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OF THE
BOARD OF AGMTCUTIURE OF UPPER CANADA.

YoL. V.
TORONTO, OCTULBER, 1850.
NO. 10

## PCINTS OF DIFEERENT BREEDS OF CATTLE.

The New York State Agricultural Society has issued the followi: g system of estimating the selative value of the various peints of several distinet kiads of cattle. It is a subjert of growing importance in this country, and one that is confessedly surrounded by many difficulties.We can hardly expect our readers to agree with every thing contained in the subjoined paper; but most of them will look upon the information it contains as highly useful and suggestive to all breeders and judges of cattle; and for the benefit of such we are induced to pubish it.-Edifor.
pornts of excelizence in cattle. Adppted by the New Yorl State Agricultural Suciety, for the guidance of the Judges at their s Annual Fairs.
The numbers affixed to the points described form the maximum that is to be allowed for each; and in proportion as the animal ander examination is deficiont in any point, so will the Judges decrease the number, even should nothing be allowed for that point.

Points which are characteristic, and therefore common to a breed, though very valuable in themselves, are marked comparatively low, because they are easily obtained and demand but little shill or attention on the part of the breeder: nevertheless, an animal not possessing the characteristics of its own brced, must of necessity be almost worthless. On the other hand, it will be observed that points of less value, perhaps, in themselves, but which are characteristic deficiencies in the breed, or at any rate difficult to sustain at their maximum excellence, are marked numerically high, as they go far to complete or perfect the natural excellence of the animal.

Again, for the above reasons, it will be found that the same points, in different brceds; have different numerical values attached to them.

POINTS OF A SHORTHORN COW.
Pedigree-showing unbroken descent, on both sides, from known animals, derived from Eng-
lish heris, as found in the English or American Herd books, and without his, an animal can not compete in this class.
3 The Head, small, lean and bony, tapering to the muzzle.
2 The Fars somewhat long, the fleshy porion of the nose of a lightdelicate color.
2 Tue Eye is of great syyuficance and should be, prominent, bright and clear-"prominent," from an accumulation of "adens" in the back part of its socket, which indicates a tendency to lay on fat-" bright," as an cvidence of a good disposition-"clear," as a guarantee of the animal's health; whereas a dull, sluggish eye belongs to a slow feeder; and a wiht, estless eye betrass an unquiet, fitful temper.
1 The Horns-light in substance and waxy in color, and symmetrically set on the head; the E.se large, thin, and with considerable action.

2 The Neck- rather short than long, tapering to the head; clean in the throat, and full at its base, thus covering and filling out the points of the shoulders.
is The Curst-broad from roint to point of the shoulders; deep from the anterior dorsal vertebra to the fioor of the sternum, and both round and full just back of the elbows; some-times designated by the phrase, " thick through the heart." These are uaquestionably the most imporiant points in every animal, as constitution must depend on their perfect development, and the ample room thus afforded for the free action of the heart and lungs.
5 The Brishet, however deep or yrojecting, must not be confounded with capacity of chest ; for though a very attractive and selling point, it, in reality, adds nothing to the space within, however it may increase the girth without.It is in fact nothing more nor less than a muscular adipose substance, attached to the anterior portion of the sternum, or breast-bone, and thence extending itself back. This form, however, of the brisket indicates a disposition to lay on fat generally throughout the frame, and in this point of view is valuable.
4 The Shoulder, where weight, as in the Shorthorn, is the object, should be somewhat upright and of good width at the points, with the bladebone just sufficiently curved to blend is upper portion smoothly with the crops.
8 The Crops must be full and level with the
shoulders and back ; and is, perhaps, one of the most diflicult puints to breed right in the Shorthorn.
8 The Back, Loin and Iltpg should be broad and wide, fuming a staight and even line from the neek to the setting on of the tail, the hips or hacks round and well cobered.
5 Tue Rearss laid up high, with plenty of flesh on their extrenities.
2 Tue 1 envis should be large, indieated by the wath ot the hips (as aldealy mentionel) and the breadth of the twist.
3 The Twss, should lin so well filled out in its: "seam" as to form nealy an even and wide plan, between the thigis.
5 Tue Quarters-long, straight, and well developed downwards.
4 The Cancass-rumil ; the ribs nearly cirenlar, and extending well bark.
3 The Flanks-deep, wide, and full in proportion to condition.
2 The Ler- short, straight, and standing square with the body.
3 The $\mathrm{P}_{\text {lates }}$ of the belly strong, and thus preserving nearly a straisht under hine.
2 The Tanl-llat and bload at its root, wut fine in its cord, and placed high up, and on a level with rumps.
2 The Carrage: of an animal gives style and beanty; the walk should be square and the step quick; the head up.
15 Qunirry-On this the thiftizess, the feceling properties, and the value of the animal depends; and upon the touch of this quatity rests, in a good measure, the gracier"s and the butcher's judgment. If the "tunch" be goorl, some deficiency of form may be excused ; but if it be hard and stifi; nothing can compensate for so unpromisius a feature. In raising the skin from the buly, between the thumb and finger, it slounld have a soft, flexible and substantial feel, and when beneath the out-spread hand, it should move easily with it, and under it, as though restins on a soft, elastic, rellular substance; which, however, becomes firmer as the animal "ripens." A thin papery shin is objectionable, more especially in a cold climate.
2 Tue Coat should be thick, short and mossy, with longer hair in winter, fine, suft and glossy in stimmer.
3 The UdDer-pliable and thin in its texture, - reaching will forward, nount behind, and the 100 teats standing wide apart, and of convenient size.

## POINTS OF THE SHORTHORN BÜLL.

As regards the male animal, it is only necessary to remark, that the points desirable in the female are generally so in the male, but must, of cousse, be attended by that masculine character which is inseparable from a strong, vigorous constitution. Even a certain degree of coarseness is admissible, but then it must be so excluoirely of a masculine description as never to be discuvered in the females vilhs get.
In cuntra-distinction to the cow, the head of the bull, may be shurter, the frontal-bone broader, and the vecipital flat and stronger, that it may reczive and sustain the hom-and this latter
may be excused if a little heavy at the base, mo its spiral form, its quality and color he right. Neither is the looseness of the skin, attached to, and depending from the under jaw, to be deemed wher than a feature of the sen, prorided it is not extemed beyond the bone, but leaves the equllet and throat clean and free foom dewlap.
The uppee portion of the neck shonld be full and musculur, for it is an indication of strensth, power and constitution. The spine shouhd le strons, the bones of the loin lone and briad, and hie whole masechar system wide and therunghly developed over the estite fiame.

