there are sume of the bost Canauian farmers，and where the mide appeared several geas carlier than in the conntic：adjuining and west of Toronto，they were obliged to give up sowing fall wheat almost altogether，and resort to the kinds of spring wheat which will hear sowing late．But we are nut awarl that the farmers in that district were
impressed particularly with the importance of sowing carly, and carly varetics of sced. as a means of escaping the depredations of the insect. Had they been, we are of opinion that they would not have been compelled to abandon fall wheat culture so eminely as they did. In fact, the idear of sowing veay early ripening varieties, and the mode of ohtaning them, vi\%. by hinging seed from the Somith, is comparatively recent. In New Yow State, in Genesee vallet, and other wheat growing distiots, though aware of the advantares of sowing eaty as ancms of aroit. ing the midge, they we:e aftaid of sowing too early, for fear of the auman oprerations of the Hessian Nly. They were thus between two enenics, and the fionesee valiey, so ions, famons for the sxcellence of its erops of wheat, was on the point of anmand mise cuiture of that grain. And hese is amoner season why we think that the comparaticly better system of cultivation pmrsued by our farmers; as compared with that in some parts of the adjoining States and in Lowe Canada, whese these two insects have been so destructive, or some farorabie peculasity of our clinate, may ha:e somethiar to do with the diferent resths here. For athoush the Fessian Fly had bren the mean wi aboust enticly preventing the growth of what in some other phaces where it had appated, we did not fina that it committed very serious damaters here, and after the first year or tion the adam in reference to it quite subsided. De this as it max. however, since they have hit u,oil the expedient of getting early ripening varietics from the south, the famers of Cenesee walley have foum. at least the experiene of the past year or two goes to show, that they cen sow hate enough in the fall to escape mach damage fom the tiess:an Fly, and yet hate the grain come into !?, onn sutficienty carty an s:ming to aroid also the other enemy.

There is: still some diaiuence of oniniom uron the suestion as to whetie wheat to ripra caty shoud le brought from tie North or the Sotiti, aid many bersons ate enite smprised on hearins it said that it sho:th be obaned from the bather direction. This is a very inmotant point and should be established satisfactorily. Aunerous facts support the opinion in fiver of the Sonth. Samples of the same ramety brought from the South have ripened a week or ten days carlier, the fres year, and bought from the No:h
have ripened as much later than the ceopstrors from the mative sced. The veason is, that the phant in the South actuires a habit of conion? eariy to maturity, and this constitutional tendent adheres to it, for some time, notwithstavding it change of location, but gradially luses fert. and atter a few yeas the varicty becomes nat. ratized, and ripens at the same time as the cta: a ative randies.

The proper peparation of the lamp paras to sowing, will consist in keening down wers and stimary the soil, by the wise of the ! !men chltator, of harow, drawing out the mata
 whether it shouid be deen or shatiow. will ispet:
 the cultination it has already received dubart season. On strony loamy ciays, be still chat thene is no preparation for wheat wo men :a $h^{\prime}$ cependel upen as the thorough summer bibion Such lamd shouh receive at least oac, it aro at pretty dee, phoughing during the scasol. s.ne
 tilizing butuences or the amosplare, and thas: give the phat phenty of deph ior the roots a to faciatate damage. After two stoch ! hat ings the amander of the entivatim may $a$ sist in stimg the surace with a bicht phatho
 mante, in ay is applied, thll the time fue mita tu: the seed aumies. Such soils may asoly
 sod the perious atumm or $\mathrm{s}_{\mathrm{i}}$ mity and sum thenty with peas for an intersenisg cepo the per:s can lee got off about the lst of Ause the:e would be ain adsantase in hournime iand as soon as possibic niterwads, to ? wer. the dauger of tainug in case of very dry weate and it would then keep in good conditant ritumg at seed time. Jn case of sowing we atie: yeas, a light mamang will he more ma sary that after the thorough fatow, thand either case this will depend mon the conde of the hand as to fertility, and the previons ctia of coopung. The mame shond he perts decompesed hy turning into heans, or hy w owsting, in order to ensure the destnetia? weed seetis, and covered in with a light s.a ploughing perions to dinlling or ploughans the seed.

In soits of a lighter character them those scribed, that is of a more loamy or porowst
autur, the thorough summer fallow is not so rejuisite, evcept in rense of the land being foul with weeds. Such land may be ploughed up after taving a crop of clover, or fre pasture, in Jus, and be got in good order for sowing loy lst Aptomer; or the poushing may even be left all $\vdots=t$ hefore sowing: and by the use of the land frowr the enges of the furrows pressed down to rrout the grase springing up, and a roorl bed mation the seed, where it would be well corond by the harrow. If ruch land is in good heat, and has been well mamed for the clover, s-und rrup of what may lo obtained without tather inamure. Or such clover ley may be jnisa to joms in spring, and fot into good condito: for whest with a single ploughing atterwads. Th the latter case, or in case of any other
 of mame would be advisable. For a short filow from cherer ley on a iomer suil, the Ushaw: Manufacturing Conquanys Skim Combter Plough is a capital implement. It buries the sod inmpintely from the ioght and air, and sectues it : !n:ongh decomposition in mtich hass time han is done hy the ordinary plonsh.

## Eäitorial Correspordence.

> [No. :3.]
 BITION of FiANCE.

$$
\text { Pams, Junc } \because: 3 d, 1 \times 60 .
$$

This Emmense display oi the agricultual proWetions of France and her colomies has heen ven for the inspection of the public danins the manert week, and will close tomorrow, (Sunai) Men free admission will be granted to all Ar, may be desizons of cateing these truly autifud and extensive rrounds. Hitherto the he..r for admission has licen a frame, (about a the o: a dollar, and it is said from forty to th tho sand have cach day unte:ed the enclo. ae, besides larere mubuers having : right of pe in tress. It is impusilile in the hurry of in mament, and within the limits of an ordinary menenication to comey to cili readers any lenu:te idea of this great gathering ; I must be ment to state a few of the moce prominent cts which came under my own ebservation.
This Exhibition is purely French; all the live oek having heen bred in this country, sud the seal ind other productions representing the
capabilities of the different soils and climates of France are all of native growth. The only exception I could learn relates to the department of implements and machines, in which there are several specimens of some half dozen of the most eminent British manufacturers. A similar exhibition to the present, but on a much amaller scale, was held in this metropolis in 1855, but it attracted comparatively little attention either in town or country. In the following year an extensive international exhibition was held, in which the live stock and agricultural productiots of the British Islands occupied a prominent position; and it would appear, that the unfavorable conirast thenebs produced, aroused the encrgy of the Frinch people, and gave a new impulse to their agriculture, the fruits of which are so pleasingly apparent in the present exhibition.
In regard to completeness of arrangements, cleanliness, beauty of appearance, and other such adj, nets, this show rastly exceeds any thing that I have ever seen, or even imagined. The space occupied comprises several acres of the most leautifully ornamented grounds attached to those of the Tuilleries, which constitute such an attractive and lovely feature of this really splendid city. In the Palace of Industry, a noble permaneat structure, in which the iormer World's Exhibition was held, the cattle are most conveniently arranged according to their respective breeds, and the centre of the building consists of green sod, ornamental water, fountains, and a rustic bridge, with shrubs and collections of the choicest and most carefully cultivated flowers. Straw mats even are put for the cattle and horses to repose on, and the most seduious attention is paid to cleanliness. The capacious galleries above are devoted to the recention of grains and the numerous productions of the soil, with the lighter and more highly finished tools and machines. Out of the Palace are two immense ranges of stalls for horses, with excellent arrangenent for sheep, pigs, and poultry, and the larger kinds of agricultaral implements and machinery, so truly characteristic of an adrancing husbandry. In short nothing has becn spared in the way of experse and artistic design and finish to make this great exposition of a nation's industry, as attractive to the eye as it is instructive to the mind. The French are unquestionably au fait in matters of this kind.

Accorling to the Catalogue,-ah ec volume, of some $\mathbf{t 0 0}$ pages, for which I. paid only a frane,--there are near 1500 entries of cattle. Of these 160 comsist of pure Durhams; 146 crosses hy a short hom bull; 30 other crusses by Ayrshires and othens: in pure Ayrshires; and only 10 of Iferefords, Devons, \&e. Now although no buglish stock formed a part or the Exhibition, yet it was ubrious enough to the most superticial obsemer, that the clasies alove enumerated wene derived fion british blood. The pure French brewds consint of siou entrie: in which the Noman and Betome seatly predominate. There are specimens of near twenty other matise races, whih which hating no practical accquantance, I can ofter no decided opinions. In each das theer are many excellent animals: well suited no doubt to the varied soils, climate, and makets of this sreat country. The pure Eritish breeds being nuw farily intsoduced are certanly destined to make proctess ; and there are many admirai,le specimens of the atlrantage of a cross between' these, mure particularly the Durhans, and the native French cows. The Noman zare are fine and large, resemblug in some respects the short hom, with which they form an admizable cross. It is probable that seceral of the Frenela breeds would succeed in Canada, and make profitable animals: but exjeriments of this kind it would not be advisable to tiry on a large seale, white we can have unimited recourse to the improve! lireeds of the British Islands. The Charolaise and Nivernaise cattle are compact aid tymmetrica!. and evidentiy have good feeding properties, and their flesh, I am told, is of excellent quality. The show of Breton cattle is very here, and consists of numbers of beautiful little cows, black and white, much resembling some of the small breeds of Wales. Among the short homs may be seen a number oi what even in Eugland would be called good animals, and the same remark applies to Ayrshires. The Jutch breed, consisting of black and white, so admirably adapted to dairy purposes, are well represented. The Swiss breed, mostly of a dun color, appear to possess many good points; some of the bulls are of large size. The Emperor's cattle from the Imperial farms in the neighbourhood of Paris, occupied a distinct place; consisting of some good specimens of Shorthorms, and also, as far as I can judge, of Bretons, Normans, Swiss, \&c.

The number of prizes awarded to horned
catle is 400 ; amomating in the aggrecate: upwards of E6,000 sterling. Pesides the monc: eacls first prize has approprimed to it a hi.. Medal; the second a Silver, and the third: Bronze one.

It is agreed on all hands that France is m: ing considerabie prorress in she p farmines, b: in long and shot wools. The number of enti: in this department is .46 ; and the totai amw of sheep is not tar short of 1:300. In Fra'. wool is the prineipal olject sonath for, whir. England the carase is regarded as of primat: importance, and ic will ustaily exeed in wei_: that of Fratice as to two une. The Meris: and Sazms are largely bred in Framer, :: yied a fine, valualle wool: and it is estimats that at present onefourth at least of ah at sheep kept in this country consists of Merin: cither pure or mixed. [ learnt from selias) soneces that of late years the fiench have ma aged to increase the weight of the carcass nit. out inguriously antecting the quality of the fiet: which of course laas leen proportionately: creased in weight. The entrics of the is French Merino mamber 1.s7, white the crus: amount to no less than $1 . f$. Sone 30 ente of other native breeds are present, somewhich appear inkerior, though irom want patical knowledge respecting them, I can in: but a very imperfect judgment. The fotis. breeds are almost entirely Enslish. In Iciox ters there are 2.) entries, with only at solita specimen or two of Cotswoids and Lineoin The shon wouls consist mainly of Downs: nearly the whole of the cross breeds were : by Euglish rams. Although the class of sk is in many respects positively foud there as mimber of animals decidedly inferior, $w^{\text {2 }}$ shoud not have fomd a pace in a nation show; a remark that will apply to all the of departments of live stock. I have seen bex specimens of the Leicesters at our Canai Provincial Shows; and the Downs will noti pane with such flocks as Jomas Webb's,! Rigden's, the Duke of Richmond's, \&c. It evident, however, that the French are now: perinenting in regard to sheep in an eart and enlightened spirit, and that this departw of husbandry is rapidly improving in that country and climate.

The Pigs are not numerous, on'y 240 entri -but the qnality is decidrdls good. Only lelong to the French breeds, some few of

Nutnash and Ardennts afpar to porsess some Guabe properties, 1 ut the majuity ate indifer eat. The Enolish beeds have redeemed this deforthent of the Lahitition from decided in feriority.
The foats and rablits de rexedly attatat at irntion, and the show of ? ? unltry, incluling
 momtint to upwark of vol cages, is a decided acene. The dry sharat ter of the dimate and the great demand for eqse are favourable to "wultry 1 eeping; and the ramerous specimens of Cuchins. Spanish, Bramahpootas, together bith everal native breds, impart a high chaater to this departmeat, which seems almost $\rightarrow$ attractive to gentlemen a to ladics.
I have almost forgotten the Horses, which matitate so prominent a fature of the exAhtion. Till recent! this usc ful animal, I unertand. was not almitted into the French bows. On this occation the hoses amount to early a thousand, cumpising all the distimetive reeds of the differnt Provinces of the country. the way in which the aminals are housed and mon is admirable. securing the most perfect :ranliness and safety, and affording visitors the mplest opportunitice of observation. The fre inms offered in this class amomet to upwards f $£$ Feb hreed that possess great merit, and a good lection for draught, the carriage, or the sade. rumbld very readily be made. A special class provided for mules and asses, with premiums the amount of $£ 300$; some of the males of e hater are of extraordinary size, and comand high or rather fabulous prices. If I am rrectly informed some of these stallions will th from one to three hundred pounds each; of ase rhiefly employed for the breeding of ules.
The Implement department is very extensive, mprising about 4,000 entries. Some of the 1 French ploughs and implewents are really riosities, and belong rather to the history of ricultural mechanics than to the great adnees that have been made in modern times. agricultural machinery France is yet far beid: her best tools and implements bein, in a at degree mere copies of English and Amer$n$ inventions. But no one could examine this nense collection without perceiving that a sh impulse has recently been given in the ditinn of improvement, and the unwieldy
nouden plughts of the past, are leggimning to make place fur lighter and far mure effective implements, chienly constituted of iron. The very small fams, honever, intu which the country is cut up, must continue to operate agaimst the introductiva of anachinery on an extensive scale.

I must here cease for the pesent. The hurry and huise incident to these oecasions render it difficult for one to collect and communicate on fryer his thourhts. I may have vecasion to resent to matters comected with this country and exthibition in my next.
G. 13.

## Pleuro-Pneumonia.

It a muteing of the Executive Committee of the New Youh State Agricultural Society, held on the 2lst June list, Col. B. P. Johnson, Secretary, read a report of two visits he had made m the begiming of the month to Massachusetts (in the last of which he was accompanied by L. H. Theher, Theasurer, and Professor Porter, Chemist to the Society), for the purpose of inquiring fully intu all the facts connected with the cattle distatse there frevailing, and to ascertain as far as practicable, the best probable means of arrestins it. After glameing at the facts connected with the origin and progress of the present outbreak of the disease, which have been given pretty fully in late numbers of this journal, the repo:t proceeds to recommend isolation of the diseased cattle, as a means of repelling the distemper, and expresses the opinion that with this means at hand there is no great occasion for the extensive panic which has prevailed on the subject. The report recommends that cvery precaution shall be taken to prevent the introduction of cattle from diseased localities into the State, and alsu expresses the belief that the means taken to repress the disease in Hassachusetts will prevent its progress west of the Connecticut River in that State. Should this turn out to be the case we shall have much cause for thankfulness in this province, lutin the mean time it is impurtant that we should become fully acquainted with all the facts relating to the disease, so as to be prepared to act when necessary. The report says:-

From all we could lean we were led to believe, that if in the commencement or first appearance of the disease, the cattle affected and
thove cxpoed are antirely separaled from others, and remoin so, whier proper treatment, in chen, well wontiaterl stables. be in pature. unth all sym; the of the disease ate eredtated. or the animals slauthtered and harim, that thr disease may he arre- fed, as it has freen frequentir in Engiand, Abotralia, Europe, and m this c. muntry.
 tain circumstances infections, seems from the evidence to bre establithed. Whe have seen no evidence that dhe disease is popatated in any war hut by centasion or interdion. Thate are. however, thoe who heriene difenenty: lat in Sasachusetts, where the distast has beron most prevalent, we think the opinion in meary mivensal, that the disease is coatariots.