## NORTII DEYONS.

Pubity of bloond, as traced back satisfactorily to impurtations oi buth dam and sire, from hnown binglish breeders, or as fomed in the latelyestadished Herd Buok, fur Norlh Derons, and without this, an animal camot compete in this class.
4 The Hbad should be small, le.an ambl bony: the forehead wide, flat, of, fiom a fulness of the fromal bune over the eycs, smotwhat dishing; the face straight ; the muste fine; the mestils open; the hips thin, and rather fat. 4 Trie Nuse of a light delicate orange color.
4 Tus Ese should be bight, promine. i, and clear, but mild and gemle in its eapmessiuns as indicalive of that spirited, but trat table dispositus, so necessary to cathle that mast bear the yube; a beantind ondyge-evored ring shouhl imariably surnomb time eye.
2 Tur Ear-thin ; of a rich urage cotor within, of medium size, with a guichand realy move. ment, expressive of attention.
2 The Honss-light, tapering, of a wasy color tuwards the extiemity, and gaily as well as symmetijealiy placed upea lie liead; the cecuphal bune, namow, has linging the base of the horns nearer together
2 The Neck of medium length, somewhat lighi in substance, very clean, and well set up ore the shoulder.
14 Tue Chest-deep and round, carrying its fuluess well back of the eliunvs, thus affording: by the and of a springing rib, abouldant intenal summ for the action of the thuracie viscera, the heart and lungs, am that too without an extreme width fonsard, and betweeti the points of the shoudders, which might interfere with the action of the duimal.
4 The Busket-It being assumed that it addsnothing to the internal capacity of the chest, must nut overlual the breast, but be sufficiently developed to guaratee a feeding propetty, attended with a full propontion of fatty secretion.
4 The Shoclder is, in this breed, a very beautiful and impontan point, and should int a degrce approxinate in form to that of the horse. It should take a more slupurg position than is found in most other breeds, with its points less projecting, and angular, and the blade bone moie curved, thas blending with and forming a fine wither, rising a litle above the level line of the back.
3 Tus Crops full and eve, forming a true line
with the somewhat rising shoulder, and level back, without either drop or hollow.
$y$ Back, loin and hips, broad and wide, lunming on a level with the setting on of the tail.
5 Tme Rumps-lying broad apat, high, and well envered.
2 The Pelvis-wide.
3 The Twist-lull and broad.
6 The (ecamens lung and horotohly filhed ip between the how, or hip bines, and the rumps; with a grod muscular development down the thigh to the hocks.
3 The Frask, modendely deep, full and mellow, in proportion to condition.
5 The Lecs not tou stort, and standing as equare, anll stadight behind, as may be compatible withactivity. The bone quite small below the hock and knee; the sinews large and c!eat. with the fore-arm well developed.
2 Tue Cancass round and straight; its posterior rius almust chechar, extending well bsek, ami spinuine uealy lotizontally from the renehat, givius, ill faci, much greater capacity that would at first appear.
1 Tue This, at its jubction, level with the back, lons, sely slender in its cond, and tinishins witha tassel of white hair.
1 The Colon, in its shades and degrees, is more or less guve:ated by tashiva: but un the Devon is alwass red. Fumenly a rich blood-red was the tavonte culor, and a lest of puity; and now a scmenhat lighter color is in voene, apploachinge tather heater to that of the South Devon, which is a lagrer, comser, stronger animal. In all cases, the color - ows lighter round the muzale, whele a dati mahogray colo, vesging almost to a black, and growing yet dalser about the head, always was a vely questionditle colur for a true Sorth Decon, mone especially when accompanied by a dark nose.
a The Ilarr should be shott, hick, and fine; and if showing on its surface a hine cunl, ur iepple, it louks iicher in color, and is supposed to indirate a hardier and more thrifty atimal.
1 The Uvder should be such as will afford the best promise of capacity and prodact.
3 Carmage-The Devohs havin!, from their excellence in the yoke another destiny besides that of the butcher's block, it is all-important that the animal's carriage should iadicate as much; but, to obtain this, something of the heavy, inct, squarely-moulded frame of the metely beefing animal must be relinquished for a lighter and more active frame.
15 Qualirx-On this the thriftiness, the feeding propeties, and the value of the animal depend; and upouthe touch of this qu-lity rests, in a great measure, the gramier's and the butcher's judgment. If the "touch" be good, some deficiency of furm may he excused; but if it be hard and stiff, nothing can compensate for so uuptomising at feature. In raisnig the skin from the body, between the thumb and finger, it should have a soft, llexible and substantial feel; and when beneath the out-spread hand, it shonld move easily with it, and under it, as though testing on a soft, elastic, cellular substance; which, howe ver, becomes firmer as the
animal "ripenc." A thin, papery skin is - objectionable, more especislly in a cold cit100 male.

## POINTS OF THE DEVON BULL,

 Same as the Shorthorn Bull ;-which sce.
## HEREFORDS.

Platy of buood, as traced back to the satisfartu, of of cumatiees, to impunted blood, on both sides. hom sume hnown English breder, or as found in Eyton's Herefond Herd Book.
3 Tha lliaj-modenately small, witi a good wisth of forehead, apering to the muzale; the cheek-bone sather dee?, but clean in the jaw.
2 The Nuse, lixht in its colur, and the whole head free from tleshiness.
2 Tue Eye full, mald, and cheerful in its expression.
1 Tue Ear of melium size.
2 Tue Horso-light and tapering, long and speedhus, with an outwand and upwad turn, giviug ag is and lufty expression to the whole head.
2 Tue Neck-of a medium lenath; full in its junction witi the shoulders, apreadiug well over the shoulder points, and tapering finely to the head.
14 The Cuest-broad, round, and deep; its foor anning well lack of the elfows, which, with a spmaging fore rib, gives great interior capdcity to ibis all-important poition of the body.
4 The Brisket-when in flesh, la:gely deseloped, deecending low belween the legs, and deep. by covetiag the anterior portion of the stemam, or Leatiothone, but never inisifering win the action ot the animal whe: in working condition.
3 The sholnder-lying snugiy and closely in towands the top, and spreadiug towards the points; the blade sloping somewhat back, and rmuning pretty well up nto the withers, which, by tising a vely trifle above the level lite of the back, sives to the ox a veiy upstanding, and beauiful fore-end. The whole shoulder well clothed with muscle.
3 The (rops-filling all up evenly behind the shoulders, and blending them smoothly with the muscles of the back.
8 The Back, loin, and hips, should be broad, wide, and level.
4 Tue Rumps should lie nearly, or quile level with the back, and their covering sheuld be abundent, mellow, loose, and freely muving under the hand, thus showing great aptitude to fatten.
3 The Pelvjs-roomy, indicatud by wide lips, as alrady mentioned, and the space between the rumps, which should stand well apart, giving a general breadih to the posterior purtion of the animal.
5 Ine Twist, broad and full, extending well durn on each side of the thigh, with corresponding width - a broad twist as a gove indication of a butcher's animal.
6 The Ilind Quarters-large and thorodghty develoned in their upper and more valudble portions, as beef. The thiyh gradually tapering to the hock, but muscular.

8 Tue Carcass-round throughout, full and capacious, with the under line of the belly level, or nearly so.
3 The Flask full and wide.
3 The Legs-straght, upright, firmly placed to support the supernicumbent "ersht; a stong; back sinew, but by no means al large, coarse calnon bone.
3 Tue Plates of the belly stong, and thus preserritur wally 1 staight under line.
a The Tant.-large and lull at its puint of attachment, but fine in its chord.
3 The Carbiate-prompi, lesolute, and cheerful ; and in the ox, gay and lively.
3 The Har-hich, close and furry, and if accompanied witn a loner growth, and a disposition to cuil moderarely, is mure in estimation, but that which has at harsh and wiry feel is objectionable.
2 The Udder should be such as will affud the best promise of capacity and proluct.
1 Color-Reds or rich biowns, oftentimes very dark, whit a white or "brocklell" face, ate now the colors, and marking of the Hesefords, though grey llerefonds, or cieam-colored, are not uncommen.
15 Quality-On this the thiftiness, the feeding properties, and the value of the aniral depents; and upon the touch of this quality rests, in a gıeat measure, the grazier's and the butcher's julymem. It the "touch" be gond, some deficiency of form may be excused; but if it be had and stiff, nohing can compensate for so unpromising a feature. In raising the skin from the body, between the thumb and finger, it should have a soft, flexible and substantial feel, and when bentath the out-spread hand, it shoull move easily with it, and under it, as though resting on a soft, elastic, cellular substance; which, however, becomes firmer as the animal "ripens." $\Lambda$ thin, papery stin - is objectionab.e, more especially in a cold 100 climate.