Admittin: that isohtion of the intected cathle whil stop the sp: ad wi the derase it reems probain', (that, it the Masachusett lat, an
 they will he.) the disease wal tot bereater rows the Comuectient tiver. Sis far as wo ate ahbe to
 tion Commissiones, of any amal diseaverl pas. ing west of the Connreticut River in Messistchuselfs. We hope this may prove to be so, as it greaty lessens the probainity of the disease reaching our State from that diection.

After the reading of the leport, and aten consideration of the facts embodied in it, the following resolutions were adopted by the hoard:

Whereas, An annecensary atarm is beieved at present to prevail in rehaion to the probable - spread of the l'euro-Pneumonianow existing in Massachusetts: and whereas. , ther mider and muse comon conatamts ane tikely to be mis taken for it : and whereas, the sympuns of the dissase are aot only distinctly marked, bat rery phanly pointed ont in the heport received from the Committee of the society, who have recently visited the infected districts; therefore
I. Resolved, that in view of the highly contarious character of the Plemrolpacumonia, the chief and jerhaps th. only safety ior the tamer in case of suspicion, lies in the isolation of h : cattle as completely as possible from all contact with each other and with those of his neighbors.
II. That he the adontion of this course there are within the reach ot every farmer, the means of restraining the Pleuro-Pnemonia should it sppear within the limits of his own herd: and that, for the information of the larmers of this State in regand th the disease. the Report be printed for gemeral cisculation.

IIf.' That the President and Secretary be a committee to desiznate one or more persons practically conversant with the Plearo-Pneumonia, who may be consulted in case of suspicion in any part of the State, at the expense of the parties applying for such assistance, to dispel the suspicion at once if it proves to be mifounded, and to recommend the proper precautions i
and remedies if any case of the disease in gres. tion should actually he foum to cexist.
11. That we wamly apreciate the di-inteexted cfforts mate by the State of Tassachant: to prevent the catemion of this disease to ather States: and that the thanh of he Now Jor' State Abreuhural Society are hereby remorn. to the authomise of that commom-weahth, ar. that a con of these resolutions lice addresion ins the Secretaty to has Exelloney the Gowerure Maxachenetis.

## The Turkish Bath as a Cure ior Iung Disease in Cattle.

We cone: from the Irish Farmers Guatlt the following extacts from the report of a cole mitite apowinted iccenty by the Royal Agrice
 into the atility of the Turkioh Jath in cases e: c:athe distem! r. We notieed his suljeet hices in our last, and comsibler it of sulficient intere: and impontance, particular? in view of the pre valence of lleuro-Pucumonia in the adjoman: States, to deserve some further spate in or cohmms. The mode of treatment adopted: quite novel, and appears to be successtal wit other amimats, as well as cattle, and for oble forms of diseatse then lung distemper. Wea: of opinion however that some further experiens is rentaced, to test the benelits of the veatme: satisfactorily to the public. We shela looks furthe: reports on the subject. The fo!!owirs are the extracts from the report in the Gazett
"On the moming of Frilay, the lath ins: ne proceeded at an emply hour to Si. Am: Blarmey, by appointment with Docto: barte who received us rery hindy, and spared 5 pains or tronble to piace us in poseession of ar detai's that we considered calculatell to the lizht on the sulject of our ingriry. Liter havir conducted us through the portion of the esta lishment appopiated to the usc of his mums otis patients, and brielly explaned to us $t$ princi, ie and construction of the hath as us for the human subject, we proceeded to viewt cattle bath, constructed in a range of buildic in his farm-yad, which we foumd to consis: two apartments, each about 15 feet spua opening one into the other, the inace one bei: the hot room or bath, and the onter a cools room, where cold or tepid water can be thro over the auimal atter coming out of the? room, as will be presently more fully exphain The heating process applied to the inner re: is very simple, and is nothing more than i: use in every hothouse; a small furnace be iplaced at the rear of the building, and the 1
carried round three sides of the room by a b

Aae care being taken to keep the flue raised uff the rround by the use of large tiles bridged on l,rick, so that the air of the apartment circulates ownd the the, whereby a considerable sasing of tuel is thected. The walls of this apartment api studded in the usual way, about an inch of Ear sace intereming betweon the laths and the wate: wall, wherely the radiation of heat is revented and fuel still firther economised. $A$ then rail, about :3! feet high, ruming roum the int rive furtion of the apartment, topresent the a dimals mbling arainst or injurine the flue, comphes the aramzemeats. There wore no cattic or other anmals under treament ia the dar of our visit : lat uur attention wat diann the fohomins recent casts of diseare, all oi which had breen suceesstully treated with the hath, and without the use of any meticine whatיxt
Tw, dairy cows in full milk, ablout thece moths ealvel, had been attacked with lemy listem:- $:$, one on the 27 th and the other on the s9tin of May last; neither were put under :eatment until umistakable sipas of distemper had manifested themences, in the :apid deying up of the ailk and subie puent quick respiration. The use of the hath (two hours at a time) wat modred, at firsi three times, and when urent senponts were got under, twice a day; and unde: this treatment, at the end of the third day. a maitest improvement in the state of each was Lie resuit, and at the end of the seventh or xizhin day the further use of the hath was consdered nunceressary ; and from this feriod the aik., which had a!l hut entirely disappeated harint the riolence of the attack, rapidly rearnol: and at the time of our visit, b, ing the thath 19th days respectively from the date f the tirst atatack, we were assured by the man tho restanly milked them that they were loth a puite as soorl milk as they had leen previous o theis being attached, and we had no difieculty a erediung this statement, as it would have been npossiule to distinguish cither, from any one the 40 cows with which they were grazine, hether from the appearance of the udder or reir general healthy character.
We had also pointed out to us the sererai cows at wire treated successfully duriar the last inter and early spring for distemper in the bath, nd they were all, without exception, in pe: fect tahth and stated by the herd to be in as good abtit for the dairy as they had ever been prewhit. The diseased animads are not separated wh the others. nor does any particular atteran io, or change of diet appear necessary.
We nost proceeded to view a bath that hats en recently erected, under the directions of r. Farter, by Mr. St. John Jeflelies, of Bhas, and at which we were infurmed we should a spreral of his cattle under tocatinent. The uation for this bath has leen well selected in retired paddock of two or three acres, well lind in, at a convenient distance fiom the myard. The bath differs in no essential 1 art
fiom the one already de cribed. excepting that the fire is placed in the outer, or couline, room, and orer it is phaced a lareo luabro, liy which mean. varions atiches of attie tow can be prepared and a cunstant suphly oi hot water kept, withot ans whlitins.a' ...t ther fuel. The

 tranat of his, namel Forent, hiner hear.

Xon. I ad 2 were well herel dairy cons that had beth onis wher tocatment two or thee days. No. 1. a man cow, wase itruthy suffering severely fiom the atater, carried he: head down, mopol hadly, had a quit'. datt on her breath$\mathrm{in}_{\mathrm{r}}$, and :- shon coush. No. 2 a roan cow,
 not so sermety as No. 1.

So. B, the propaty of Mr. loucot, whe likewis. under thatment for inet three days, and was much :chnced in adpearance, and cond not les said t, !e ia a letter way than her two compomions. The ahose thre cows were at large in the paidncl: and, atter some tine we noticed the marks of weent bleedime on Nos. I and 2 , and on yuestionim, the man ia chate, he infurmed tis that both had been bed at the farmyad presions to lein_sent to him for tratment, fore no hetter le:zon, as far as l.e knew, than to see whether it wouk be of any service It is scareely neressary to, say that this treatment was very injularim, and howior harter stated that it was contrely comtary to has uage or advice in such casro, and that it mast remler their recovery slow sad tedions.

We next weat to the hath and found two cows in it, one that we shail call No. \&, in the outer or coolis wem. just ather havin: hat several buck to of water ilrown oterher on coming out of the warm ronm, and another. No. $\dot{\text { a }}$, was still in the hot rocin. Su. \& was one of those tedions, uncertain cases of distemper that every one who has sufiered math from it among their cattle is familiar with. Ataer the violence of the attack is over, the aumal seems to stand still; there are no ureent symptoms, but no recovery. The: become much wasted in condition, a sho: hard coush remains, and you ieel uncertain whether they will live or die, and would almost preter the latter, for any value they serm likeiy to prove. This cow had been fie: wer two months mider treatment, and for a lons time with little or no percentible improvement till about a week previons to our visit, when a cepious thechare of thick matter commenced from tie nostrits, which the bath seemed to chcuage, and when we saw her there was an appa:atce of a considerable quantity having been atecenth discharged; sle was still in very low contition, but the man in charge described her as mach improted since the discharge had commenced, and stated that they had had even Wuse cases that had entitely recovered under the same tieatment.

On Xiv. : beins thand unt, we went into the hut ruom tusee iu. $\bar{j}$ in the bath. We were
intormed she had been about an hour and $\Omega$ half in, bad been eight days under treatment, and as we were able subsequently to satisfy ourselves, had scarcely a trace of disease about her, and the next day was to be returned to the hetd cured. She seemed quite to enjoy her position, the perspiration was rolling off her frecly, and her breathine was slightly puickened. She carried her head erect, her eyes clear and healthy, and when she was removed to the outer room to get her douche bath, no one could mistake the feeling of refreshment nud pleasure that the dashing of each successive bucket of water over her spemed to give, and when she had been sligbtly rubbed down she was turned out to graze, the dey being fine and warm. but when otherwise there is a shed close by into which the animals are turned after leaving the bath, to let them further cool and dry before heing allowed out.

The last case, No. b, was a fine cow that had been about a week under tre: tment, but had been neglected for some time before being brought to the bath, aud was quite in a hopeless state, breathing hard and in pain, and on examination we found that she was suffering from a complation of diseases other than lung distemper, as we ascertained that the air was circulating freely through both lungs, and we further ascertained that one of her most urgent symptoms, constipation, had been for two or three days entirely unattended to.

We next proceeded to the farm of Mr. Forest, one of whose cows we had seen under treatment at the Blarney bath, and for whom Doctor Barter had last winier put up in the end of a small outhouse a simple bath, which had cost him six pounds. This bath is similar in construction to the others we have described, but too small and faulty in its ventilation; for these reasons, since Mr. Jefferies' bath has been opened, he prefers, with his landlord's permission, sending any cows he may have in distemper, of which he seems to be never quite free, to the Blarney bath. Here we were shown two cous which, by all the persons who had seen them early last spring, are considered to illustrate the extraordinary curative power of the bath begond any of which we have yet spoken. They were described to us to have been in a far worse state for a considerable time than the cow No. 4 mentioned in our description of Mr. Jefferies' bath. We saw both grazing with the rest of the dairy stock in full milk; one was in perhaps the best condition of any cow in the field (about 2.5 in number) and the other a heifer that had had her first calf at two jears old, and was, in consequence (independently of her severe ordeal of last winter) in low condition, but healthy, with a clear eye and a smooth coat.

We next proceeded to Mount Desert, the residence of Nicholas Dunscombe, Esr., who this year holds the office of high sheriff of the county. Here we were shown a very elegantly constructed bath, which he and his whole family use
constantly, and attached to it a box or stall heated by a flue carried from the ndjoining bath, in whel he is in the habit of treating any of his horses in sickness as well as those he wishes to improve in condition or general health. There has been a good deal of distemper eving among horses in the district for sume time past, and he mformed us he had treated several in the course of the last spring with the bath alone, with en. tire success. Une of his carriage horses had been attacked rery severely about four or five days previously, and when we arrived is actaally in the bath; the door was opened or us to see him, and we found him, as in the case of the cow at Mr. Jefferies', with the perspiration rolling off hm, and evident marks about his nostrils and thront of the violence of the attackLut the groom staied that for the previous two days he had been on the mend, and expected that two or three more days of the bath would perfect his cure.

Mr. Dunscombe further mentioned to us the case of a favourite setter dog that a short time hefore had got a bad attack of distemper, ard with it a lameness in the shoulder, for whichb: could not account. He treated hin with the bath, and after the third day a surfeit of boils broke out under the shoulder and on other parts of his body, and he rapidly got better, and in ten days was perfectly well.
One circumstance is wot thy of remark, whid applies to all the animals treated in the bath and testified to by the men in charge of the fous. different baths we were shown, namely, the eri dent pleasurable recullection the bath seemst leave with them; all the different animals, bo: ses, dogs, cattle, and pigs going of their om accord to the door of the bath, and dogs partico larly indicating their anxiety by waiting at tt: door whining till it is opened, and then rumin: in.

This finished our inspection, and we now be: to submit to your council the conclusions: which we have arrived from the above fatt and the information we were able to obtain: the course of our inquiries.

First, the proportion of deaths to recoven: in the treatment of cattle distemper with th Turkish bath does not appear to exceed onei ten, while the proportion that has been hither usual under other forms of treatment lous vari from one death in 3 to $l$ in 4 of the cattle tacked.

Secondly, That the constitution is not it paired by the treatment with the bath as it ist any of the other systems with which we are. present acquainted; and that this fact is partir larly illustrated by the rapidity with which, every case, the milk almost immediately retur. on the animal being relieved from the disease

Thirdly, That in the treatment of several the well Lnown serious diseases of the infei. animals, its use has been attended with the m favourable results, and particularly in all infs matory diseases of the internal orgaus.
I. eouclusion, while we are far from thinking that a sulyert of such rast importance could be satisfactorily investigated in the sery limited time we were able to devote to it, we nevertheless feel that we have scen and heard quite enough to warrant us in commending the subject to the calm and serinus investigation of these most vitally interested in the subject; und as a faveurable opportunity will oce're in the course of the next month, when the ainual show of our society is to he held in Cork, within a few miles only of the spot where we have been witness to the results above described, we would strongly urge all parties interested to go and see, and judge for themselves.
We would also suggest to your council that much public interest and curiosity would be gratified by their accepting the offer some time sure made by Dr. Barter, to put up a bath in the show yard at Cork and exhibit the worhing and construction of it, and that the courcil do offer a sum of $£ 20$ to Dr. Barter to defray a portion of the expense of so doing, and we would further suggest that Dr. Barter should be requested bj your council to deliver on the mornfing of the first day of the show, before the public are admitted into the show-yard, a popalar lecture on the use of the Turkish bath in the rreatment of the diseases of the inferior animals.

## Lois Weeảon System of Wheat Culture.

We referred to the ..ev. Mr. Smith's system f cultivating what at Lois Weedon, Norhamptonshire, England, in our last. The folowing concise sketch of his uperrations is from n article on the "Principles of Manuring," in late number of the London Farmers' Magaine :-
"As a means of illustrating both the princiles and practical bearings of this celebrated patroversy, it is impossible to select a mure posite, instructive, or important instance than at presonted by the well known arricultural jumph in successive and un-manured wheatfowing ackieved by the Rev. Samuel Smith, at ois Weedon. The manner of his yearly cultiation is as follows: At the usual time in tumu, the seed is drilled in stripa, which (consting, as each set does, of three rows ten ches apart) occupy thirty inches in width, and treen strip and strip there is left an unseeded ace of similar dimensions. Diring the growth the plants in the ensuing season, the rows reive sedulous attention in hand-hoeing; while, the same time, the interspace between strip d strip undergoes a constant succession of rse-hoeing and other fallow operations. Next ar these fallowed spaces bear the strips, aud estohble of the preceding year's crop is plowed and summer-fallowed in like manner. In one
point of view, there is a perfectanalogy between this expedient and a practice not uncommon on the heavy land of Essex, in which is pursued field by field the simple alternatica of corn one year and bare failow the next, to be again succeeded by corn, and so on for ever; but in varivus circumstances of detail, into which we shall not hen uter, the Lois Weedon method' pos-n sesses a superiority very favorable to both. liealthy and prolific cereal productiveness. Pr. Sunith's experience in this mode of managementdates back to the year 1846 . The area of hijes operations is comparatively small, being only five acres. The suil is above average quality, and consists of a staple of good wheat land, icsting on wholesome clay, and naturally dry. The itmplement used for inserting the soil is the spade, or fork, in place of the plow. The average yearly produce for twelve years, ending with crop 1859, has been upwards of thirty-six bushels yer acre of prime marketable wheat; and the expenses of tillage, rent, \&c., are as follows :

| Digying and cleaning | $\begin{array}{lll} f & \text { s. } & \text { d. } \\ 1 & 14 & 0 \end{array}$ |
| :---: | :---: |
| Horse-hoeing, three tim | 060 |
| Plowing. | 40 |
| Hocing and hand-weeding | 050 |
| Three rollings with crusuers at seedtime and at ppring. | 030 |
| Two pecks of seed. . . . . . . . . . . . . | 026 |
| Dibbling. | 05 |
| Bird-keeping. | 04 |
| Earthing-up wheat. | 03 |
| Reaning, \&c., thrashing, and marketing. | 1130 |
| Rent $£ 2$, rates and taxes 4s. 3d... | 243 |
| Total yearly expenses. | 3 |

Value of thirty-six bushels of wheat at an average price of 6 s .6 d . per
bushel................................ 1114
Deduct expenses as above............ 7 i 9
Annual profit per acre bcsides the value of the straw. .$£ 410 \quad 3$
Oue other element of Mr. Smith's practice still remains to be stated, (and on account of its paramount importance it has been reserved for special notice, ) namely this, that in each summer fallowing of the interspaces a method of deep cultivation is pursued, by which the upper and under stata of the staple are stirred, and inverted to the depth of ten or eleven inches; and if it be asked upon what ge ounds was this trenchant and very thorough illage resurted to, the reply is, because theory and practice alike assured the experimentalist-list, that usually in the soil, and ever in the air, there is abuadance of nutriment for cereal crops, in proportion as the mineral and atmospheric elements are brought into mutual reaction within the pores of the soil, by perfect cultivation; zend hence, 2 dly , that by means of perfect tillage,
the aid of adventitious fertilizing substances is not indspensable to the profitable growth of corn.

In point of agricultural importance, no industrial circumstance lelonging to the present century is more entitled to deep consideration, than this brilliant, get sound instance of tentatice lusbandry; nevertheless in order to appreciate its true practical value, it is necessary to hear in mind, that as respects the happy combination of operative details of which it is made ap, it consists of no priuciple or exproment in cultivation which had nut been known and pacticed before. As an example of cereal productiveness, procured without the intervention of attle crops. what other waltermate syotem them this prevailed in England, when, prior to the jut:oduction of roots and clover in rotation, she not only fed her own population with corn, but exported it largely to foreign parts? Nay, more-what other than this, is the still existing poliey an the cereal countries of continental Enrope, which now so largely provide Eagland with breadstutis. As for the interculture of the Lois Weedon method, admirable and efficient as the expedient is, it can be reqarded simply as an adaptation to corn tillage of that method of drill husbandry hitherto confined in general practice to the fallow crops only; while finally, the deep, working, if not so generally prevalent as it ought to be, has long existed in many of the best-ftumed dis. tricts of the island.

Now, the moral we wish to point out, in the foregoing statement, is this-lhat, from the case where, under sumy skies, and on a rich soil, the lazy husbandman has only to scratch a little covering of carth over his corn seed to produce an abundant crop, up to the elaborate processes of Lois Weedon experience, there is every variety and degree of cuidence to show that wheat or any other kind of grain can profitably be raised by the power of tillage alone, and that the use of mamures, whether obtained from the cattle crois of modem rotation husbandry, or from external rescurces, is not indispensably necessary to profitable cereal husbandry. Nay; more-from the practice of all nations it is deducible, that ia proportion (within certain bounds) to the greater depth to which at soil is stirred, and to the perfect amnal tillage it receives, the produce of that soil will be more abundant.

## The Provincial Exhibition.

We take the following detailed deseription of the "Crystal Palace," and of the other works, now in progress of completion for the exhibition, from the Ifamilton Banncr. The description accompanied an engraving of the Palace, which appeared in that paper:-
"The Palace is being erected on the site se lected by the City Council, which fronts on Iing Street West, and extends to York Street. It
commands a splendid riew of the citr, the bay, part of Lake Ontario, and of the surroundin: country. Three is probably no site in the Prosince finer than that chosen for the Ifamilton Cisstal Palace. The building will le of nood and glass, upon a permanent stone fuandation. The cutite area of the building is about 36,000 feet. The ground plan is octagonal in fum, having fint trancepts. The buiding will be two stories in height; the first story 16 feet in the clear, and the second lo feet to the line of the cancs, with an arched roof of light appearance. At the intersection of the cross, is an octagoma' space 76 feet in diameter, and 44 feet to the lins of the roof, this portion is also arcled in a mos: substautial mamer : the roof will be surmounted with a cupola. The extreme height fiom the ground floor to the top of the dome is 100 feet. A flar staff 25 feet is raised above the dome. The length of the building is 171 feet, by at feet in widh, and contains about $2-1,000$ feet on the ground foor. There are four gallerics ${ }^{\text {ji }}$ feet wide by about 64 feet long, with a corridor ruming round the centre octagon, comecting all the galleries; these galleries contain about 12,000 square feet; four spacious stairways 'ead from the ground floor to the gallerits. The diagonals which form the octagon are ouly to be carried up one story, with flat tin roofs-ac cess to which can be obtained from the ralleries affording a five place for a promenade, ands beautiful view of the city and bay. One of the gallerics will be fitted up especially for the er hibition of fine arts-three sides of which arete be close-boarded, and the light to be admittes: through the centre of the root by a lantern-ligh extending the whole length, the glass to l : frosted, or obscured in order to difiuse a mellos light. The whole of the glass throughout th building is to be frosted. All the windows: the building are to have semi-circular head with cut trusses under the same. The whole the wood work, in the exterior as well as i: terior, is to be planed or wrought, together wit the cornices; these cornices are to be supporte at intervals with fine cut brackets. The buildre is to be painted outside with a warm light coloor stone tint, in oil, and it is intended to pain the interior in fresco. The dome is to be of ered with tin, which will render the buildr pieturesque, and be seen a distance of sever miles around. The gallery flooring is to t dressed and laid open, and the under side of galleries lined with dressed boarding, to preve the dust rising.

The building was designed by; and is bei erected mader the superintendence of Mr. A. Hills, architect, of this city, The contract for the erection of the building are Mr. J. Ts lor, for mason work; Messrs. R. Gordons W. \& IR. Chisholm, for the wood work: George Smith, for the timer's work. and Mes Fitzpatrick \& Brother, the paintiur and glaze The cost of the building will be about sis, It is to be entirely completed by the fint September next.

In addition to the Palace, the Exhibition Grounds will be attractive of themselves. The space occupied is about 20 acres. The whole is enclosed by a cluse board fence, $S$ feet high, with large entrance gates, one at the comer of King and Locomotive streets; and another on Locomotise, fronting Little Main street. The wfices for the use of the respective Committees are at the extreme North East corncr of the gromuds. Here the principal Ticket Office will be lucated, and several sma!; gates will give admission to the grounds. The King Stree: frout is cutinely uccupied with stabliner, all heing separate stalls lant two, which are doulle. There is sufficient room for 100 horses, with half-doors to admit o! ventiation, and rive visitors a chance of seeins the horses in their stalls. The stahbes ane sufficiently roomy and ainy, besides having a good shingled roof and fiooring of three inch phank. The catt!e sheds will hold about $2 \pi, 0$, each sta!! holding three, and being secured with haus. Tha sheep and pigheusare non in course of erection at the west side of the rivulds; they will be covered user with a board rove. The building for the reception of mamfactures in motals, machiney, de., has not been commened yet, nor the caclustres for the poultro. When completed, the accomodation will be futud sufficiently ample, and the arrangements all that cond be desired. It will ectthinly le an ornament to our city, and the grumals will soon become one of our must falounte resorts.

## Patents of Invention.

Fivin a list of Patents granted for a period pf fumten years, in the Canada Gazette of fuly 14, we select the following as relating to gricaltural operations:-
Sumact. Tech, of the Town of Sherlnooke, a the District of St. Francis, Iron Foumder, for Anew and improved castiron Ploughshare ith Steel point,"-(Dated 12th Jamuary, 1 E60.)
Chamies Lohatio Wixtaols, of the Townaif) of Brantford, in the County of Brant, fachinist and Iron Founder, for ${ }^{\cdot .}$ An improveent in the application of Ste:m Power and in te manner of making such application for the mose of moving and working Steam Ploughs, (tam Fire Engines, dic., \&E..":(Dated 27th muary, 1860.)
Hegin Mchanes, of Lowville, Township of dson, County of Inalton, Founder, for ${ }^{\prime}$ an proved Straw Cutter,"-(Dated 9th February, 60.)

Ghesen Hustington, of the Township of prth Norwich, in the County of Osford, Iron under, for "A certain Gang Plough, Cultifor and Sowing Machine combined, $:=$ (Dated th February, is60.)
Jons Y. Lambert, of the Township of Ful-
larton, in the County of Perth, Carpenter, for "An improved washing Machine,"-(Dated 1Sth Febu uary, 1860.)

Andat." Minemand, of the City of Quebec. Brass Finisher, for " A iertically rotating and Stationary Break Chan,"-(Dated 24 hh Fel). ruary, le60.)

Jants Chmasus, of the Village of Oshawa, in the Cumnty of O:atario, Wood Turner, for - An impored Washing Machine, ${ }^{-}$-(I)ated 27 th lebruary, 1s60.)

Scmal. Thes, uf the Tuma of Sherbrooke, Iron Eumder, fu، ' $A$ new and useful manufacture, stgled, Tuck's Cast Iron Sugar Boiler,"(Dated 2nd March, 1560.)

Thomas A. Jebib, of the Township of West Guillimbuy, in the County of Simeoc, Lawyer, for . - An impuovel Chum,"-(Dated Th March, 1860.)

Thumas Scont, of Nenibureh, in the Comby of Addington, Blachsmith, for "A new Calti-vator,"-(Dated 7th March, Is60.)
Anaon, Gane, of the Township, of Burford, in the Cunnty of Batut, Yeoman, for "An impued Churn,"-(Dated 1:3th Mareh, 1s60.)

Davi, lisk, of the Village of Newmarket, in the County of York, Carpenter, for "A Blower for cleauing Grain, "-(Dated 13th March, 1860.)

Mathew Mexir, of the Township of Campton, Cabinet-Maker, fu: "A useful manufacture styled Hearys Cuncave Sugar Boiler,"(Dated l9th March, 1860.)

Whman Fhaser Cochrnse, of the Village of Port Bruce, in the County of Elgin, Engineer and Miltwright, for "An Atmospheric Flour Bolting Chest,"一(Dated 27 th March, 1860.)

Chares Ilulmes, of the Tuwn of St. Catharines, in the County of Lincoln, Miller, for "An improved Grain Separator,"-Dated 27th March, 1S60.)

Johs Brokensmme, of Rowmanville, in the Cumty of Turham, Pump, Maker, for " $A$ duuble action wooden Suction Pump,"-(Dated 27th March, 1860.)

Michati. Wans, of the Town of Perth, in the County of Lanah, Laborer, for "An improved Churn,"-(Dated 2ith March, 1860.)
Samea. V. Perkr, of the Township of Emestown, in the Comity of Addington, Mechanic for" A new and improved Machine for Thrashiny, Sepatating and Cleaning Grain, (Dated 2 ${ }^{\text {(ith }}$ March, 1960 .)

Whiman Hobrox; of the Township of Harwich, in the County of lient, Laborer, for "An improved Mould-13oard for Ploughs;"-(Dated 10th April, 1560 .)

Sameri. Menberr, of the Town of Prescott, in the County of Grenville, lounder, for "An Air Pump dash Chum,'"-(Dated 19th April, 1860.)

Josem Patcmig, of the City of Hamilton, in the County of Wentworth, Brakesman, for
"A new article styled "Patching's Car Venti-lator,"-(Daked loth $\Lambda$ pril, 1s60.)

Thoms Thonpe, of the Town of Guelph, in the County of Wellington, Joiner, for" An Air tight out-lifting Spring Sash window,'(Dated 19th April, 1860 .)

Henry Fhratr, Junior, of the Village of Aurora, in the Comity of York, Carpenter, for "An improved Method of Oprening and Shutting Gates,"-(Dated 19th April, 1860.)

Whama Ifexry Mabe, of the Vilhage of Merrickville, in the Comnty of Gremville, Iron Founder, for "A new Method of constructing Ploughs,"-(Dated 19th April, 1s60.)

Josern Jessir Macnivosh, of the Township of Yonge, in the Comuty of Leeds, Miller, for "A Grain Separator, styled "Macintosh's Patent Tlue Grain Separator;'-(Dated 29th April, 1860.)

Romest Wahen Graver of the 'Yown of Brockrille, in the County of Leeds, Tin Smith, for "An improved Churn, styled "Grant's Excentric Double Dash Churn,"-(Dated 29th April, 1050)
Phimp Camy Var Brockins, of the Town of Brantford, in the County of Brant, Iron Founder, for "A combined Sced Drill Cultivator and Horse Hoe,"-(Dated 29 th April, 1860 .)

Joslan James, of the Township of Whitchurch, in the County of York, Machinist, for "A universal Joint Walkins beam for churns, and other Machinery::-(Dated 29th April, 1860.)

Joseph Mintard, of the Village of Newmarket, County of York. Cabinet Maker, for "A screw regulating Cheese Press,"-(Dated 11th May, 1~60.)
Mugir Sirm Campaeh., of the City of Toronto, County of York, Contractor, for "An improved Churn,"-(Dated 11th May, 1860.)
Horace A. Combs and Ashmas P. Comins, both of the Village of Ontario, County of Wentworth, Yeomen, for "An improved double acting Chum,"-(Dated llth May, 1s60.)
Jons C. Mr Dorsin, of the City of Torontu, County of York, Machinist, for "An Uctagoual Churn,"-(Dated 11th May, 1s60.)
Jons I. Srowwen, of the Township of Xarmouth, County of Elgin, Carpenter and Joiner, for "The Excelsior Churn,"-(Dated 29th May 1860.)

Johs Bervamd Robissos, of Drummondille, County of Wolland, Miller, and Joun Jago, of Mfulmur, County of Simeoc. Miilwright, for "Au article styled the Robinson and Jago im. proved method of Bolting Flour,'-(Dated 30 h May, 1560.)
Ayasson Hamme, of the Village of Beamsville, in the Cnumty of lincoln, Founder and Machinist, for "A combined Corn Sheller and Root Cutter,"-(Dated 30th May, 1s60.)

Joseph St. Germain, of the City of St. Hyacinthe, Maker of Agrienltural Instruments, for "A Balance Wheeled Horse Liake,"(Dated Ist June, 1860.)

## Adulteration of Guano.

The Jrish Farmer's Gazelle of July 7th pui. lishes a lengthy report of a case just disposed of at the Police Court in Dublin, showing it extensive frauds practised in the manufacture and sale of Artificial Mammes. There is hu: little sale yet for guano or other artificial manures, except gypsum, in this country, but this and similar exposures show the necessity es farmers making sure that they get the gemume article, when they do resort to manures of thie character ; which will doubtless soon be the cas: to a much greater extent than heretofore. Th.

## Gazette sas: :-

"This matter is one of the greatest importance to agricmiturists, and we believe our readers wia all rejoice when they learn that the Crown has stepped forward in this manner to protect the public against those who are engaged in the nefarious trade of compounding materins, whid they rend under the name of guano, and by means of which such enormous frauds have beet perpetrated. Too much praise camot be amar ded to the crown officers for the steadiness wit which they have prosecuted the inquiry durina the last two years. A great blow has bee struck against frauds, not only in the guar: trade, but also in other branches of busimes: and the prosecntion of this case will hare cause! dismay in the minds of more than the mert dealers "in yellow clay and oyster shells."