## POINTS OF THE HEREFORD BULL,

 Sume as the Shorthorn Bull;-which see.
## AYRShires.

Purity of Blood, as traced back to importations of both dan and sire, under such evidence as will satisty committees.
4 The Head, as in other preeds, small ; the face long and narrow ; the muzzle and nose variable.
2 The Eye placid and not strikingly larte.
4 The Ear of full size, and of an orange color within.
2 The Horas small, tapering, with an outward and upward turn, and sct on wide apart; the face somewhat dishing.
4 The Neck of medium length, clean in the throat, very hight throughout, and tapering to the head.
6 Tue Snoulders lying snugly to the body, thin at ther top, small at their points, not longs in the blade, nor loaded with muscle.
12 Tue Chest must retain sufficient width and roundness to insure constitution. The lightness of the fure-quarter, and the "wedge-
shape" of the animal, from the hind-quarter forward, arising more from a small, flat and thin shonlder, than from any undue narrowness of the chest.
4 The Crors easily blend in with so thin a shoulder and prevent all hollowness behind.
4 The: Bmisker not over-loading the fore-end, but light.
S Tuse Back should be straight, and the loin wide, the hips 1 sther high and well spread.
4 The Pesivis roomy, causing a good hreadth at what is termed the "thurl," or "round-bone," and beincen the points of the rumps.
6 Tus Qearrers lone, tolembly muscular, and full in their upper portion, but moulding into the thighs below, which should have a uegree of thatues, atfurding thus more space for a tuil udder. The flank well let down, but not heary.
$s$ Tute Rabs, behind, springis out very round and full, affording space for a larise udere, which by Ayrshire breeders is considered sery essential to secure the milking property; the whole carcass thus aequiring mercased bolume towards its posterior portion.
4 The Rusms nearly level with the back, projecting but litle.
1 The Tail thin in its cord, of full length, light in its hair, and set somewhat farther into the back than would be admissible with some other breeds.
3 The Lecs delicate and fine in the bone, in clining to be short, and well knit together a the joints.
12. The Udden in this breed is of more especial importance, as the Ayishires have been bred almost exclusively with eference to their milhin: properties. The great feature of the udder should be capacity, without being fleshy. It should be carried squareiy and broad y forWard, and show itseff largely behind. As it rises upward it should not mingle too immeviately with the muscle of the thighs, but continue to preserve its own peculiar texture of skin-thin, delicate and ample in its folds.The teats should stand wide apart, and be lengthy, but not large and coarse.
6 The llandinit; will show the slin to be of medium thickness only, moving freely under the hand and evincing a readiness in the anmal to take on flesh, when a drain on the constitution is no longer made by the milkpail.
4 The Hair soft and thick, in the phraseology of the country, woolly.
1 Coior, varies-a dark red-a rich brown-a liver color, or mahogany, ruming into almost a black; those very much broken and spotty at the edges on a white ground are the favorito colors at the present time. The light yellow is, however, a color sometimes found on very good cows, but these pale colors are objected to from an impression that such belong to animals of less constitution.
1 Carbiage should be light, active, and even -gay; this latter appearance is much promoted $100^{\circ}$ by the inward turn of the horn.
pOINTS OF THE AYRSHIRE BULL, Same as the Shorthorn Bull;-which ee.

GREAT NATIUNAL CATTLE SHOW AT KJLIARNEY.
Abridged from the Irish Fiurmers' Gazelte,
The Royal Agricultural Improvement Society of Ireland lueld their gicat annual show of catele at Killarney, on Wedeesclay, August 10th, and three following days. The site was judiciously and conveniently chosen, being the rising ground belonging to the Railway Company, Ifing between the tailway and Cork mail coach road, and immediately opposite the station oflices. 'The cattle, p!'s, poultry, butter, cheere, and llax, were exhibited in spacious sheds erected lor the purpose; the sleep in pens in front, and the inplements on the low excatated area, between the slopes and reils, flights of steps being erected to give free and easy access between the cattle and implement yards. A constant and full supply ef water was conveyed from the company's works by force pumps and pipes, specially laid down for that purpose, which suppiied spacious temperary tanks. On the whole, the arrangements were good, and well carried out in do ail.

The entries for short horns were more numerous than they were for last year's show, held at Galway, and were very select-se .iuch so, as to excite the adn.iration of the judges, who declared that finer or better stock could not be exhibited at any show; in fact, it could not be otherwise, as the best blood in England, Ireland, and Scotland, was well represented. Lord 'Talbot's splendid bull Phœnix, which was awarded the first prize of 30 sovereigns, and the gold medal, as the best of all the prize bulls; every day lie gets older he gets better; in fact, his best points are becoming every day more fully dereloped. Mr. Douglass of Athelstaneford, took the second prize. In fact, by a careful examination of the prize list it may be perceived that the judges had a most difficult task to perform, several aximals being commended, and highly commended-so nearly dishpe $t$ - jda proach the perfection of the prize animals; and again, when one exhibitor is successful in one class, he gets beaten in another, as may be observed in Mr. 'Jownley's case, who has again carried off the Purcell challenge cup and all the honours, with his beautiful cow, Bulternly, beating the best blood in the country, in section 4 ,
and is himself beaten in section 6, by Mr. Douglass, with his splendid heifer, Purity. We observe that Mr. Douglass took two second prizes, in sections 6 and 7, for two heifers out of Rose of Autumn, by two separate bulls, thus proving the superiority of the dam. We suspect Mr. D. has committcd a serious mistake in selling the dam, and Mr. Latouche, of Harristown, committed another, by disposing of her in the first instance. We find that the Earl of Charlemont has been successful in Eevons, and with liis beautiful Kerry bull, Young Rory, has beaten all the Kerries in their own Kingdom.

There were some fine agricultural horses and mares exhibited, and amongst the unsuccessful we think Mr. Douglass's mare, 178, deserves much notice.
'The sheep numbered less lots than last season, but were, on the whole, if anything, superior.

The entries in pigs were nearly one half inore than those of last season, and generally of the most superior description, maintaining their excellence, and, as we before remarked, scarcely leaving a wish for further improvement.

The entries for poultry were rather less this season than last, but the distance must have detaned many from exhibiting, as we missed the names of some of the best brecders, though those exhibited were excellent of the sort.

The entries for dairy produce nearly doubled those of last season, and, in most cases, the quality was excellent.

The implements exhibited were very select, and would have been more numerous, but for some disappointment in forwarding some collectio.as entered, particularly those of Richmond and Chandler, which, though forwarded some time since, did not reach the grounds up to Thursday evening.

## SHORT-HORNS.

For the best bull, calved on or after the 18t January, 1848, and previous to 1st January, 1851, 30 sovs.; to Lord Talbot de Malahide, for his famous bull Phœnix, No. 8. This fine animal ie now in much better condition for service than he was last year, when he was in very high condition; but his muscle was not of that firm yet. elastic texture which is now so sensible to the touch on handling. He was crowded about, and much admired turing the show. He was also awarded the gold medal, as the best of all the prize bulls. Phenis was the prize bull at the

Show of the Royal Agricuhtural Society of England, held at Lewes, of the Royal Ilighland society. at Perth, of the Royal Agricultual Improvement Sucirly of Ireland, at Galway, in 185i, and now, in 1853, at Killaney.

For the best liefier in calf or in milk, calved in 1851, 10 sors.; to James Dumglars, Ahelotaneford, For Purity, No. 59, who also thek the secomed prize, of 5 sous., for Ladylike, No. 60, thas beating Mr. Towneley's buntul heiter, Fiedia, and others. Ladylike was bred by Mr. Lathenele, of Harristova, county lildare, ont of Rose of Autumn, both of which were purchased hy Mr. Douglass at the Marristown sale. Dh. Dunglass obtained for those beanaful hemens the very hatasome sum of one hund?ed guineas eath, liom the Hon. B. W. Egan, tor the purpose of takiug them to America to improve the breed of stock; for which object the Hon. Mr. E.gan came to this country.

## shefr-leicesters.

In the short-horned stock, the judges gave universal satistaction, but the awards it the sheep class were received with much grumbling and dissatisiaction in many cases. 'There is a circumstance connected with this and former shows of sheep, which beally deserves reprehemsion. Sheep for competition should not be olmanented by tappings of any salt. It is common wiht sume exhibitors to put rings with medals in the ir cars ; others put on new leather head stalls, wath lkrass, and other ornaments, which are casily dhetinguishable. We do not mpan to say that hose panties put those on with a view to signal to the jodges whose they are; but hlis we know, that in cases of difficult decision, aingthing tending to -convey a knowledge of the breeding of the animal, will have a correspondent tendency in making the award, as all other thugs being equal or nearly so, blood will give the prepon--derance, as that may be depended on in the long run, and, therefore, in case of hesitation, cause immediate decisioia ; we would therefore respectfolly put it to the committee of the society, whether they should not decide against those trappings. We know if they do the rale will give general satisfaction; and where there is so very close an affinty between animals of the most noted rival breeders, this is the more necessary. In section 1., besides the prize animals, there were numerous pize animals from the llocks of the best preeders in England, Scotland, and Ireland.
swine.
On the whole, the show of pigs was, in point of quality, nothing inferior to any of our former hows, and, in numbers, far exceeded the show of last year, so that the honors were most keenly contested by the rival breeders of the Berkshire wariety, and the lask imposed on the judges in coming to a decision, a very difficult and onerous one.

## mplements.

Some of the implements exhibited underwent a preparatory trial at Malahide, which, for the first two days we were able to be present, was not very sansfactory, with the exception of Bentall's broadshare, which, in the three varieties
tried, did its work well. The trial of ploushs was vely limited, amongst which G:aham, of Smilhfieid, came of vietoriously ; and in the trial of drill-gruhbers, Hill \& Co.’s expandang horsehoe did its duty adminably, as a hoe and scuttler; Lut, tor deeply puiverising the soil, the work pertomed by the two belobging to Gray, of Belfast, was mesceptionable; that of Sheridan's, similar to but lighter than Gray's, though bally worked, and, meeting with an accident, was hext. as to deph. Law s, of Slumlesin, did its work well, but wot so deep as (iay's and 'Sheridan:s, the latter ? eng powerful implements, and very stady, pariculaty (iag's. As to the three and hom horse-gruble ers, the tial was not of a sort to come to at $y$ jus decision, thongh the implements were by the lirst makers of the day; each choked in a short time, fiom the cextime foul:aess of the lath, which had been up to a short time previously occupied by small farmers. The tral of two-horse grubbers, on donday evening, which was simultanleons, in some degree, will that of Samuelson's digging or forking machine, was, to us, qually matinfactory, and looked nom ir, fiom the number at work logether, and the torti-: ous hack each took, as merely tor the purpose of pulling them in working trim, but we learned atter that the judges had come to a determination as to the merns of each.

A further taial (f ploughs was inad at Killarney, in a fiedd from which the hay had bern taken, amonset which Grathan's suit $g$ plengh again entablished its very great superionity. Gray, of Bellast, atter gong to some expense in bringing lurwad his plough, was refused a trial, on the grounds, we understand, of having been thrown out at Maladide, but, as that was undoubtedly the laut of the horses, and not of the plough, we cannot look upon this decision as particularly just. Two two-wher] plonghs entered in competition; that of Balls, Rothwell, Northamptonshire, was awarded a lirst-class medal, and Ransom's V. R. C. two-wheel plough highly commended. The ploughs were teited by Stanley's dyuanometer (Mr. S., by the request of the judger, being in altendance, with the most satistactory results.
The general show of implements was both select as to general nitily, and mosi creditable, in point of material and workwanship, to the manulacturers.

This great national exhibition was concluded by a splendid dinner, at which his Grace the Duke of Leinster, President of the Society, occupied the chair. The evening was most agreeably spent, the speeches good and to the purpose, and we regret that our space will only admit of a bare allusion to these interesting proceedings. Ireland is cvidently improving in her agricultural and other great national interests. May the movement continue uninterrupted!
The love of the beautiful and the tru, like the dew drop in the heart of the ciystal, remains forever clear and limpid in the inmost shrine of the heart.

## MECHIS LATEST IMPROVEMENTS.

In a repnrt of the Annual Exlibition of The Royal Northern Agricultural Siciety, recently held in Aberdeen, at which Mr. Mechi was an invited guest, appear the following statements made by that geutleman at a public meeting of the members.

We are far from looking upon all that Mr. Mechi says and does as infullible, and much that he recommends is, even in England, impracticable, in the present state of things. We think, however, that his expensive experiments in their practical results must be the production of good, inasmuch as they demonstate more clearly the truth, or enable people to detect error wilh greater facility.

After the chairman, Sir Tames D. Elphinstone, had called upon Mr. Mechi to favor the meeting with a statement of his method of farming:

Mr. Mechi rose amid continued applause and said-l think the best way of elucidating the facts I have to brugg forwad is to do so in familiar sty!e, as if we were in conversation. I shall tell you what I am domg on my part, and shall be happy to alswer any questions put to me on the suldject. I need not tell you that my great endeavour has been to make farming more profitable than we now find it. We know that it is naturally a slow business, and rather uncertain; because we are dependent, to a greatextent, upon the seasons; and, if we can, by any new mode or invention, remove, to a certain degree, this dependence, we are conferring a great benefit on agriculture. I need not remind you that we had a strong illustration of this this year. In the north country you must have generally felt it. We know that a great part of your fame arises from your having a moist climate, and your care in availing yourselves of it by grood culture. Your turnip culture is very perfect. But this season you have an Essex climate, and the result is, an Essex ctop of turnips. I am not sorry for it in one respect, becanse it enables you to see the defects of your system ; in other respects, I am very sorry. But when I tell you it is common in Essex, to see a burning sun baking our clays like cast-iron, without a drop of rain for nine or ten weeks, it is impossible, in those strong clays, to grow a lage crop of turnips; but now that I have put the new system of irrigation in practice, I take care that the land shall never become baked. That sun, which was before so objectionable, becomes, with moisture, the best friend I have got. There is no doubt that if you had had the power of irrigation this year, you would have been in a much better state than you now are. This would be attended with expense; but everything in agriculture must be so. I do not think it is so much a question of expense we should attend $t 0$, as-whether it is remunerative
atter it is done; and, I do honestly assure you it is remunerative. Now, supposing I tell you what it costs. I would first ask what is the price per ton of iron piping in this comatry? I paid £45s. per ton at Newcastle, last jear, for thres-inch iron pipes.

Convener Wiatson replied that the Commissioners of Police, as a pubhe sody, got their pipin gat $\mathfrak{f 6} 15$. per ton. This jear it hat been ff 10 .