The particulars of the case give us the entire secrets of the trade. We have the parties er gaged in it as agents stating the prices at whit they sold "the stuff", namely, fitt lls. per ton altiough it would appear from the evidence ed one witness, that even this sum was not suf. cient at first to satisfy the rapacity of the cor pounders. Then we have a graphic descriptic: given hy more than one witness of the differes marls used, with the seasoning of "gypsus salt, and burned shells;" again, we have th evilence of the parties employed in the actus work, and what they did "when they watk to rise a smell;" next appear on the stage te very indiridmals who have been fortunate enous to find the Chincha Islands on their own farms then. agria, the active police officers descri? how they watched the progress of what one mit ness innocently terms "trying experimentsf. making manure ;" and finally we have the cru: ing evidence of Dr. Apjohn, who proves ts this very satisfactury "manare," snld as Per vian guano, and at the price of Pernvian guai which gave good cropy, "magnificeut crop was worth only f. 16s., instend of the $f_{14}$ il which was so very modestly clarged for it.
This prosecution has given us more than us: pleasure. Fue years past we have heen warni the tarmers of Irelanid that vast quantitios adulterated guanos were being annually s under the pretence of bring genuine, and have repeatedly urgel the necessity of ac. steps being taken to protect the poorer and 1
mecligent part of the community-those who were not in the habit, perhaps, of secing such warninge, although well able to pay for the medium through which they were conveyed, as wha as those who could not be expected to prosi in them. We have endeavored to impress upan all the propriety of having samples of the artificial mamures which they purchase analysed, frem whatsoever source such might le derived; and we have told farming societies that it was a part of their duty to protect their members, :and the districts which furmed the scene of their oprations, by having recourse to the add afforded thy the professional clemist. The case of the Crown $r$. Creaghs-forming only one out of the many which will be brought forward-shows hat our warnings were not mncalled for, and se trust will be a lesson inculcating caution ior the fiatue. As yet the case hos only reached its preliminary stage-an important stage, no doubt, hut still not the most important ; and considering the interests which are at stake, and the injury which has undoubtedly been committed on ice pullic at large, we trust we will nut be considered as interfering with the course of justice if we express a hope that, should the parties be ultimately convicted, they will be as severely lunished as the law of the land will allow.

## Uortespomirnce.

## Wine Culture in Canada.

Limurs of the Agrictiturist-With great $\therefore$ tasure I notice in your last issue sume comnurications on the subject of wine growins in anads. The subject is not altogether new to h: buality. Three years aro fuur or five burels of wine were grown from a single vine in ue season in the Township of Grimsby. The rape is a native, and the wine very much resemles port, so much so, that persons tasting it rr the first time frequently speak of the simirity. It is perfectly hardy and stands our adest winters without in the least destroying $s$ vitality. I obtained a vine six years ago last ring, it now covers some forty feet syuare of rllis and I think has at least twelve hundred usters of grapes. The clusters are about the ze of the Clintons. The wine sells in this cality for one dollar and three quarters per :Hon, and probably would bring more if we ted it, at all events it is worth four times as rch as the miserable stuff generally sold by rimerchants under the name of wine. We :end to show our wine at the Provincial Fair is fall, and hope the judges will publish their union of the satae. We have in this part of nada a number of the new native grapes, a nd representation of which will no doubt find eir way to the Provincial Fair this fall; and advise all who feel an interest in this import branch of our agriculture to keep their cyes de open, as they will be likely to see many prg in this department that will suspise them.
eliare open air grapes that will vie in size
and flavor with the far farmed black Hamburgh, and I think there is not the least reason to doubt but that we can grow wine in any quantity and of excellent quality. I have grapes that will measure to day over two inches in circumference to the single herry, and number over fifty berries to the cluster. I fear that I am trespassing too much on your time and patience, but if you think these few thoughts likely to benefit jour readers you are at liberty to publish them. If these remarks meet your approbation, I may give you some more of my notes on horticultural matters.

Jon. C. Iitmorn.
Beamsvile, C.W., July 23, 1860.
[We are much obliged to our correspondent for his interesting commumication, and hope that whers who are in possession of similar facts will let us have them.-DD.]

## Things Seen, Heard and Thought of.

Ebitors of the Agricumtmist, -I will recurd several things-first, what I have heard; secondly, what I have seen, and thirdly what I have thought. As to what I have heard. Mr. James Scrogic, of the Township of Binbrook, has made some 900 yards of underground drain, 250 yards of this passed through a low wet portion of his farm, where he had lost in part several crops of grain on account of the superfluity of surface water. IIe has reaped two crops since he made the drain; the first of these crups cunsisted of corn and potatoes and gave a splendid yield. He took the first prizes both un cum and potatues at the agricultural show of the four townships, viz: Barton, Glanford, Saltfleet and Binbruck. Last harsest he reaped from the same land a crop of barley which yielded 3 a -ushels to the acre. So much for underground drainage. Farmer Kemp, whose farm adjoins mine, informs me that he last year gathered 150 lushels of barley from two acres of land.

As to what I have secn. I have generally uldservec amoner all hinds of grain that few are pure. A mixture of linds seems by some means to take place. I sowed a year ago last fall what is called the blue-sten wheat, and last harvest I found that there were five varicties. Anong these was a wheat, with a stout straw of a rather rellow tinge, a fine medium sized head, thickly set with grain uith white chaff, and yielding more aluundantly than any of the other varicties in the ficld. I gathered a handful of it, and planted it in the garden, and had the midse let it alone it bid fair to bave given an extra yield. Miay we not often discover new varieties of a superior lind by thus going through the field and mahing a selection of the earliest and finest rarieties?

A word as to what I have thought. We have our agricultural shows, at which exhibitions of taste andskill and success in all the arts and
sciences, and handy works of man, are set forth in all their splendor, much to the, satisfaction, pleasure, and profit of the community. Then we have our plowing matches; and I have thought it would be wise for our county agricultural associations to get up a draining match, and that four handsome prizes be awarded to the men who shall dig the drain one humdred feet long, lay the pipe and fill it in, and do it the best and the quickest; that is to say, each man shall dir and lay the pipe 100 feet. As I have taken the writing of this for a yoon-spell I must now bring it to a close. Stemen Kisg.

Ryckman's Corners, July, 1860.

## Trial of Mowing Miachines.

Editon Agmemprostry.-As daly amounced, the trial of Mowing Machines under the direction of the West Durhan Agricultural Sncinty, came off in this place last week. There were seven machines at work.

After a thorough test, both as to mamer of cutting and lightness of draught, the Judyes were unamimous in awarding the first piven to H . A. Massey, Esq., and the second to Messrs. Patterson \& Brothers of Richmond Mill.

We can assure manufacturers, that if they want to dispose of their machines or bring them into notice, they should attend these matches. Farmess attend expressly to see them work, and make up their minds accordingly.

At the trial of lieapms which comes off some time next month, and ,i which due notice will be given, we expect io have a very large attendance. As has been before stated, it is not the amount of prize, for that is small, that has induced manufacturers and others to attend these trials and the socicty to hold them, but that, as many farmers in the county are yearly buying machines, it gives an opportunity for them to buy those which they may think, after a trial, will suit them best. A. A. MN.Acouros;

Newcastle, July 27, 1860.
Secretary.

## Increase of Noot Culture.

Editon Agncurverist.-In looking over the last number of the Agriculturist, in tirst article, "Hints for July," we observe you tahing nutiec of ML. Fleming selling orer 100 lmshels of Swede turnip seed, a great quantity certainly for him, and we thought probably it might be of some interest to you to kiow what quantity we have sold in this section. We enclose join our circular of our importations for this season; the quantities are copied from the invoices and are correct to a few pounds, and we are happy to say we are nearly sold out. We have every prospect here of a most abundant harvest, and we think we might compete with the best countics
in England and Scothand, for Mangels, Turaips and Carrots. Mumocir, Bros.
Bowmanville, July 2ir, 1860,
[We find from the circular above referred to that the Messrs. Murdoch had imported the large quantity of $8350 \mathrm{lb} s$. of the different sorts of Swede Tumip, 1250 hbs . of other kinds of zarnip. 2100 lbs . of Carrot, 1700 lbs . of Mangel, and 200 lhs . of hape seed. This statement shom: that the increase in root culture must be mud more general and extensive even than we had supposed, and affords a gratifying proof ew pecially, which we are glad to be able to chroni. cle, of the improvement taking place in the agrieulture of that section of the country--idid

## Anvirultural Iutelligence.

Fian Prining and Retring.-Flax, when sown early, will be fit for pulling by the middt or end of the mouth (July); it requires muct nicety to determine the time when it should be pulled. The firve is in the best state before tbe seed is quite ripe; if pulled too soon, thougb: the fibre is fine, it will be rendered mprobitable. by the great loss it suffers in scutching and hackling, and if pulled after the seeds get ripe the extra weight does not compensate for the coarseness of the fibre. The proper or mo: profitable time is, therefore, when the seed caf sules are changing from a green to a brownhue and the stalk yellowish for about two-thirds of its height from the gromed the flax should of caught by the puller just beneath the seed bolk by which all short stems will be left behind the handfuls should be laid across each otheri a slanting direction, so that the person who in ples may take them up without confusion. Th rippling should be performed at the same tine or go on simultameously with the pulling, as the flax carried to the water as soon as rippley Piver or soft water is the best for stecping; 18 thax, after being bound in sheaves, should placed in one layer, in regular rows, a lit sloped, the head of each row lying on the rod of that which preceded it, and covered close with thin, tough sods; as fermentation procef the flax will begin to rise, when addition weights should be laid on to keep it down; requires 10 or 12 days stecping; it should examined from time to time, ceery six hou after the fermentation subsides; try some stad of an average size, by breaking it across in it places, n!out six or cight inches apart: call the woody part, and if it pull freely out, leand the fibre behind, it is ready to take out of stey then place the bundles on their root ends, c ? together, to let them drain for about 24 how and spread it out evenly and thin, on a cle short pasture; turn it repeatedly with a about 8 feet long and $1 \frac{1}{2}$ inch thick, and in ab

Irow six to twelve days it will be fit for lifting, whea it way be tied up, in bundles, and if not soo: to be seutched it may be put in small, boose stacks. Drying hy fire is now exploded as iseinc pernicions and destructive to the fibre,
 the cin will make it seady for becatines and seationg.-Mrish Faimers Gazetle.
Wheis.- Heds, nu mater whether found in the telds or be the diteh or road sides. give the idea of nergect and slovenly habits, and are a disgrate to the name of famer: they impoverish the iand, and rob the crops of that food which, a the shape of mamure, oftcn custs the farmer barge sums; therely reducing the quamtity of prodece, and rendering the com crops ditticult to harrest ; for how often do we see the com in the sheaf perfectly sound, and fit to cany; bet camui from the quantity of undried, succulent reeds bound up with it he brought to the hargard: and every day after the com is fit for toring is a day of loss from exposure to the vind and wet and the ravages of birds and vernia, wad at esery handling it gets, the finest grain fa!!s to the ground, and is for ever lost. Therefoie, let the weeds be destroyed by hand10e, horse-hoe, scythe, and reaping-hook, using ach mplement where it is most appropriate beore the weeds tlower. By a little constant atention to these matters, the weeds, and the abow cexpended in their extirpation, will ammHy become less and less. The old adage of $\because$ one year's seeding saves seven years' weeding', hould never be lest sight of. Weeds make a reat addition to the mamure and compost heaps, then cut at the time of howering, and before hey nerfect their seeds; should the seeds be eart: sipe they should be burned: but the voner they are handpicked or cut, the better, stbey should be allowed to draw as little nourhment from the ground as possible.-Ib.

## govticultural.

## Memoranda for August.

Thl: is comparatively an easy month with the ardener. The planning and laying out grounds, wiag and planting, of spring and early sumei being concheded, his attention is mainly ditied to securing the proper growth, ripening od rathering of the veretables, fruits, de., wih he has succeeded in establishing, till the ore active operations of autumn commence.
The Kirches Gumex.- Is the ground is aied of early crops, some things may still be In to advantage, such as winter radish, early mips, and salads for fall use. Celery planted t month will require to be hoed occasionally, til rown of sulicient size for earthins, which doae with the assistance of boards, by laying
them along the rows, to support the leares while you are putting in the earth from the alleys, and removing them as you progress in the business. The earthing should never be done when the plants are wet, as this is art to make the celery risy, iout should be perfonmed gradually in fine weather as the phats progress in growth, repeatiars the earthing every two weeks; at which time care should be taken to ather up all the leaves neatly, and not to hary the hearts of the plants. Coley for wiater nee may be planted in the tienches as late as the middle of August, and if well watered and attendel to will produce good roots.

Early planted cauniflowers will now be coming into flower. As sum sis they show the flower, they should have a few of the leares turned down over it, to prewent it turning brown, which would injure the quality materially, andin order that the heads or pulps may be compact. As the value of cauliflower depends greatly upon the mamer in which it is cooked, the following directions from Bridgeman will not be out of place :-
${ }^{1}$ Canlillower, and also Brocoli, should be gathered while the pulp is close and perfect. After having trimmed off some of the outside leaves, let them be boiled in plenty of water seasoned with salt, taking care to skim it, and also to ease the cover of the pot so as not to confine the steam. Talie them up as soon as the forl will enter the stems easily, which will be in from ten to twenty minutes, according to their size and age: drain them so as to make then susceptible of absorbing a dut proportion of gravy, melted butter, \&c. This renders them a palatable and dainty dish.:"

Tine Fiower Gardia.-The work to be done this month will be very much the same as for the last, in regard to keeping the ground clean, tying up plants, \&c. The following directions from Buist's "Ameican Flower Garden Directory" on the budding of roses, are just in scason:-
Of Bemmeg on Noctimtion of Roses.According to what we have previously hinted in regard to having roses as standards, where such are desired, the month of July or August is a proper time for the operation of budding. The kinds to be taken for stocks should be of a strong, free growth; such as Manitta, Maiden's Blush, R. Canina, and frequently the French Eglantine are taken. Be provided with a proper budding-knife, which has a sharp, thin blade, adapted to prepare the bud, with a tapering ivory haft, made thin at the end, for raising the bark off the stock. For tyings, use
bass strings from Russian mats, which should be soaked in water to make then more pliable. The height of the stock or stem at which the bud is to be inserted, is to be determined by the intended destination of the tree (as it may be properly called.) Choose a smooth part of the stem, from ono to three years old. Having marked the place, prune away all the lateral shoots about and underneath it. With the knite directed horizontally, make an incision about half an inch long in the bark of the stock, cutting to the wood, but not deeper; then applying the point of the knife to the middle of this line, make a perpendicular incision under the first, extending from it between one and two inches. Having a healthy shoot of the growth of this year provided of the kind that is desired, begin at the lower end of this shoot, cut away all the leaves, leaving the footstalk of each. Being fixed on a promising bud, insert the knife about half an inch above the eye, slanting it downward, and about half through the shout. Draw it out about half an inch below the eye, so as to bring away the bud unimpaired with the bark, and part of the wood adhering to it; the wood now must be carefully detached from the bark. To do this, insert the point of the knife between the bark and wood at one end, and, holding the bark tenderlys strip of the woody part, which will readily part from the bark, if the shoot from which the piece is taken has been properly imbued with sap. Look at the inner rind of the separated hark, to see if that be entire; if there be a hole in it the cye of the bud has been pulled away with the wood, rendering the bud useless, which throw away; if there le no hole, return to the stock, and with the haft of the kmife gently raise the bark on each side of the perpendicular incision, opening the lips wide enough to admit the prepared slip with the cye. If the slip is longer than the upright incision in the stock, , $e$ duce the largest end. Stock and bud being ready, keep the latter in its natural position; introduce it between the bark and the wood of the stock, pushing it gently downwards until it reaches the Jottom of the perpendicular incision. Let the eye of the bud project through the cen. tre of the lips; lay the slip with the bud as smooth as possible, and press down the raised bark of the stock. The bud being deposited, bind that part of the stock moderately tight with bass, beginning a little below the incision, proceeding upward so as to keep the eye unoovered, finishing above the incision. In a month after the operation, examine whether the bud has nnited with the stock. If it has succeeded the bud will be full and fresh; if not, it will be brown and contracted. When it has taken, untic the bandage, that the bud may swell, and in a few days afterwards cut the head of the stock off about six inches above the inoculation, and prevent all shoots from growing by pinching them off. This will forward the bud, which will push and ripen wood this season; but it must be
carefully tied, as it grows, to the remsining hat of the stock. Some do not head the stock o til the following spring, thereby not encoura; ing the bud to grow, which, if winter sets : early, is the safest method.