Well, gentemen, resumed Mr. Mechi, 3 yards of 3 -mech piping weigh 118 pounds; and, for wond numbers, we will call it a hundred-weight. Now, it requires 15 yads per aere-that is 6 liun-ded-weighi of iron-piping; and 600 yards at 6s. Gid. per hundred-weysht would be 39s. That is the eatreme quantity require per Euglish acre. Then comes the guestion of pouring some lead inte the joints, wheln wouk make a probable addition of bd. per yard, and then the werk is done od far.
The other day, I had a letter from Mr. Myles of Bistol, a good practical farmer and a farmer's fiiend. lle has adopted thes principle of irrigation since he saw mine: and he wrote me a letter to say that he had dine the whole of his by gravitation at the rate of two pounds per acre, which is vely cheap inded. The first year it doubled his erass crop. He said he uever saw such a crop before, and if that is true, as I quite believe it is, it is as striking illustration of the benefits of the system. But, to resume my statements, I will say your piping has cost you about 45.s. per acre; the rest you can calculate. At one cend you have a hydrant. I have got one of these for every cleven acres; so that all you see on the farm is tifteen litte iron poits, on 170 acres; and to these I attach, as you do to the fire-engine in your town, a gutta percha tube of 200 jards in length. At the other end you must have a forcing pump of some kind; it may be gravitation, or it may be steam. That of course is a point very easily ascerained. I have two miles of undergound iron piping, and 1 can put on the liquified manure, and plough it in three feet deep and bring the catt home again, for three farthings a ton, a sum so ridiculously small, compared with the usual expense, that I think I may strongly recommend the plan to your notice. You have heaps to make and turn, you have your carts to dive and bing back, you have roads to mend, and there is much expense in preparing manure for turnip crop: but in my case, supposing my bullocks deposit a hundred loads of pudding upon the boards, I fire at it in the morning with this fire-engine, the: it goes in a stream to the great tank, from this it is forced in a fluid form anywhere within two miles, sinks into the ground to the very roots of the crop and is in action twenty-four hours after it is dropped. You lose what you do not see, but feel most seriously. You jose your ammonia, for it is one of the most volatile things in the world, and I wish you to understand what your most eminent men will tell you-that there is nothing will dissolve your soil like ammonia. You use lime, but I assure yon that the recent experiments of Prafessor Wey, and other men of eminence, have shown that lime is secondary in its effects on the soil to ammonia. If you want to improve a bad clay, I assure you that if you take your manure
as it drops from the animal, with plemty of water, and let it at once into the soi', yoir subsoi will be fentijized. The worst clay on your farm, which has grown no hine for years, when manured in the ordinary way, ater a shower of this liquor, will grow even rye-grass in three months. It is a chemical question-your wil is acted on by the ammonia, and is softened and made ready tur ploughing. I have a tield of five areses which used to starve a couple of cows. I sowed that field seven years ago with oats, and pit in the finest grass seeds from Mr. Gibb's of Piccadilly. They were all choked up by the indgenous weeds, and I no more saw them. Last gear m May, I began to wok it with the liguid manure and continued through the winter, and now it is covered with the finest grasses-1 now keep ten head of cante and three horses on it, and they never eat it down. In root crops the same result take place; the crop is donbled. My beans are perfectly level by the application of this flums. In the case of wheat, you must take care not to put it on after turnips, bercause your wheat would be too strung. When you adngt that principle 1 think it will not be necessarry to have two years' crops; I think you will be able to grow it all clover, instead of mixing with ryegrass. The same resuit will take place in your fieds as in your greenhouses and hothouses. Does the gardener when he has heat give his plants water daily? Otherwise they would be ruined, and, the efore, I am particular in bringing these mat: ters before you. Supnose I wanted to put guano on my field, I would put it into the tank agitated by an air-pump, am! in a quarter of an hoar you would see it pass cut in a strean, going down moto the subsoil to the roots of the plants. The great :advantage is that you absolutely tertilize the bot-tom-soil, while wi h the plourh you cannot get down above two feet and a half. I used to lose many crops by wire worm, which is common in Essex, but no insect can stand the ammoniacal shower. The moment you see a fly on your turnips apply your jet, and the insect must escape or die. We put on a hundred gallons a minute all day long, and all night loig; we do not stop even at dimer-time. Fortunately fur me, 1 obtained a little bog, ant here 1 got plenty of water that now is a great source of fertillity; in fact, I would not give it for $£ 3000$, because 1 can make better use of it than I could of the money. You have a farmer at Mirehill, and another in Ayrshire, in your own country, who have made these experments in a prostable manner. That they have received censure it is not to be wondered at, because there was never anything new but was censured. It is natural that we should be attached to old customs, and it is proper, because, ctherwise, we might follow men who ought not to be followed; but I do not think it is your duty to test it by the common rules of calculation-pounds, shilhngs, and rence -and to ro into the question without prejudice. I have reason to know that every man who has carried out this principle has reason to cougratulate himself on his success. If you follow in our steps you will not have the difficulties we had to encounter in a new undertaking, and if any or all of you like to come, or send to me, you
shall have full access to my farm-(loud applamas. I beheve I was the lirst who attempter to semd out all the manure. Last year I hat twenty drad hossen and sme dead cons, hesidea the phdilings, in my tank; 1 had thaty feet of solid stuth, and, thoneh I had an pures at the bottom, I could not lift the mass. Lenckily it dropt into my head to apply the air pun, - I pumpel down the air, and the -olid mater was set monon tull bronght withen the lise of sucthon, and hat thok it away. All hered deal horses. exeept the large bones, have seme the weh a hole the size of my thug ; and I comhl malertake to put you all moto the tank, and in four werehs every bit of you would an tirough the hole-[lang!ter]. When a mass hise tiat is brought mite contact with water you can have no idea of the chemieat athmy that takes phace. 'The yas of fermentation is tahen cane of by the waté; it 'oes not go to arr, but is last up in stute in the water to go of 10 the fentinzing stream. Telants who have large fa:ms and long luases, might make such aramgenemt with the laddonds as would give ataple opportunties for pullmes the system in pactice, and preserve umburd the inlerests oi bolh. Water itsell is mame for arastes, as is well known by those who have meadows, and if it were mixed with the excements of your ammals the results wouid astunish jou. I shall now be happy to answer any questions before proceeding lo my otior suljeet.

Sir J. D. E'phastone-1 should like to know for the miermathon of the meennes, "hat has been the whole cost of the steam-engine and piping on judr farm of one hundred and sevemy aches.

Mr. Miechi-As uear as I cam put my expenses down, and I was pretty panticular, 1 would say that the piping, at the furmer price of iren, cost E. 5:- peracie; the tauk cost $\mathcal{L S O}$; the engine of six-horse power [four would le sufficient] £150; the piping cust $£ 150$ per mile, that is L300 for the whole larm. I would reeommend havang a hydrent for every six mile, as gutta percha tuling is six times the price of iron; the guta percha cost 550 . Then there is the digging, \&c. say $£ 100$ for that. That comes to f6su for the whole tarm. You, gentemen, lise a good deal of straw for maure, and for literiag to your animals. I have all mine on grating, and I lind it answers well. Perhaps you would not like that, but I would recommend it, especially for sheep. It dues well for pigs in hut weather. Bullocks do very well, and I think they would do better if the fore part where their kuees go down were covesed with matling. Mr Mechi then detailed his mode of cleaning his cow-houses, and described more minutely the methud of distributoon of the mamure. He then, in answer to Sir J. D. Elphinstone, said they required two little boys and a man, whose wages would come to 26 s . a week, to keep the two engines going, and put on eighty gallons a minute. One of the most important things, Mr. Meeh continued, is, that the deposits must be kept in coustant agitation by a pressure of air sufficient to force any one of the company through a three inch hole as long as an eel-[loud laughter]. The great secret of profitable tarming was this, to be able to grow a very large increase on a small space of ground. The
great fripnd of the farmer is manuring, and if, they donble their manue. they will then have some hopes of dubthing their crops. Ite would advise them to collect their stave, and direct a jet upon it, which would extract all the soluble manure, leaving clean straw, which would soon rot by the sitne operation. In reply to a question form Sir Janes, as to wiether it wond be advisable to cominne irrigation duing frosty weather, he said that. during last winter, they irrigated peey day till their pipes were frozen, unless their land was so had as to allow it to run off, and, in every rase, the result had been most satisfictory. In fact, the mazure had a tendenefy to prevent the ground from being frozen.

## TIIE QUAOKERY OF AGRICULTURAL SCIBNCF.

Inoffering a few remarls on the subject named above, I leco to disclaim all persomal rethectum. I shall aim ouly to expose things, not persens.And first, perinit me to explain what I mesu by the term science. The general term means truth, with all its attuibntes and adjuncts arranged symmetically. In its restricted or special sense, the term mea is full hnowlelye of an art or business in all its parts reluced to rule. For example, the scienceof assriculture, is a complete theoretical and practical knowledge of all the arts and means, practical and theoretical, requirel in conducting a farm in the best manner. The science of agricalture or scientifie arriculture, does not mean a few skimmings of stum from the well of knowledge, a few imperfect analyses of a few handsful of soil from a few fields; nor are the requirements of science fulfilled by an occasional dip in the sipring of knowledge. The most scientific farmer I erer saw, coald not analyze a handful of soil, according to what we call science. Ife had arepured by long experience and observation a knowledge of soils, their defeets, and the remedies, that enabled him to judre with precision the quality of any voil, withomt the aid of the alembic or crucible. Now, if he had been enabled to rezort to the art of Chemistry, it would have savel him much time and labour in acquiring lis knowle lig ; but still he was a man of true sripence. It dnes not follow, becanse the blacksmith camot explain the suicnce of his use of air in his forge, or why he jlows air among his coals, or why the duing so increases the heat of his forge, that he is not a scientifie blach-smithhe may be and very often is a perfect master of his branch of science, so far as the practice of his own busiaess is concerned. And he can teach others the art and practice, though he cannot teach the mere theory. Agrain, a man may acquire a percect knowledre of agriculure from other teachers, than professors of Chemistry and Geology. To an obsersingeye, a soil will itself give indications of its qualities. I knew a man -I know him now, who, if he were about purchasing a piece of land, would look at the growith of the treas, bushes, aud even weeds that were on the land, and could by them tell what the land was. I am aware that I stall be considered as an empiric rather than as a scientifie teacher, if I, go on in this strain; and therefore I shall proceed to my object, after one more remark, which, if
some folhs consider it a garthian shot, I hope i will hurt nobody. I would give more for one ounce of good sound science, derived from practical experience, than for ten $p$ muds of that derived from ordinary modem "scientific analyses and essays."
I have loner since come to the conclusion, that, as respects the serinee of medicine, there is more quachey in the priseson than ont of it, abundaut as is the supply of the later ; so also in agricutural science, bliere i, ten times :s much quackery in the seience as laught, ss there is in the orilinary practice of andiculture. Jray, sir, what is a science? I have endeavoured to define the term above; but let me try again. Thue science is a linowledge of a man's own business, is it not? If a man knows how to make the nost profit with the least amount of labour and eapital, I imagine. wheher you call him scicutific or not, he posseeses the best so-t of knowledge of his business; and if this be not at present ealled science, it ought to. But here, jusi here, this successful farmer is called from his plow to listen to the harangue of some one who t.tlis to lim aboat the absence of the calcareous, or some other principle in his soil, and the necessity for his applying lime, potash, and ammonia, Sc., 太e. Well, the farmer will say, his is all very well, but I mise good crops, notwithotanding the absence of lime, \&c., and what more will your addition enable me to do !But says the lecturer, let me analyse your soil, and that will enable y ou to raise larger crops.He roes to woik, anaiyes the soil, and furnishee the farmer with a prescription as follows:

Plosuhate of Lime, 100 lbs .
Sulpha'c of Ammonia. 1 ln lbs .
Carbonate of Lime, 500 lbs . de , 8 sc .
Mix thoroughly, and spread broadeast over one acre. Nuw this is all very well, but where is the farmer to set the vatous ingredients? The result is, the lecturer pochets his fee, and the farmer the loss; fur it is impussible, even though the aticles were ever so necessary to the soil. that they could be obtained by all, or even bj anybuly searcely, considening the number of farmers. 1 few farmees may, by extra exertions. obtain some of the:n; some few may obtain one or two of them, bat csmparatively few persons in the great mulitule of farmers, can obtain any of them. I need not calarge upun this subject.This quachery is at this day every where prevalent, in furms as various as the pliysiognomies of the propagators.
Now let all farmers take heed to themselves in this, and learn that the seience of agriculture is that true knowlellore of one's own farm and its soil, that enables him to make the most of it, without impoverishis:s, but rather continually improving it, at the least expense, in labour and money. If lime be accessible to you, try a small quantity on a small piece of land of a fair averago of your farm; if it inproves your crop to the amount of the expense of its application or more, then yon have a scientific wantant for extending the application; if it dues not, then you will have lost but little, either in money or labour. So with all other experiments; try them on a very smalt scale, and cularge them upon success. Devoted as I am, and always hare been to science, I yould
not give one practical experiment for all the "scientilic" theories of Lieber and other chemists put together, for practical farmers' use. The true science of agriculture is to be drawn alone from intelligent practical experience; and in the absence of such, the most perfeet thenies will be of no avail, in agriculture or any other busines. I would by no meatus be understood as opposing the progress of agricultural chemistiy- quite the contrary. $A$ knowledge of it is a great and powerful assistant to the farmer. It will enable him very often to hit upon an improvement in his soil, that years of piactice misht not accomplish. But it is not the main or principal agent that he is to look to. A knowledge of the princi, le of action of all things in which we are engaged, is essential to a perfect moderstanding of the means to arrive at an end; and we should therefore study the science of an art, let that an be what it may. But this study of the science is one thing, and submission to the humbugrery of brazen-faced pretension another. Let every farmer study well and thoroughly the theory as he pursues the practice of agriculture, and this improve and correct the latter by the sugrestions of the former, as he progresses, and then he will soon become a scientific farmer.

On the contrary, we must all take care that we do not carry our opposition to spurians science into the territory of true science. Becanse practice docs not always or oft.an result in the suppont of theory, we mast not therefore take it for cramted that all theory, or even the particular theory inyolved, is unsomed. We must continually bear in mind that all the operations of nature, the growth of plants, the formation of mutrition, everything, are governed by fixed laws; and that the theory is the mere arrangenent of these laws, into a system of practical purpuses. According to these laws, all the operations of the farm musi be carried on to obtain the best revilts, and all our necessary failures will he, and must be, in proportion to our conformity to or des iation fiom those laws.

If, for example, any practice fails to produce the result indicated hy the theory, one or two things will be self-evident; cither the theory is predicted upon false prineipies, or the operator has failed to carry the theory into full etfeect. This fallure should not be considered as evidence that there is no such thine as somd theory. I believe that nine-tenths of the so-called sciemific theonies of the day, are the veriest seientific nonsenee; and yet who shall say which is the tenth, or truthful one?

And now to the main ohiect of omp paper-the remedy for quackery, in all its fom and phasers, where is it to be found and how ondaimed? The answer is plain-in the likeral education of our people. I caunot conelude lhis paper in a more appropriate way, thon by addecoing a few words to all our arricultumat frimeds on this subject. Few men lave mixed more in the society of farmors than I have, amil a an compelled to say that there is no one expenduthere minle by them so grudgingly, as that for the selooling of their sorls. Among ordinary farmers, they "eamon spare them to go to selionl, except one quarter in the dead of wimer;" and even then the cheapest
school, if there be a choice, is sought for. Now to obviate the evils of false, and to secure the anvantages of true science, a liberal education is essential;* the education of all the youth in the State-nothing more, nothing less. Until this is accomplished our agricultural community will comtinue to be the prey of quackery in all its forms.
-Country Gienlleman.
G. B. Smitir.