Cond Vineraes.-Attend to thimning the fris in houses intended to furnish a late supply, ca see that the bunches are severely thimed, se: also that the crop left is not too heary in pr: portion to the strength of the vines. Whes the fruit is swelling be careful to maintain: moist state of the atmosphere, and give eren possible attention to the roots, keeping th border in a healthy state as to moisture, andi watering is found necessary, use good stro: manure water. Give abundance of air whe the fruit is coloring, and do not allow plantst pots to remain in the house to cause daw: which despite every care in ventilation, is arti settle on the berries and spoil the bloom. Whe: the fruit is ripe and expected to hang for soz time, the atmosphere of the house should $\$$ kept as cool as possible.
J. F.

## A Now Mode of Propagating.

A correspondent of the London Gardenti Chronicle of May 12 th states that he has $d$ covered a means by which be is enabled: strike and grow an almost incalculable numb of plants in a very small space, without: atom of soil of any kind.

He says:-"I am not aware that this mo: of propagation has ever been made knownl any other person, so that, if you think it wort of notice, you wili do me a favor if you will it publication. I also further ber to state, it my striking apparatus is simple, portable, : my own invention; and I need not explain you that it is on strictly scientific princip founded on the organic strueture of plar: After the cuttings are probably struck, a lin moss is tied round them; they will keep fo: month in that state."

The Editors of the Philadelphia Gardener Monthly, referring to this and other comme cations on the subject, says:-
"In one of our first numbers, the secretea out that there was no more difficulty in strili. eyes of Native than of Foreign Grapes, : vided, after they were cut ready for planit they were suffered to lie mixed with damp $m$. for two weeks in a place secure from dryi: Here they form a slight callosity, and $w$ : planted all grow. This hint we have reasor know has been extensively acted on, and $1 t$ sands of dollars have been made through the
aation thus giren. The hint, also, given by er of our correspondents, about leaving cutzs of such things as Cotoneasters, Prunuses, , in dark cellars in dry moss, when they fld push roots freely,-the accounts of strikin Sphagnum moss, and many other details practice and observation, have all pointed Clusively to one great principle, namely, that llus can be formed in any cutting before ng put into the soil,' and where that is cted, it can readily be made to root.
it is, in fact, now become well known to e-we may say many-of our most skilled pagaturs, that all cuttings can be made to ous, and then be made to grow. Apples, ches, cherries and plums, are now freely ch by several in our immediate vicinity from ings, and many hinds of trees once thought ossible to propagate in that way, are now ed so very freely.
zur uwn experiments, we have found a compreserving bottle excellent for callousing cuttings. A sponge is pushed tightly into bottom of the bottle, and water poured on. n ail the water is drained out that will go by inverting the bottle, and the cuttings ed loosely in. No cork is placed in the le, and evaporation takes place slowly and cutting soon forms the desired callus.
be whole secret, in fact, is in allowing free 33 of air to all parts of the cutting, at the time taking care that evaporation shall be so excessive as to dry up the cutting."
e Pear Bhigit.-A correspondent of the al New Vorker, writing from Hamilton, ., offers the following suggestion as a prere of the Pear blight, which has effected foung trees in that section badly. He is ble to give any remedy for those already
tbout the middle of Septemeer, or as soon as the leaves at the ends of the twigs begin ume a brown, withered appearance, let all oung wood of that season's growth be cut one half, let the sap bleed for a day or two, pen paint each cut end with a solution made $m$ shellac dissolved in ether. This will dry, forming a hard coat over the wound, will stop the further flow of sap, and receingress of air or moisture. The sap will flowing, the tree will assume its dormant and when hard frost comes the sap vessels ot be able to become ruptured, or the sap "
firs of Fruct.-In the $\boldsymbol{N} . \boldsymbol{E}$. Farmer, on is made of the Messrs. Clapp, of Dortr, Mass., who, Col. Stone says, by systeculture, raised each year, on five acres of planted with apple trees, $\$ 600$ worth of to as an under crop; while at the same they had a large crop of the best apples.

Their profits have been from $\$ 2,500$ to $\$ 3,500$ per annum.
Tue Sybiax Graie.-J. R. Gardner, writing to the Albany Country Gentleman from Mont. Co. Virginia, says:-"It will perhaps be news to some of your readers, to hear that ihe Palestine or Syrian grape ripenel, in the open air at Lynchburg, in this State, last year, bearing bunches three feet in length and twelve or fifteen inches broad. i procured a vine one year old last fall, which has stood the winter without any protection, and is now making a tolerable grood growth."

The Onion Maggot.-"An Experimenter" in a communication to the Boston Cultivator, says that he has succeeded in saving his onions from the depradations of the insect by sprinkling the ground plentifully with unleached ashes, and in case of dry weather, watermg copiously, after the maggot had commenced its attacks.

Watening Plants.-During the summer it becumes necessary to resort to artificial watering for garden plants, trees, \&c., and it is a matter of considerable importance to perform this operation in the best way and at the right time; the chief object being to supply just as much water as the plants need and no more. To do this, notice their condition at the time of application. If trees, which have been transplanted in the spring seem tole inactive, and thus throwing of but a small amount of moisture, very little water is required; young trees especially are apt to remain three or four weeks after being set out, without making any growth, and to give them an abundance of water would cause them to remain dormant rather than to help their growth. In such cases it is best to use water but very little. Again, if a tree grows fast and draws most of the moisture from the soil, water should be given, but not upon the surface. Break the top soil, and let the water soak well into the ground and not run off or form a hard ciust upon the surface.
In watering garden plants the operation often does more hurt than good. By applying it on the top a crust is formed, and if water is again poured upon this crust it immediately runs off or helps to make a thicker crust upon the surface. This keeps the ground dry and the plant makes but a poor progress. A better way is to make several holes in the plant beds, or small ones by the side of the plant and pour the water into them. In this way it gradually soaks into the carth and the moisture is easily obtained by the rootlets of the plant. It is indeed the only proper way of artiticial watering.
Evening is the best time to water plants. The sum is not shining and the state of the a mosphere is usually moist, which prevents a ready evaporation.
Country Gentleman.

## Hetreinary.

Cartin: Desase.-The Genessee Farmer, in reply to a correspondent who asks if there is no other remedy for the cattle disease than to kill all the cattle which have been exposed to it, sas. -"We can wive no opinion on this sub. juct. If the disaise can be arrested hy the slaughter of all the aftected cattle, it will be a great blesing-although it may appear a sreat waste of property. We were in England when the discaze ragel there some years aro. We lave known sereral heal of cattle to he badly affected in a herd; some of which recovered, and many others in the same herd were not attacked at all. We were on the farm of a lare dairyman of Moreton Corbet, Shyopshire. when the disease appeared the neighborhood. He immediately drenched all his cows with half a pound of Epsom salts, and a guarter of a pound of sulphur, and two ounces of spermaceti, dissolved in a quart or three pints (we are notsure whirh,) of warm water. His entire herd escaped, although the cattle on an adjoining farm were attacked and two or three died. We cannot say that the medicine he used was the cause of his escape, or that experience has shown it to be generally useful."

The Catrie Disense of Easten New Yohk. -The New York News states that the pleuropueumonia has made its appearance in several of the counties on the Ifudson River. It says no less than twelve head of cattle have died of the fatal disease within the last few days at Vail's Gate, Orange County, and that Mr. Jacob Storms, of Southeast, Putnam County, has lost seven cows within the last two weeks. Other persous, in Carmel, in that county, have also lost several. If this is correct, it behoves the farmers of this State to be on their guard, but we suspect the truth is exaggerated. Huwever, as "caution is the parent of safety," it may be well to be prepared for the epidemic.- Fizual New Sorker, (ith July).

## The Taity.

Machme for Mhensg.-The Scientific American contains an engraving and description of a machine for milking cows, patented by L. O. Colvin, of Cincimati, N. Y. The invention consists of an apparatus attached to the side of the pail, in which are rwo small pumps worked by levers, and which act upon the cow's udder through teat cups so arranged as to suit the size of any teat.
"The whole forms a compart, neat and durable.milking machine, and, with pail, only weighs six and one half pounds. It has been used daily for eight weeks, and the inventor states it does not injure the cow in the least,
and they stand quiet during the process ofe ing as if pleased with the operation. Thy time ever made with the machine was th: quarts of milk in one and threefourth m: three minutes being suticient time anlr much less lahor than by hand."

We have sonsidurable douht of the mes for or applacebility of such a machixe. nutice it, as one of the instances of the :tive genias of our nci, hatms.

## juanltro.

## The Dorking Fowl.

This justly celchnated breed of furk: very ancient origin, having been recode: some ancient pualtry books more thar, thousand years ago. They are remarkal: having five toes on their feet.

This beed is lable to degene ate if be: and in too closely, and the male hird shor: changed every sear, if it is desised to kefi the stock to perfection. They have bees ported to this country, and much used to with and improve our conmon barn-gardf but it is yet rare to mect with a Dorking e: farms in this country, of pure and unco: nated blood.
For general purposes, we think this bree. best of the whole poultry tribe; and the: also hards, and able to stand our cold wiz -Genesee Farmer.

## Domestic.

Ccire for Erysipelas.- Beat raw er ries to a paste, and bind on the parts affer

Park Cane.-Two cups molasses: 6 sugar; one of chopped pork: three of: one spoon soda.

White Wedmisg Cake.-One pound! one of pulverized loaf sugar ; three-fourti pound of butter; whites of ten eggs; th. megs : oil of lemon.

To make Opednuoc.-Take the best ( soap, two ounces; gum camphor, one of alcolsol, one pint-mix the soap with thes and let them stand in a moderate heat un: soap is dissolved, occasionally shaking to -then add the camphor, and continue to: the vessel frequently until the soap is dise occasionally shaking the rial-then ai camphor, and continue to shake the rea: quently until the whole is dissolved. is sprains, bruises, and in rheumatic pains.

Glay Curs.-Three cups of sugar; o: of butter; one cup of sweet milk; sis two teaspoonfuls of cream tartar; one fes ful of soda. The whites of the egzs ive a froth, aud How added to make of tbs consistency.

Mr: Cake.-Mrs. S., of Chautauque Co., $\therefore$, inquires if some one will give her a recipe akint plain loat cake with hop yeast. I give my plan :-Five pounds of flour ; two yar; three-fourths of lard; three-fourths of ar; whe pint of yetast: six or eight egess ; yeart milk: raisins and spice to your taste. e your dou h as for bread, and after raising jently, work in the otheringredients. Put tins and raise again.
also wive a receipe for molasses gringerd :- (hue cup of molasses ; one of cream: purn of ginerer : one twaspoon of saleratus: Hy, lake as thick as common soft cake. . Kalumazoo, Mich., N:ay, 1860.
yos Cake.-Take one teacup of butter, three of surar: rab them to a crean; stir them the yokes of five egers, well beaten: lve a teaspoon of saleramis in a cup of wilk, nad the milk: add the juice and grated peel .e lemon, and the whites of five ergs ; and a as light as possible four cups of flom.
wat: Susps-One pint of molasses; one of ofitser; one teaspoon of saleratus, buil angredients thoroughly. When nearly ald as much flour as cau be rolled into the ire. and cut rory thin-M. C., Berning. I. Y., $1 \times 60$.
cher or's Cors Cake.-A pint of sifted meal, and a teaspoonful of salt; two teafills of butter, and a cup of cream; two well beaten. Add mill: till it is a thin batter, and bake in a quick heat, and it like pound cake.
yov on Oravge Ice Chenm.-Squecze a !emons, and make the juice thick with : then stir in slowly three quarts of cream, reeze it. Oranges require less sugar.Wear.
Thang Sweet Appies.-To one half peck apples make a syrup of two pounds sugar, ae piat of vinegar. Buil the apples in rup until tender; then remove them, and asyrup of $2!1$ lhs. of sugar and one pint çar. Add une teaspoonful of cioves, and cimamon tied in a bag. Let the syrup jor 20 minutes; then pour it, while hot he fruit. The first syrup is good for other

Prepare Cithos for Frit Cake.and steep the citron until soft, then add sal yuantity of sugar ; dry them in a dish he juice is nearly dried out, then spread un plates and set them in a lukewarm oven Tr. Add a fev drops of extract lemon, ey are ready for use:-Mrs. N., GiouverN. Y., 1860.
sfd Merfins.-One pint of milk and two one tablespoonful of yeast and a spoonful t. Mi. these ingredients with sufficient 0 make a thick batter. Let it rise four or jars, and bake in muffin rings. This you id most excellent. Tinin.-Rural New

## fitiscrllancons.

A Motner's Love. - Children, look into those eyes; listen to that dear voice; notice the feeling of even a sinfle touch that is bestowed upon you by that rentle hand?Make much of it whio get yoa have that most precious of all wiond aitio-: a lovine mother. Read the matathonalic love of those eyes; the kind ansiety of that the and look, howerer slight the pain. In atter-life yon may have friends-fond, deat, hind friends--but nerer will you have arain the inexpessible love and rentleness lavished upon you, which none but it mother bestows. Often do I sigh, in my struf $n$ les with the hard, uncating world, for the sweet, deep security I felt when of an evening: nestling to her bosom, I listencd to some yuiet tale, suitable to my aree, read in her tender and untiring wice. Never can I forget her sweet glancea, cast upon me when I appeared to slecp, never her kiss of face at mirlt! Years have 1 assed anay since since we laid her besile my father in the ohl churchyard; yet, still her voice whispers from the grave, and her eye watches vier me, as I sisit spow su long since halloned to the memory of my mothe:-Macaulay.

Asmactas Eloquesce. - As a specimen of the stgle of criticism in which some American writers indulge, we extract from an American pajer the following, premising that the writer is a lady, and is criticising a marazine story. She says:-"I am so dazzled by a reading ot the first number that I hardly dare express an opinion of it. So much splendour gives rise to distrust in my mind. Is there no redundance in all this blaze of glowing rhetoric-in this passionate oupouring of wildering words-in this senstous eloguence of poetic ferrour? I hope not; I hope all the iflury of light in this unmetred poem irradiates from the illimitable sunstar. Isut the author must not blind us with unshadowed radiancemasses of lustruts bifue, heajed upon the passionate eagerness of crimson, and that ayain upon the majesty of proid purple. floating tremulously upon the tradiate pulses of pure light, throurh whose fiery gaps and golden chasms sound in the heavenly distance stops of planetary music. But the eye and the heart grow sick and languid with ravishment, and turn toward the distant grey, through whose solemn monotony shines the faint tremor of stars."

How qo get Water on Dri Fams.-In tras elling through the country, how many farms. do we find destitue of water. Nur, step up and ask why they do not dig a well--some will say "we are too poor;" others, "we are afraid to dig! Mr. So-and-so dug and found no water! others in this neighbuurhood have dug and drilled, but their wells are very deep, and I wouid as lief haul water a mile above ground as from a mile below; hesides, some of their wells cost as much as my farm is worth!' You can do
better than cither. lige a cistem at your house, batu or at the meares marine, of jilace where water will run in the spring, when the snow is melting. It is to this kind of a cistern I wish to call special attention, not a little ezte of a thing, lut a good large one, that will hold ten or ulteen cords of water.

Below I will give you my way of making a Ravine Cistern: Finst, determine upon the place; next, get all ready; then di, the size you want-(s) 16 and 10 teet deep is the size of mine)-after digesin: the depth you want, you will see what your fomudation is to rest on, and unless it is sravel, or rock, I would recommend digging the bottom out to a cirele, and commence the wall in the center of the bottom, and build an arch upside down, to rest your walls on, then build the heirht jou want your walls and arch over, if you have plenty of the right kind of stone, if not, plank it, cover over and let it settle and dry out before you plaster it, buil I a dam across the water run with the earth you duy out, so as to let the water settie some before you let it into the cistern; what little mud rums in will not injure the plaster any, and you can clean it out cerey time you get a chance.-Correspondent of Wisconsin Farmer.