#### Abstract

* Nore.-Some lime in the summer of $1 \times 51$, (Srpt. 15) we (the Associate Editor) had ocension to write a " ghort essay" on this subject. at the requrst of a correspupdent. We have never logt sight of this grent neen ssity of our race, and when we arr more at leisure, and our columns less crowded, will indite a more lengthy discourse, from the text which Dr. Smma has furnished above, twough we are not quite sure that we shall arive at just the con lu-ions that our veuerable friend himself would, on this subject.-ED.


## AGRICUl.TURAI.

We have been favoured by a gentleman from the Coonty of Norfolk, with a sample of what is rarely seen among the Agricoltural products of this countiy, and of this County in particula, namely, ilillet. The sa:mple in question, the produce of one graing of seed is of Juaniant growh, and measures in height about six feet. It was taken from a field of hillet on the farm of L. II. Ihnt, Esq., Warden of the County of Noufolk, and is, we are assured nothing more thon a iair specimen of the whole crop. Mallet is an eveclient aticle for focider, both for horses and neat cattle; and the seed, which is very abundant, is the very best winter food for poulhy that can be given. In such seasons as this, Millet would be particulaly valuable, for while the donght makes a light hay harvest, Millet seems to floursh best under a scorching sun. Those desirous of testing the advantages of Millet will have only to make a personal application to the gentleman above named, and, we are auhhorised in saying, he will be most happy 10 gratify them. When Mille is sown for fodder it should be done ahout the Sth of Nay; and one $p$ eck of seed is sufficient tor an acre of gronndthe crop being taken of like hay, while a little gecen. When wanted for seed, half a peck is ill that is requred, and of course it slould be allowed to ripen.

We have also received a sample of Wheat from the farm of J. B. Carpenter, Esq., of Townsend, a portion of the same erui) which is now the admiration of the Camadian deparment of the New Yerk Exhibition. By a leter to Mr. C., from the persen in change of the Department, it appears that repeated applicanimus have been made for this wheat by Americans; and hat small quantities, of not mare even than an ounce, have been earerly sought, for the purpose of propagating this description of grain. The wheat is a fme specimen of the white flint kind-beamifully bisht, plamp and even-and doos Mr. Cupenter, and the County of Norfolk, mueh creditbrilish American.

Tre best investment for a famer is live stock and plow-shures.

## rownsimp of mamiliton farmerse clecb

## FALL AND SPBING PSOUGHING.

At the meeting of the Township of Hamalton Farmens' Club, held at Dickson's Inn, Court
 Wright, E-y.: President of the Clab, in the Chair.

Prevem,-Messis. Forsydh, Masson, Bomrn, MacIntush, Bennett, Ball, Alcorn, A. J. Burnham, Richardson, Wade, Sutherland, Burict, \&e:, \&e.
The sulyect for disctiosion was, whether it is most profiable for general cropping to plough in the fall or the spring. Mr. Sutherland intooduced the suljeet by reading the followith : -

## ESSAY.

Man in the present race for riches is fast forgettiag the old land marks of prosperity, and " apeed the pluagth" is now abamboned for speed the ship, up steam or hoist sail, and away to the gol. 1 digrams. Speculate in Ralroad snek, shave notes or lecture on Phenolory, anything Lot dras out exstence at the plonat tail. How oftern do we hear the remark-wiy the majowity of farmens know bint hate more than the horses they drave. It is true the occupation of the farmer requining 10 most cases has undivided attention, prevents him fom making eracefal manars or showner extenor acemphishments his particular study, jet he will be fond quite as much imburd with luat noble semiment "do to others as you woud be done by " and as much energy in his calling as those embarked in other pursints.

The dheoveries of the present centary have pertaps done more for the sremeral prosperity of the world than all that have preceeded it, and although the farmer has paticipated largely in the benefits arising from these discoveries, they have been of sull greater adrantage to the commercial mam.

The steam engine whether used by sea or land, has done somuch to "amihilate time and space" and hats geven such an impetas to brineses, and created such a demand for manaal habour to prepare the way for this miohy ansiliay, that the farmer will have to :lonble his diligence to keep pace with the tince. The man whove serviets you once readily secured for 2.s. 6od. per day now dombles the dose, or if you demar tells jo: he"s oll to the ralroad or the dixgings. One of two things is self evident, that f the famer has to pay 59) per cent. more for the manoal tabour of his farm, he has got to tax his energy be find appliances to reduce the cost of this item or plity a lusing ratme.

These pelimiuary remarks may modouht seem irrevalent to the subyeet to be diecussed, hot my objeet for introducmig the mather in this way, was for the parpose of alrocating the intodarion of labour savilus machines on a more extomive scate, knowing how tardy we often are in procuring implements we even feed satisfied will be of incatentable benelit to us.

The question mider disenssion, whether it is most moinable to general eroppiug to plongh in the fall or spring, will I am aware have advocates

For both courn's, but athoneh I lately head an intelizent famer express hivsurp ise that people pluaghed so much of heir land in the fall and thereby expusine it to what he considered the injurions ellectis of the wimer's forst. I have no doubt the m.jowsty of farmers will advocate its adoption fiom the impresion that the action of the wint r"s fowt has quite a diflerent effect from what the above party supposes. The allocacy of fall phoustiatg will of comse admit of vatious qualificalionsastesats its adoption--and in some canes it may not evera be didvatitevens, but I feel ennvinced, that when done at the proper hameand on this point I hope sumethius will be saidit will not only be fonad most expediem but most banefieial. One of the objections to sowing on fall plongting is that he land is frequently baked so that a good seed bed camot be gor, to comnteract this I would recommend the free use of the cultivator either before or after sowing, I have Hied both ways and ford them answer the parpue e equally weil. The cuativator I have succe ssfully nse! was manafactued by Brace of Dumfiies and is a cledit to Canadian enterprise, it has the advantare of cleansing itself bettes than any thing of the lind intodaced foun the States, and is more light and edsily tamalled both by man and horse, one span of horses will horourhly pulverise twelve acres a day to the depth of three or six iuches.

I thiak by romaling the rintres well up in the fall with one plourling-and cuhtivate as stated in the spring it woald be better that twice ploughing which is often adophed-and by this means you would have fiesh soil to act on your crop, whereas when you plowghtwice you are exposing the very suface employed the previous season. If by the us: of the cuitivator me ploughias can be dippensed with atmother advantage would be that the land could be left undisturbed until a later period in the fall allowing the cattle some advantage in the run of the field. In a section of country where fall wheat is extensively grown thene remaks wothl not be applicable, but iat this section of the comatry whed the greater proportion of the cereals ate sown in spring the matter is more mom:mons. Taere can be no donbt fall will alsays have a preponderating claim over spiug phoushing independent of its merits-becanse the apidily necessary to get our crops in in this conntry in the sping, will always make the fimmer dexinons to get as much done beforehand as passible.

Confident that I can do little more than introduce the subject, I now leave it in the hands of those move capable to srapple with it.