Nygur Air.-An extraordmary fallacy is the dread of night arr. What air can we breathe at night but night air? The choice is between pure night air from withous and foul night air from within. Most people prefer the latter. An unaccountable choice. What will they say if it is proved to be true that fully one-half of all the -disease we suffer from is occasioned by people sleeping with their windows shut? in open window most nights in the year can never hurt any one. This is not to say that light is not necessary for recovery. In great cities nirght air is often the best and purest air to be had in the twenty-four hours. I could better understand shutting the windows in towns, during the day, than during the night, for the sake of the sick. The absence of smoke, the quiet, all tend to make night the bnst time for airing the patient. One of our highesc medical anthorities on consumption and climate, has told me that the air in London is never so good as after ten o'clock at night. Always air your room, then, from the outside air, if possible. Windows are made to open, doors are made to shut,-a truth which seems extremely difficult of apprehensinn. Every room must be aired from without,-every passage from within. But the fewer passages there are in a hospital the hetter-Florence Nightingale.

Lord Pamerston ox Rerai Apfatrs.-A foreign paper says that Lord Palmerston, in his 76th year, as lively and versatile as Rover, in the old comedy, recently delivered a lecture at Romney, very valuable for its practicel truths, on the mode of building cottages, and how to reform untidy people by making their homes comfortable. Ho threw out valuable sugges-
tions on the subject of practical farmied showed that the stingy hushandman mai political econonist who gave unremute wages to his laborers. In short, his $L$, was overlowing with practical wisdom, the of lone ex perience and observation.

## The Old Farm House.

In a litule grove of shade trees, Statuds a farm-house, brown and of
With a wealh of sines around it, Gemmed with flowers of red and gov
Br the path that makes a circle Of white sand around the lawn, G:ow sweet timothy and clover, Rosy as a June day dawn.
Iround its donr pale morning-glories, Jump-up-johmies, dahlias, pinks, Cluster-concentrated beauties, Married by a thousand links; Links of love, the works of nature's Mystery of handicraft;
Links of glory, through which fairy Argosies of perfume waft.
And the gate that swings before it, And the fence as white as snow.
Stand on rariegated cushions, Which the sun-fire sets a glow; Crowning them with many coloursYellow, purple, sreen and bluc-
As if rainbows there had fallen, Melted into rarest dew.
On its roof the greenest mosses Catch the shadows from the trees;
On its sides red honeysuckles Make their curtsess to the breeze;
And the ever-nervous willows, Standing near the garden's bound, Throw a wes of shade fantastic On the clover-mantled ground.
O'er the well an arch of grape vines, Formed with heaven's directed cand Chains the shadows to the water, Making cool the summer air: And a tiny church, its steeple Piercing through a bower of leave Is a sure and sacred refuge Where the wren her carol weaves.

Fectentity in Domegtic Animans.Farmer says that the Enclish are much attention to this, particularly as sheep, endeavoring to have ewes lamb year and bring twins every time, and ludes to the famous Chinese sheep wh some stir here some four years ago, reason is we now hear nothing of the not know). In their live stock, the have especially studied fecundity, early and aptitude. Their sheep are very three of them were imported into Lor
in the London Gardens, and the increase bis was so great that they became a nuisOne ere had live lambs, another four, other three. In the United States, Canheudore Smith began with the Chiuese in 1.54, and in eighteen months he had rease of seventr-four, one of the ewes had twelve lambs in fifteen months. In. that the sheep are large and handsome, e nutton of superior delicacy.
thing the Comphiment.-" What a woman!" was the exclamation of Iord dhor Eldon, upon passing a heauty, when up and down Westminster Hall, with his the Master of the Rolls, previous to the 4 of their respective courts. "What an nt judge!'" said the lady when her sensicaught the flattering decree of the Lord hancellor of England.
If yorr.-An Irish post-boy having a fenticman a lonr stare during torrents - the gentleman civilly said to him. , are you not very wet?" "Arrah! I are about being very wet; but, plase nour, I'm very dry."
otal length of railroads in Germany, at e of 1850 , was 7,949 miles.
crries may be profitably cultivated on ground that would otherwise be useless. obinson states that, at Cape Cod, where berry culture is carried to its fullest exampy lands, that were worthless a few 0 , have now "a saleable value of $\$ 800$ -00 per acre."

## ©ramsactions.

ty and Township Agricultural Societies.
act of reports received by the Board sulture in 1860, from County and ip Agricultural Societies, embodying veedings of those Societies for the 9 , with the names of the officers of nty Societies for 1860 .

## ADDINGTON.

tr Socierr.-Eighty-six members. of subscriptions, $\$ 87$; balance on om 1858, $\$ 121.98$; deposited by P Societies $\$ 220$; Government 479.98 ; Total receipts, $\$ 908.96$. muship branches, S484; paid to mittee of the Provincial Agriculociation, $\$ 262$; incidental expenbalance remaining in Treasurer's 22.96.
s,1860. President, Geo. Howard, Island; Vice-Presidents, Thomas wburgh, and C. W. Miller, Switz-
erville; Secretary and Treasurer, J. B. Aylsworth, Newburgh.

## township branctes.

Campen-Eighty-seven members; amount of subscriptions, $\$ 102$; balance from 1858, S100; share of public grant, $\$ 120$; grant trom townihip council, stu; total receipts, S 269 . Paid in preminms, $\mathbb{S} 2026.50$; incidental expenses, $\$ 33.08$; bulance in Treasurer's hinds, :3.4?.

> L.struct from Re.purt.
"Camden is proverbially a stockraising township. The only imported breeds, however, were Jurhams and Ayrshires, until Mr. Nimmo, in the fall of 1858 , introduced a number of Galloways from Scotland. These cattle have improved very much in appearance since they were brought to this country. The coms are said to be superior to any other breed, for furnishing milk of a rich quality. The majority of the farmers of this township prefer the Leicesters, to any other breed of sheep. Others think the Southdowns are more profitable, and more hardy. A cross between the two breeds, that is, a Leicester ram with Southdown ewres, produces au excellent description of sture or comnon farm sheep, large, broad-backed, hardy and well formed, with fine long wool ; they seem to retain the good qualities of both breeds.

On account of the depredations perpetrated by the midge, the growing of Fall Wheat has become almost obsolete; some half-dozen farmers in the Township, however, continue to cultivate it. By sowing, not later than the last week in August, on well prepared ground, it will ripen early enough to escape the fly.
The average yield, last year, was twenty bushels to the acre of Soule's wheat. But we think the Fife spring wheat safer. If sown about the nineteenth of May, the kernel does nut form until after the midge has disappeared. We would recommend a more extensive cultivation of "Indian Corn," as this crop leares the soil in a good condition for Spring wheat, barley, or oats the next year. The eight-rowed yellow is the best sort, for this part of the country; it ripens early, bears a large kernel, and may be cribled with perfect safety. It should be planted in rows forty-two inches apart, four grains in the hill, between the fifteenth and twentieth of May. There is more danger of corn being injured by frosts in the fall,
than in the spring. Peas are the most suitable grain to sow upon land that has lain three or four years to clover.

To show what may be done in reot enl. ture in this quater, we give a statement from a man who has had much experience in this branch of farming: J. Lucas, Jst., employed a skilled hand, who commenced working on the twentieth of last $A$ pril. in a field containing four acres of samty loan, which hitel been sufficiently manured from the barn-gard. One acre and a half of this fich was sown with carrot seed, and produced tifteen hundred bushels of the "large orance" carrots. One-fourth of an acre produced two hundred bushels of onione.

One acre and one-fourth under Swedish turnips, produced teu hundred and forty bushels; some of the largest bulbs weighing twenty-five pounds each.

One-half acre of turnip beets produced two hundred and sixty bushels.

The remaining half acre mas planted with early potatoes, and produced one hundred and thirty bushels, which suld on Kingston market during the first week of July for \$1 80 per bushel.

After the potatocs were taken off, the same ground was suwn with "White Stone" turnip seed, and produced one hundred and seventy bushels; worth 25 cents per bushel.

This Township is, comparatively spealing, a new one. The soil is so various in quality, and in the state of its cultivation, that we camnot recommend any particular system of farming as the most advantageous. Every man uught tu possess a knowledge of the properties of the soil he cultivates, and know how he should treat it to make it produce the desirul crop:"

Ennestown.-Seventy-cight members; amount subscribed, $\S 80$; balatice from 1858 , $\$ 26.34$; Government grant, $\$ 90$; total receipts, $\$ 202.3 .4$. Yaid premiuns, $\$ 140.36$; paid for copies of Ayprealturist, $\$ 30.50$; incidental expenses, $\$ 2$ ².48.

Sherfrenn-Forty members; amount subscribed, $\$ 40$; balance from $1858, \$ 5$; share of public grant, $\$ 44$; total receipts, $\$ 89$. Puid in premiums, $\$ 65.75$; expenses, $\$ 15.25$; balance in Treasurer's hands, $\$ 8$.

## EAST BRANT.

County Society.-One hundred and eight members; amount of subscriptions, $\$ 102$; unclaimed premiums, $\$ 12$; balance from 1858, $\$ 238.61$; Government grant,
$\$ 79.98$; total receipts, (exclusive posit of Township society, ) \$8.32.54. Township society, exclusive of depses paid premiums at seed wheat fair, $\mathrm{Sl}:$ do at Enion Show with West Ridin: ty, 8266.66 ; expeuses, $\$ 145.09$; t6 I') casurer's hands, \$330.S.t. The EH report that they held a seed fair dugust at Paris, which was well a: and of much service in enabling the: to obtain their seed wheat. Ther show in conjunction with the Wert Snciety at Brantford on 20th $\mathrm{Sef}^{\mathrm{F}}$ which was also well attended and sua
O.ficrers, 1860.-President, Das: Vaughton; Vice-Presidents, Charle law and George Stanton; Secret: Treasurer, Wm. Patton, Paris

## TOWNSIIII BRANCIES.

Oxondag...-Sixty six members: subscribed, \$171.12; balance free 813.6; share of public grant, \$70 from Township Council, $\$ 20$; rec ploughing mateh, $\$ 6.84$; total rf \$283.02. Yaid in premiums, $\$ 244$ : ses and sundries, \$38.15; balance: 85.87. The Directors report that show of horses and cattle, in autur good, both as to variety and quali the sheep department, the entries we numerous than in former years, and any shown at any precious exiibitio show of grain, roots se., was excellef fall wheat this year was about an crop, although injured in some loce the frost. Spring crops, with the e of hay, were excellent. With recar dairy productions and domestic tures, the show was a decided suec

WEST BRANT.
Ccusty Socifty.-Two hund fifty-seven members; awount sud $\$ 259$; balance from $185 \mathrm{~s}, \mathrm{St0} 07$; by Township branch, sbt; receir Jast Brant Socicty, contribution : Exhibition, $\$ 266.66$; grants from pal Councils of Town and Tonf Brantford, $\$ 100$; Government gra: 98 ; sundries, $\$ 0.25$; total receipts 89. Paid'for buildings for exhibi expenses connected with do, $\$ 307$ for clover seed, $\$ 9.10$; paid for Ayriculturist, $\$ 6.00$; paid to branch, $\$ 120$; paid premiums, $\$ 68$ ing, stationery;services, and sundrit 25 ; bàlance in Treasurer's hands,
, 1860.-President, Wrm. Thompfiklinad; Vice Presidents, James ill, Paris; Isaac D. Merritt, Scothand; ory and Treasurer, Duncan McKay; ord.
E.traces from incport.
directors believe that the effors wh the various agricultural societies prorince have given of late years a pulse to the more skilful breeding of to a more carefu! selection of seeds fring implements, and to a more ical and productive system of crop. rrughout the Province. They are nt too, that in no part of Camada ese efforts been productive of a better han in the west riding of the County
cat part of West Brant was originally y thinly mooded, and thererore prepeculiar attractions to agriculturists e mother country, disliking, as many do, the dense forests of the new This part of the riding forms a porprast tract of land, extending from ts of the Grand hiver in a southdirection, to the shores of Lake tract of land which originally con"what are termed "oak plains," and ontrary to the anticipations of many sof wild lands, has been found to a soil fertile and specially produche cereal crops. This soil is very ly a rich loan, casily draining itself tluous moisture, and also remarkaof tillage. Iyying chiefly on the il formation which contains what nically called "gypseous shales" it with plaster mines in various parts long the banks of the Grand River.
duct of these mines has been unand very beneficially applied to Ir erops of the district. This same 1 formation (ruuning nearly east () is the one, if we mistalie not, fieh are found those large salt which have in the neighbouring oved to be a source of wealth and prosperity, and which scientific refay hereafter discover to be more diffused throughout this part of ban has yet been supposed.
ppearance of the "oak plains" Itioned formed, in their uncultie, a singularly pleasing landscape, of a park-like character, and
in many places with heavy belts
of woodland, particularly along the margins of the rivers and rivulets. The beauty of the country has perhaps not been impaired by the spread of cultivation, as many fine trees have every where been carefully preserved, and numerous flooks and herds give animation to the scencry.

The capabilities of the suil in West 3rant have by no means been entirely neglected. This district has never bet: subjected to that scourging rotation of wheat after wheat, une year atter another, by which so many of the fine lands of the Eastern States have been rendered vastly more productive of weeds than of profitable grain. From the first settlement of these phains, on the contrary, a system of thorough fallowing has prevailed, and when the soil has been sufficiently prepared a clover crop has almost invariably formed a part of the sueceeding rotation. So successful has been the system pursued that the land is now gradually becoming, not more and more exhausted, but more and more productive of every species of crop. We have no hesitation in saying that $\underline{Q}_{5}$ bushels of wheat per acre is now quite as common a yield as were 18 bushels per acre some 15 years ago. There are some fine tracts of what was formerly woodland, which lie chiefly on the south side of the countr, of whici the tillage has not perhaps been so systematic, but with an increase of cultivated land there has generally, we beliere, taken place an improved system of culture.

Wheat is the staple crop of the district, and the one towards which the attention of our farmers has hitherto been most perseveringly directed. It has generally been found to be more profitable and certain when sown upon well cultivated fallows thar. when after any preparatory crop, such as corn, peas, or potatos. The decomposition of the clover sod and complete pulverisation of the soil have as yet been more depended upon than any direct application of manure. A fear of rust has hitherto deterred our agriculturists from manuring their wheat crops to any great extent. To guard against this evil has always been one of their greatest cares.
Several new kinds of wheat have lately been introduced, one of which, the Fife variety of spring wheat, is remarkably free from the attacks of this fungus, and almost all of them are more productive than the older varieties cultivated in the district.

Spring crops, such as barley, oats, and peas, are generally cultivated more or less by every farmer, but they do not any where, at present, constitute a crop sumn in regular rotation, and are perhaps in Western Brant, generally more or less uncertain, and are frequently less remuncrative than fall wheat

The hay crop of the riding is composed whelly of clocerand timothy, with an admixture of the wild grasses. Timothy is the only artificial grass cultivated in the district, and there is great room for doubt whet! er it is precisely the most suitable one that could be found for the use of the Chandian farmer. Experiment has proved that it is very defieient in aftermath, and that its nutritive qualities are no higher than those of other grasses which yield quite as largely at the first cutting, and spring up much more vigorously afterwards. We may give the alopecurus pretensis, or meadow fostail as an example. It is a grass very similar in appearance and nutritive qualities to timothy, but far superior to it as an after crop. We would suggest that encouragement should be given in future years, to the cultivation of new species of grasses. The rye grass (lollium premne), the cock's foot grass (elactyles glomeruhta), red-top (ayrostis vulgaris), sweet seented varnal grasses (anthoxun thum biloratum), meadow foxtail (alopecurus pretensis), different species of poa, and fescue grasses (pou pratensis, poa nemoralis, \&ic., festuca pratensis, frstura durinsculu, (ec.,) and others have been cultivated in the mother country. We observe that enterprising seedsmen have already imported the seeds of m.ny of these grasses into this Province, though perhaps not of the very best in the list. But very little trouble is therefore neecssary on the part of our agriculturists to give those grasses a fair trial. It has been found that a sod composed of different species of grasses gives a succession of nutritive pasture in the different scasons-one grass coming to maturity as amother withers away. J)ifferent soils and different sitmations do also require different sorts of herbage. The red top (agrosis vulyaris) is specially adapted for wet soils, and the wood meadow grass ( pron nemoralis) delights in shady woods.

We observe with much pleasure that the cultivation oi green crops is pradually getting more and more into fashion in this district ; thourh the breadth sown is yet comparatively insignificant, gencrally varying
from one or two acres to cight or ten: ally upon a single farm of from one w: hundred acres. A larger breadt! of te has perhaps beeu sown during the pas: than in any preceding one. The more? market, and more remunerative price: obtained for fat cattle and other liver: no doubt render the turnip crop of use portance than formerly; and the nor? convenient means of transport, and: increase of American and Camadian. and towns, will still further stimula cultivation of green crops. The cib: crcase of the population of the F States and of a large part of Canada, doubt in future years be in the larrec cantile and manufactoring cities and: rather than in the rural districts; an: increase of consumers will, day by dos der our home markets more imi: especially for the sale of beef, mutt:pork. Green crops will therefore is: every day more remunerative, and mim increase of their cultivation will ful. increased supply of manure, with still further to increase the fertility soil. The cultivation of green cres then too, at no distant day, supply: ble course in an improved rotation of.

It is in vain, however, to attemntli large quautities of greeu crops with: taining a large quantity of manure to with. Guano, bones, and other exth. manures are therefore valuable to t: culturist, and facilitics for obtainin? are very necessary to him. Agric societies would therefore do well : these manures within the reach of: in their varions localities, and to eno them to prove the efficacy of thesen by experiment. A merchant in the laris, a year or two ago, ground: hundred bushels of bones, but failed. lieve, in disposing of them to such: tage as he had reasonably anticipated. to the want of a due appreciation value of this manure by the farmin: munity. He proved, however, th quantity of bones that mipht be o: for small expense within this distri: very considerable.
liquid manure is another fertilisis: of great power. Mady a farmer who accounted skilful in his profession. onc or two thousand gallons of thisi mauure to be anually wasted-3: capable of producing some 4 or 51
cin Swedish turnips ; this fact makes al how far, how very far, Camadian whture is yet short of perfection. Mr. 'i. the very skilful and successful Eng. arrienlurist, is a strong advocate for in estensive use of liquid manurehe attributes very much his suceess in durral pursuits.
ano is a manure that can be obtained mot illimitable quantities, and when ald quality, is most powerful in its efwhether it be applied to turnips or $\pi_{1}$ curn.
s latter crop, it may be observed, is means so largely cultivated in Westanda as its merits would seem to nt. There is hardly any one of the woring States in which ihe number his of Tndian corn ammally produced, not nearly equal those of the wheat grown in the same state. This fact sem to show that our American on have become fully sensible by exof of the profits that attend the cula of this plant. Indeed when we ar he excellent fudder contained in bs, the sure return that it always afor good tillage, the case with which arvested, thrashed, and ground, we If wonder why its culture should een so much neglected in Camada as seen. As food for man Indian corn commands a ready sale-as food for srior animals, it has never been sur-
te years, as we before rewarked, a mprovement has taken place in the f live Stock. The superiority in of the sheep now bred in Western rer those bred some 10 or 12 years at once recognisable. Some persons though we think without sufficent that so much attention is not now don the breed of swine, as was some rago. 3 le this as it may, there can oubt that the general excellence of id of pigs is now certainly much than it was then. There may pos-- fewer fine individuals than there ro years ago; but yet the general me thiuk, is quite eçual to what it hat time. Great attention contivues aid to the breed of horses, and far? very ready to avail themselves of antages which the importation of rior horses from the mother country ntime to time offer to them. The
number of good carriage and agricultural horses now in the County of Brant is very large. A considerable improvement is risible in the quality of horned cattle, tho' we reset to have to say that less activity is directed towards improving their breed than exists with regard to cither horses, slieep, or pigs.

I gond breed of milch cows is much wanted in this Prorince; our importations of duiry pruluce from the United States are very large. A great saviug to the country might yearly be effected by the establishucnt of more dairies amongst us There are already a few in this part of Canada, but their number might be very largely and very profitably increased. It is much to le desired that Western Canada should nut be so wholly dependent, as hitherto, upon its wheat crop alone. This crop is sumewhat rrecarious in its nature, and it is therefore to be wished that at least a part of the great expeuse now devoted to it; culture, should be directed towards the raising of some other agricultural produce in its stead, of a kind less fluctuating in its returns and nore equable in its prices. We may remark too, that a varicty of produce acts somewhat as an insurance against risk. A blight upon wheat may be greatly cumpensated by a good yield of corn, a failure in hay by an extra productive crop of turnips, a light harvest of grain by an abundant return of cheese. On this principle, the reuring of live stock, the production of dairy produce and wool, the establishment of flowing mills and manufactories, should each contribute towards the mational wealth. The human family, besides, is made up of members differing vastly in age, in strength, ia mental talens, and we therefore require different employments suited to the different characters of cieh, so that the libours of all may be employed to the best advantage. We " waut all soats of employment for all sorts of men."

The profits of dairy husbondry cannot justly be estimated by the insignificant grains acquired under the petty system of dairy management that now commonly prevails in these parts. Very usually the weekly produce of sone three or four sows is taken to a neighboring storekceper, and is by him salted down along with other lots of greater or less excellence. When the whole quantity is sent to the large cities and inspected, it is of course found to be
in layers of every colour and of every quality ; and the sale of threc-fourths of a ker of good butter may be spoiled by reason of the admixture therewith of a small portion of am inferior quality. Were the produce of a greater number of cows packed up by the farmer himself in due scason, kegs of similar quality throughout might be cibtained, and these would command a higher and much more ready cash mariet. Dealers, in the event of a mercantile butter being packed up in large quantities in this district, would find it to their interest to purchase amd collect this butter after the manner done in the neighbouring States; and then, for a time, contrary to the usual course of things, the greater the sunply the greater would be the demand.

Cheese is a commodity which finds (as we bofore remarked of gairy produce in general) a large and ready sale in this provisec. Jo make good cheese recquires perhaps more skill than is needed to make grod butter; but again, the former article is commoniy: we think, more remuncrative than is tiac later. Good cellamge, and convenient utensils, are necessary for suceess in dany management. Of late years considerable attention las been directed towards the manfacture of eficient and economical charns, which have been constructed of rarious forms, and on various principles, and have at different times been more or less popular.

There is indeed no department in war agriculture in which the evidence of progress is more visible than it is in the mechanical. We everywhere meet with the application of machinery to new objects, :nd an inpravement in the manace in which it has abready been divected towards cithers. Reapirg machines asc now in universal use, abridenge the habow of the harvest by anosost one half, and threateniny tor dipplace :he Amenima main-cradic, which was it-cif a vath inpeovenest upon the leuropean sickle. Mowiny maclanes, tow, are very prevalent. Thwashar-marhines ate year ator yew hecoming nowe speedy and more elleciont in their uperations. Grabbers and cultimatos have lome bece in use, lionoh the anticipations of many of our agrienlourists, that these impleamenis would grently supnessede the we of the plough, have not been realised. For promoting a viqurous fermentation in the soil-Gor owercoming the inerior of our mother carth, no implement has yet been found suncrior to a well-construcied plough.

There is a great difference, howere. case of draught obtained, ard the er of work accomplished, by some ple: yond what is effected by others, and would do well to make it their bus: roughly to understand this. As a: making this truth evident, as wells ating a higher standard for crood pla the amual ploughing-matches nor: crally prevalent in this district, hari great use. In ti:c matter of famm: we speak with some difidence, butthat a considerable lessening of tha now recuived in their use, and a: ficient way by which they migh: their work, is possible. Wie could see boiless and stwam apparatus fort food for cattle more generally used! are at present. Wheie is a wreat: eficcted by cooking the food for var mals, especially of such as do noti cud.

It is very desirable that Camadare be impressed with the neeessity of: trees for timber, and of preservingl trees of their forests, so that in: young timber may supply the plat old. The present gencration of laz pants have no experience of the wat ber, and experience is the most teacher of the majority of mankind. is a rality in its teaching which $x$ instruction can never supply. As: this, apprenticeships are judgeds necessary for erery imate and p: Hence, too, the adiantange of moded hence the necessity for premiums: ties to stmalate and sustam inta: prise, mannfactories, \&c. Our fo: need not bealtugether unproductiva thing sate wod: there can be noi that they woald afford a luxuriants excellent pasture if they were somo
 it is reasonable to suppuse that the of shady wonds wouk he very catile during the summer heat. ${ }^{\text {th }}$ down of forest lands for pasture nucelty in the Britisin Isles. Mi years : go, the late Duke ci Am that rery fine cattle migint be wis his Jighland forcsts that had b down with the poa nemmorlis for pose.

But we must not mere!y nurtur cnt woods, and increase in manyp: number; me shiould also judicio:
acmise their usc. It is impossible :present system of fencing, so proraluable timber, e:m be much longer d, at least in the more advanced parts province. Hedyes, stone-walls, or will shortly beeome an absolute neThe attention of our tarmers canreftere tor soon be directed towards ding of a suitable substitute for fences. The Osare Orange may be in tender a plant for hedging purthis climate, the hawthorn of the ewutry has been found in some of America to haguish moder the heat; but there can hardly be a nat some of the Canodien speciss of the cock-spur, or crutuypss crusisfrelli, uple, wouid make an excellont fence. s, we believe, can be readily hought ir seedsmen, and thereiure experia decermine its value could not be ome.
dauting out of fruit trece has already deep hold of the minds of our Ca armers, and it is certainly well worIl the attention that it has received. my bushels of fine grapes, what rast is of plums and apples, might al-
Canadian famer obtain at swall n this we might take lesson from s:aus, who inhabit a country in many ilar to our own, and who prepare for mit of winter by storing up a very lection of prunes, raisins, apples, 드. verre that the more wealthy yeoare beginning to expend wo small the erection of permanent dwellines selves and their families. It is to $d$ that the taste and convenience I in the crection of these buildines nuensurate with their cost; but in ral or eren urban architecture in is at a very low cbb. Congruity © commonly ignored, and too often I meretricious omanent is substituwhtul elegance of construction, and : of character. We mean nut to und lavish expenditure, for elegance mase are by no means synonimous The useful and the ornamental are ly united in the works of nature, are also commonly so in the best ns of art.
anual Exhibitions exhaust a large rincome, but they are also a great engaging publ:c interest in favour ciety. It is important therefore
that thove exhibitions should be made as attractive as possibic. Novelty is an clement very nece-sary for their success, and therefore the IIorticultural Department is generally one of their most interesting prarts. In this depariment the beautiful wild flowers of Camada, cuttivated and justly admired as they are in Emope, mingt fill a smatl corner. In ou: matise woods may be fund lardy peremials, which for clegance, variety, and brilliant culours, may well compete with many of thuse sickly exutics which are now so much in favour. The Asclepias, Tuberose, the Lithospemum Officinate, the Wild Lupine, and Flowering Raspberry, are very slowy plants; the Uvulaia, Cypripedium, (mocas in flower). and Arbutus, :re of pecaliar form :and ingular elegance; the Hepatica, Simguinaia, Gentiana, Liatris, Gualtheri: Chimaphia, and Erythronim, are beatiful in themselves, and beantiful by contrast Many of them are rapidly becoming rane in this County, and may even become extinct within our borders. We no longer bruise the luxuriant foliage and drooping flowers of the "Ladies' Slipper" under our feet; our ejes are now selcom gratified by a sight of the tall bluc flowering stalks of the Wild Lupive, the former ornament of our plains. These plauts, and many others, have almost disappeared; their pleces are taken up ly the clover and graminecus plants, but still no lover of the beautiful would wish those elegant mementus of former years to be altogether forgotten and unseen.

We would iupress upon the far:acrs of We.t Brant the importance of cultivating well, rather than of cultimatiug much. Modern civilisation seens to shoot out, as it werc, into two branches or distinct systems, the one dividing the whole country into numerous small fizens, which comfortably sustain a very dense population,- the other congregating the people into viast mases in the mencontile and manafacturing towns. The one system prevails in Be!gium, which hass a population of some 400 persons to the squarc mile, and under which system, crops are growing incomparably greater (if we may believe late travellers) than those produeed under the Scotch system of busbandry. The other system prevails in England, whose large hereditary estates, and busy hives of manufacturing industry, camnot, for very many years, have their counterpart in this colony. Nor is it perhaps desirable that they should. The riches of the teening soil
have never yet been fully developed. Better perhaps, is it that the public domain, the sustenance of the ation, should be the patrimony of the many, than the iuheritance of the few. Better perhaps is it to win from the fruitful carth the abundant fruits that spring from hor bosom, than to work out a precarious and unhealthy existence amid the viecs and temptations of a town. Gipon a farm, there is continual and remunerative employnent for every one, grat or little. No stagnation of taade, no fickle change of fashion can render wheaten bre:d unaceepitable, or put beef and matton out of use. With ordinary prudence, alnost every (auadian may literally "sit under his own vine and fig tree, having no one to make him afraid"

TOWASHIP MBANCHES OF WEST MRANTT SOCIETY.
Bunfons-Oue hundred and thirty-two members; amount subseribed. $\$ 13 t$; share of public grant, $\$ 36$; reccipts at show, $\$$ 85; total reccived; selt.8.). Maid in premiums, $\$ 146.50$; expenses, 8044.02 ; balance in hand, S34.33.

## BRUCE.

Cowny Society.-One hundred and two members; amount of subscriptions, \$ 102 ; recejved from Towns!ip societies, $\$ 385$; received from sale of seeds, \&c., $\$ 155.55$; Government grant, S.779.98; total receipts, S1123.53. Paid Treasurer, balance from 185s, 811.50 ; copies of Agriculturist, $\$ 6.50$; paid ior seeds, freight, \&c., $\$ 152 .-$ 42 ; paiu townships branches, $\$ 660$; preminms, 8151.25 ; expenses and sundries, $\$ 149.24$; balance in hand ST1.6".

Oificers 1S60. Presitent, Wm. Withers, Kincardine: Vice-Presidents, Wim. Millar, Kincardine; William Blair, Pine Rwer; Treasurer, Malcolm MePherson, Kincardine: Secretary, John Mosely, Kincardinc.

## Ertrects jrom Reports.

'ihis saciety beld its serenth annual earibition, at Libeardine on Octuber thh, 145!. In consequence of the late depisssion in agriculuamafinis, it was not quite:o extensively supported as upon former accasions. The horses wre of a useful and respectable sort, thounh rather low in conditi $n$. The cattle were good, particularly the young stock. The sheep, in point of quality were very superiur to those shown in previous years. Ilogs shewed a decided improvement. The show of grain was rather limited, but
some excellent specinens were est: both in fall and spring wheat. In th and vegetable department, the spei were not only numerous, but very :in quality, considering the untarg weather they had to contend with. It cabbages, buth white and red, beets, $:$ and onions, being enormously large. . were some beautiful grapes. Sever: of cauliflowens, greens, \&c. Mess Innes, showed a most excellent spect: pearl ash, manufactured at their me: Kincardine. In the mechanical dey: a gereat variety of articles were shomu: elicited very strung recommendations the judges. The dairy departme: duced some must excellent speciu: butter. The display of ladies' fant wac also very superiur.

The prevailing character of the sail: county is, except a narrow space ${ }^{\text {a }}$ sand along the lake shore, a rich loas average value is from $\$ 25$ to $\$ 30$ f: and it is capable of producing ver wheat, oats, and peas; and whea older in cultivation, better barley be grown in the Province, than: county.

We cannot admire the gencrally: manner of cultivating and croppingt as it is a certain nay to bring a poor to the occupier, and a most seriousi: the owner. It is this:-after clearims of land, the first crop is generalif (some times roots and then whenti. first crop be an abundant one, it is again, and in some instances three wheat in suceession have been tat the same piece of land-alter whid of oats, such as it is, sowing a smath of grass seeds upon it. It is the to remain in that state to graye o: fodder, for four or five years, in or: nuture may revive it, and give tita stumps to dec:ay. The usual quac: duced is from 10 to 20 bushels a rate wheat, and about the same of acre. This method of procedure is: but reppectable, or yet profitable: goes to show the jgnorance of the If:aming, it made benclicial to to must be acted upon in a systematic manner, ani only under peculiar stances should that system be rai: some parts of bingland the threc-fit is used, in others the five-field, and few the seven-field system is prefer
it us to say, that in this county the fifeld system should be uscel in the instance, after which, the dive-feld. thiuk from experietace the following a of crops would give greater setums any wher which might a could be d. If the clearance i = mi:de sutieces.th in the staton, sy: lst tumip; : ond - wheat; Brd peas or o.ts; tha what lower or timuthy ; ath clovir or timo0 :ut for todder; tith glwze it with or young eattle ; 7t?: summer fathw, a wind dressing of ranate, and t.en ben. Dut if hit sufficiently car!'s 14 s. ec. suy lst fall whent; Ond oats; as; fh spuine we:t, whelower or 3 ; 5th for fodder ; ith for pastur:ge; i) summer fallow. Suwing jeutor derop will smother all sorts oi weeds, ar. the soil in a sond pulverized state a what chop. iltor t! is we would five fild costem, which is, 1st fall ruerriger a portion for brely in the ; ond peas ; :hrd sprins wheat. with resing of hanyard or areficial math oats; $5 \cdot h$ summer fialluw. If is soma somater than the 6th or 7th semeraily makes ion mach sarm, wit!: slender arain, but after thet time will 1 yod stem with a planp grain. shad net be somm in the stme tit ld than onen in six or seven years; but oure in ten yerrs it will givea butter

Py ubservar the above reutine of ws.il wilh be kept in a fresh luxu ate, and whin fucureble :ceso:s will (1) yield an abundant in rease. Early wing should bo attended to, which erer fails in giving bene ficial results famer, buth with regard to the as woll as the puanty of hiograin. many of the farmers in this county 1 pleasure bear ample testimony to abondant harvest. It our late saseral of them spake of having shendid return if fiom 32 tu 36 of wheat per ate, the whole of mibued their succers to caily sumat the eftit of April, 185s, was sown Ifemen whent per acre on hand re lem heon turnips the sasm be" which was harvevel ise bushels oi a very good gmality. Alloo on If April, hiso, was sown some Whett, 1] bushel per :cere, the rehich was 36 bushels por acre. On flyy, afier a slight manurins and
spring ploughed, was surn 2 bushels of gat: per acte, the roturn was $401+$ busbels per are; the quality almust superior to any I lave se:n in Camedd. In these instances we do not atrribute ume goud returns to the exara quality of the soil, so much as to the carty swing ad to the fatorable season.
the wages of working men are rather higher that they ought to be ; 3s. 9d. per (la) fin the acricultural habourer, and 6s. 8 d. the the chanic, are morv than can be given by the gemality of settlers, and these high rates pers ut the woik of improvementhom
 at a more raninable st mdard. lrom the newines of the county (he oldest township ant hat ing been soth d more than about ten years) weat iaprovements have not yetbeen obtained in the breed of catle. The clearaures bot ieciag sufficiently large to atiourd noud sumater grazing, nor that comfortable in due: :., commodation which there ought to be, to protect them from the inclemency of the weation in winter. We think the Ayrshire lreed, for dairy purposes, Durham for beef, and Devonshire for agricultural labour, the most suitable at the present time. A five year uld ax, Durham half-bieed, brousht into Kincardine this season, weighed ne.rly $1000 \mathrm{H} / \mathrm{s}$., and for quality of incat, wuid have been a very repectable acquisiion to ahy butcher's stall in C'anada. Sheep are oaly partially kept at present We think the southdown the must suitable; fine wool, and good mation, being taken into considcration. In loogs there is a very great improvement. A few yeans ago the hogs of this county ware miserably bad; almost a dionrace to their orners; at the present time they are good. Several hare been butchcred weighing from 450 to 600 lbs . cach.

Herticulture is iu rather a feeble state; the geneal atimiton being given to the clearing of the land for the production of grain. However, there are a ereat number of gardens well stocked with small funit wees, currants, gocsubrries, dic., and a great varety of meful vegetables. The planting of appls and wher fiuit trees, lats been pretty wellatended $t$. as we believe there ar. upwads of :300 aries of orchard ground at the present tiace in this county, and with farourable seasuls. we may safely calculate apoa having a good amual supply of this hioplly esteemed and usefu! fruit. The climate of this county quite agrees with the growth of all sorts of fruit trees; therefore
in the counse of a few years the plater will receive an abundant return for the care and attention he has deloted to the training and protection of his orehard and fruit garden.

Buildings.-The old Jog Shantes :re disappearing, and giviny ploce to neat and commodiou Prame Hou-es. Large fane baras, with other suitable buildings are now adorning a great number of famsteads in this countr; thus enabling the farmer to preserve his grain from spoliatiou, and bring it to market in a lit and proper state for consumption.

With regard to Draining, we may say. it is in its very infaney, as until the stumps are gone it would be impusible to perfin'm it as it ought to be, or with any certainty of repaying the farmer fur hi- outhy lands that :re suficiently elevated for a clean droining of the sufface water, should be formed into indges of from 35 to 15 fert in width. If nearly a level suffee, make ridges from 9 to 12 feet in widh; sive the three ploughings inwards; cut a drain up cach furrow, from 18 inches in depth at the tupend, to 30 inches in depth at the lower end of the field: each of the furrow drains opening into a heading drain, from which there should be out-falls at, every 20 rods distame, otherrise the silt or hose s,ill might eccumulate and fill the ope:ang. Pipes of two inch bore, 12 inches in lenpth for the furrow, and four inch bore for the heading drains, are now generally used in England. They are sold at $\$ 5.50$ for the smail, and $\$ \$$ for the large size. per thousund. But where there is a firm bottom, we profer the open horse shae shaped tile of 4 inches in width, ky. 6 inches in height, and 12 inches in length. They are sold at from $\$ 4.50$ to $\$ 7$ per thousaud, according to size. Where the ground is generally wet, it will require deep draining, say from four to six feet in depth, if you can obtiin :a sufficient fall for the water; no othermethod will have the desired effect.

Exeepting the frosts in June, we are happy to say, the crops did not suffer during the past year in any way whatever. We have not heard of the least symptom of the wheat fly shewing itself in this cuunty, and hope that with proper care and caution, it may be prevented."

## TOWNSHP BRANCHES.

Brant.-Ninety-seren members; amount of subscriptions paid, $\$ 80$; balance frcm
${ }^{185}$ §, 86.75 ; share of public grant. total receipts, \$176.75. Paid in pret Sis ; expenses, $\$ 49.54$; balance io surer's hands, 84221.

## E.rtruet from Repait.

Our grian crops are evidently imp espocially what, both fail and sprits (ilasgow ecems to auswer our soll: matr best, and we hope cre long to iron tain passing our doors and b away some of uar farm products to tha gre of an admiring multitude and tha scrutiny of the judges at the Provina libition, when we feel cosfident 4 township shall receive a full share laurels distributed on those occasions

Oats, peas, barley, all excellent, the wat uat roads to get to manket oz ers only raise sufficient for house er: tion. linots of every useful descripit improving and cultivatcd upan ref extensive semb throughout the torns. uot generally as eattle food, with the tion of tumips, of which there is a supply. Mangeis, beets, parsnips, Sc., grow to an chormous (almost inc size, as does also every variety of vegetables. A cauliflower, cut on t September, weighed on the lst of ber (after being divested of all surf leares, ©e., 98itis. ; the fluter's was 17 inches.

The dairy department at our amp was very creditable and the many: samples of delicious butter, chcese end sugar betukened the right solt al wives.
(To be continued.)

(F)itorial iVotices.

The Hanbrook on Asmear. Recorn ticumeras amb Agacenteras. Sta Dy Wm. P. Sheppard, Proprietoi of: cultural Agency, Ňew York. This, we suppose its principal object is to Mr. Sheppard's establishment, conta amount of interesting and useful inf Amongst the contents are a chapter: ing, giving some valuable hims on a tant art. A descriptive catalogue regetables and other garden phanks, tions for the culture of each; this erf about to pares. New Plants of Isin such ner plants as have come partih
aduring the year ; extending over 25 pages. Howers of the Year- 15 pages. New List of Agricultural and Horticultural it, issucd from the CTnited States Patent , during the year 1859. List of Horticuland Agricultural Jotrnals. Horticultural tory, heing a list of the establishments of userymen, Seedsmen, Flonists, \&e., in the 1 States and Canada, with the principal - eetablishments doing business in this ., actuping some 30 pages.
umbon's Mlagaze for Jur-New I.eomard Scott \& Co. Toronto: H. !. This is an excellent number of Black-

The articles are: The Secret History Rusian Camraign of 1812-Sir Fobert a: Cuptain speke's adreatures in Sumali Pat III.; Poctry; Judicial Puzzlesanipden Wonder; The Rogal Academy ine: Exhibitions; Nomman Sinclain-An agraphy-Part VI.; An Eiection in : Erinnys; The Reform Biil and the arty.

Trassictions.-A pressure of occupaprevented the requisite attention being , the usual alstract of the Societies' ReIt is commenced howeve: in the present - and will be contimued as rapidly as ciraes will permit.
hare Volume. We beg leave to repeat Agriculturist will be supplied for the © commencing July lst, at 25 c per copy, nies for $\$ 2.00$. The half volume will © 12 mumbers of 32 rages each, and not printed as a distinct volume, will a good sized book of 384 pages. The abers can be supplied from the loth inc. per copy to the end of the year.
jotin. We regret to notice that "The If Elucation and Agriculture for Nova is insaficiently suphorted to pay exnh that the editor and pablishers have d w. aspend the peniodical for a few - uder to ascertain whether the Teachmers are really desirots to have an eqresent their cause. We hope that - the Blue Noses will bestir themselves
a little, and not allow so well conducied and useful a journal to die out for want of adequate support.

To Cornespondents.-Communications for the Agriculturist should come to hand a week befure the date of the number in which they are to appear, as the paper must go to press several days lefore the nominal date of publication.

## Alarkets.

## TORONTO MARKETS.

July 2s, 1860.
There has been but little grain offered in the market during the past week. - In other articles of farm produce there has 'reen a more liberal supply and ready sale. The latest quotations are as follows:

Fin. Wheat-si 25 a 3138 per bushel.
Srung Whear-\$1 12! a $\$ 117$ per bushel.
Bamer-50c a 5 se per bushel.
Oats-32c a 34 e per hushel.
Peas-J0c a jac per bushel.
From-ExtraSuperior, $\$ 650$ a $\$ 670$; extra; S6 a $\$ 620$; fancr, $\$ 525$ a $\$ 50$; superfine No. $1, \$ 51.5$ a $\S 5020$; superfine No. $2, \$ 490$ a $\$ 5$;
fine $5+20$ a 425.
Hir-new, \$9 a $\$ 14$ per ton.
Stran- 0 a $\$ 6$ per ton.
Wool-29c a 30 c per 1 b .
Pref-frrst-class cattle, S5 50 per 100 ; second class, $\$ 40$ a 50 ; inferior, $\$ 30$ a $\$ 4$.

Sheer- 8350 a 54 each.
Lambs- 52 each.
Ponk- $\$ 0$ per 100.
Hines- $\$ 50$ per 100 ; Tallors, 5750 a $\$ 10$.
Sueep \& Lamb Shins, 40 c each.
Potators-new, plenty at 30c a E 0 e per bushel.

Brtwen-fresh, 13 c a 15 c ; tub, forshipment, 10 c a $11 \frac{1}{2} \mathrm{c}$ per lb .

Egas-lise a laje by retail per dozen.
Chichens-25ea 30c per pair.
Decks-30c a 3.je.

## AEW YORK MARKETS. New Yorl, July 27.

Flour-receipts 3,691 brls; market heary; but prices wihout important change; sales 10,400 brls at 5.5 to $\$ 510$ for Superfine State; $5 \overline{5} 10$ to $\$ 530$ for Extra State; $\$ 490$ to $\$ 505$ forSuperfine Western; $\$ 505$ to $\$ j 25$ for common to medium extra Western; $\$ 52.5$ to $\$ 545$ ior inferior to good shipping brands round hoop Ohio.

Chnamin Fiour-dull and drooping; sales: 480 brls at $\$ 495$ to $\$ 5$ for Superfine; $\$ 505$ to. $\$ 50$ for extra.

Rre Ftotiz-steady at $\$ 350$ to $\$ 420$.
Wheat-receipts ll, 0.42 bshls; market without striking change. The scarcity of freight still restricts the export demand; sales 35,000 bshls at $\$ 121$ for lacine spring: $\$ 120$ to $\$ 1$ 21 for Milwaukee club; \$1 20 to $\$ 125$ for winter red Western; $\$ 146$ for prime white Indiam ; $\$ 130$ for new amber Southem.

Ryy-quiet at 80 to sle.
Bamer-nominal.
Cons-receipts 31, s15 bishls; market litte firmer with small supplies; sales 22,000 bshls. at 61 to 62e for common to prime mixed Western.

Oats-steady at 37 c to 40 c for Western, Canadian and State.

Pork-heavy and lower: sales of 700 brls at $\$ 1887$ for old Mess; $\$ 18$ to $\$ 1912$ for new Yess; $\$ 1250$ for Prime; $\$ 14$ to $\$ 1425$ for new Prime.

Beep-steady and unchanged; sales 325 brls.
Fams-sil.

## MARKEIS AND GROPS IN ENGLAND.

(From the Mart Lane Express of July 9th.)
"To be able to report a brilliant week after such protracted wet and cold weather, is really a relief and a subject for gratitude. Haymaking has rone on extensively; a portion is already assured, and some carried with a better result than at one time was expected; the raised temperature previously to the dryness having much improved the crop, which may now turn out an average. But those few, who in despondency commenced cutting in the wet, have been obliged to force off their new gatherings at damaging prices. With respect to corn and roots, there has not been so decided animprovement, the soit, especially heary lands in low places, being apparently water-logged, though bound on the surface. Potatoes have no strength; neither wurzel. Wheat very slowly advances on the best soils, and looks hopeless on the worst ${ }^{\text {a }}$ as is the case with Barley; and there is no time now for a tillering or increase. But this makes it the more important that the fine weather should last till harvest is over, as an abundant yield under the most favourable circumstances is impossible. Yet the markets have shown the usual sensitiveness under a clear sky, and have universally given way fully $1 s$. per quarter. The rates at present are beyond speculative demand, and the quantity with better though not heary foreign supplies being beyond millers' present wants, whose policy at such periods is 'always reserved. Foreign markets, too, have rather fallen back, upon the dull advices hence, excepting Odessa, which had been sent up by English orders ; and perhaps there is no country but France that will be less than an average. There the rates have given way 1s. 6 d . to 2 s . per qr.; but the gencral lateness cortainly places the aniversal yield in greater jeopardy. As respects
the devastation of locusts in Russia it tar to be but trivial, and there is every pr that the South will prove to be the richos in corn known for a long period. In Sp places are well reported excepting bare and rates at Seville have been falling fast America Wheat has been buoyant, and quantity exported; but Flour was rather! No arrivals oft the coast reported since 29 th to July 6th. The business reportedfollows: the late seasonable weather bs effect of reducing the sales of only 8 ca Maize arrived-a cargo of Port Lagos at 2 American at 32s. and 31s. 9d. per fic and 2 Odessa at 33s. per 492lbs. Barleyr sage-Danubian at 2 ōs. 6 d . per $400 \mathrm{lbs}_{9}$ (due in London) at 24 s . 6 d . per imp, qr .; hian per steamer at 25 s .6 d . per 4001 bs .

The sales of Wheat noted last week 47,951 qrs. at 58 s .5 c ., against $59,350 \mathrm{q}$ 1859. The London averages were 56 . $1,532 \mathrm{qrs}$. The imports into the principe of Great Britain for the week ending 294 in Wheat and Flour were equal to 96,989

Imporeaext is Thming. - The in ment in taming hides and skins of all d tions, just patented by Charles L. Rot of Wankesha, Wis., consists in the cmplt of terrajaponica-purified by a very sim $\beta^{3}$ cess-in combination with certain salts e nesia and potassa, whereby both appe sole leather of superior quality are prod! By this process tarning operations $i$ conducted altogether independently of $t$ and hemlock barks of our forests, in an, tion where plenty of water can be obtaint
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