Mr. Masson said, te was sury the Chairman had callel on him first, ds he wond rather have heard same of the others speak before himself. Ill that he woald like to say was about plougbiser, had it aot heen for tall phourhing he could not have got alensy ut all-sern if he hid had men and husec fir nothing, it would not have enswered him at all to plough in the spring. He had ofen thousht of sowing srean crop on fall plowghing, jut cohtivating it well in th: spring-as it was long hefore the land was sufficiently diy in the spring that it was dhtii.u!t 10 reduce it tine enongh. He would eren prefer fall pioughing for badey
but he would cultivate the land in the springjust sow on the Barley and culti"ate it in, the Jand he found was a dry snil. It v as often said that fall ploughing did not do on !eght land, but he had fomd as far as his experience went that it answered as well on light as on heavy land. Twelve years ago he lived on a farm in Haldimand, and people toic him he was spoiling his land by plonghing in the fall, but when harvest time came he reaped thee times as much fiom his fall ploughed land as his neighbours did from their spring ploughing.

Mr. Bourn said, that in regard to heavy land he would give in his adhesion to what Mr. Masson had saik, hot with regard to lixht land he had his doubts of the benefit of fall ploughing, he had tried it on his land and he found it very difficult to get grass seeds to take on land that was ploughed in the fall. Fo: Peas he would not plough in the fall. Ilis spring wheat had tone best on his spring ploughed land, and his grass seeds took far better. He had never used a cultivator bar he thought to cu!tivate with one was very similar to spring ploughing, on heavy land he thought fall ploughing best.

Mr. Maclntosh said, he was not aware that he conld $t$ row much light on the suljeat, he was of opinion that what was good for the goose was good for the gander, he therefore thanght that fall ploughiner was best for both kimds of land, he found that on his light land fall plo ughing answered far hest, it both enabled him to get in his crops earlier in the spring and he thought that it checked the growth of tiastles anti oher weeds better than spring ploushing. Contrary to Mr. Bourn's experience, he found his grass seeds dad best on fall plonghed land. To p:rvent his high fand from reming down with the heavy rains he ron two on three funcws across the hill.

Mr. Bennett said, he was mot much of a farmer, he used to live by his wis, but wetting afraid he should starre for want of stock, he had torned his attention to farming, he had paid some attention to the subject and he though fall plonghing much the best, he foumd that when he planted Indian Curn on spriug ploughed hand, it was mostly ent off with grubs, but when he plamed on fall ploughing it escraped, he sowed his spring wheat on fall ploughing, and it was as grood is any he saw, fabl phoughng emabled the farmer to get in his crop earlier in the spring.

Ma. Bab.e. said, he must say that he had but little experience in farming, and on heavy land no experience at all. With tegand to fall and spring ploughing, he was of opinimen that ? f land was perfectly clean it made very litule dafenence when it was ploughed; but if 11 was drey, it did best to plough it with a good deep fanow in die fall, and then pluagh it very light in the spring. When land was very light and plowelied wo the fifl, it was apt to bate so solid, with the heavy rains, that it was hardly posibto to ewer the seed withont a plonghing in the spring. He had never hispd a chllivalor, as there was too many nigger hrads in their land on the phains for a culavator (o) work.
Mr. A. Alcorn fail, he had had a genod deal of experience bohth with hall and spibiy plonghing. For spring wheat, he prefered ploughing
his land twice on the fall; but for other grains, he plonghed all the land be could in the fall, and as much of it over again in the spriug. He was of opimon that (other things being equal) the oftener the land was ploughed it gave the better elops. He found that his crops was best on land that was plonghed in the fall and then over again in lle spring. He was of opinion that sping ploughing was tar bether for keeping down thisties and aher weods than fail phonghing.

Mr A. J. Burnnams said, he concured in what Mr. Alcorn had said. He would preferto plough his land in the fall and then over arain in the spring. except, purhaps, for spring wheat, that, the thought, did fully best on fall ploughing.

Mr. Joun Wade said, he though the essay we had just hear! was sely erediatable to Mr. Sutherland, as he thonght it very well got up.He hat had a grod deal of expelience for a number of years whith both tall :and apring plowehing; but there was so much difference in farms, some $\because e t$, some dry, some being high, and some low -so that what would apply to one farm might not apply to another in tite i:rmediate neighborhood. For sping whea', his practice had been to prepare the hand in the fall, and if he foum it much baked in tha spring, he went over it with a cultivator; if wot bike! he sowed on the fall plonghing. He thought that we were on the eve of an entre sevolution in our plouging, since the attemtion of mechanics had been tarned to the improvencat and invention of farm implements; that, he thought, would in many canes supereede ond old ones. Last spring he had got what we called a "Michigan Sod and Sub-sinil Plough," which beat anyihing of the plongh knd he had ever seen, - his plongh had two monds, the one groing before the other, the fitet momh pariag of about wo inches, and the second mond turning up the sol seven inehes deep (ompletuly over the sod, and thoroughly polveizing the soil, just as if it had been done by a spate. He plonghert down ten acres of hand last sprome, with this plough, for peas; the plough cuta a mrow about wemty inchess wide, and bine inches deep, and there was not a weed come up except that pest. the Camada histle. He had just finished ploughing the land for peas before the severe rain som that we had in the sprine, so that it was "caly a week before be conld get the peds nown; be sowed them with the drall, and had a very fair coop; now he was preparing that same piece of land for fatl wheat; he tried the Scooch plough on it, and in just tuned it up in gecat lamps; lie then thed his new plough on it, and the womk it did really surprised himedif, it sothorenghly pulverized ihesonl and mate it so fine. He thought that his plomgh wouk do bether work and more ol it than any plough ever made in Scothand; he ased tho lances mathis phagth. He thonaht a grod cultivator was of very ge cat importance on a from; he had got a new cultivator his seasom that was groing to brat ang thing yen ; it rans hree, four, or five ineloesdeep, and cons up evenshing in the shape of werds. He thongh lhat with :culivator, surh as hehad got, and a Michigan sod and sub-soil plough, we micht disprone with sommer fallow nearly ahogether. Thoush he comsudered that land wes best prepared in the fall for spring
wheat, yet he must say that for the two last sea-som- part of his ground was ploughe! $i_{i}$ the fall and girt in the spruge, atad he could tell no ditference in the crop. He thought that since the Weevil came among us that late-sown epring wheat reseaped its ravages better thath what was suwn eatly; consequenty, il late sown, another phonehne would be necessaty.
Mr. Forsyti salld, he liked to plough all he conld in the fall; when preparing for spinig when he phomerhet as ston as he could after hatvest, and ploughed agrain late in the fall. He had ined bolley boin on tall athed sping plonehines, and he thought that sown on the spring ploughing wat rather the best, but mot much. Fur oats and geas, he would plough m the spring.
The Puesbent cail, he would not detain the meeting liy a lensthened summary. Alhongh There was diversty of opinion upon minor ponts. affecting the questivn, it appeated the pincephe of talt phoughiner was fully upheld, espercially on stiffsoits. The reasons influencing this opinion a pheated to be-the metiorating effert of hostthe neressity of earlv sowing-the shorthess of our sered tume-the filless of the team for fall work, \&e., any of which might be a sulficie:t indune ment to keep the plongh from rusting in the fall. A necessary atjanct to fall ploughing is the a-e of the cultivalur or "scanlier" iti spinge, proferable io plowghing, for two very impuniant tensons-it leaves the fin-ly pulverized sublace in the best possble state for a seed bed, and is capabie of deing tive times as much woth. Tiue Amphements deserited by Mr. Sutherland and Mr. Wade ate, no doubt, of the very best comstraction. He had ased ti.e " rriangle" steel teeth, and found every purpice answered. O then, is certain, without a cultivator, the benetiss of hall ploughing can never be fully reaized; and inne semplened who have not used this indispensable implenent mus make ap their mina to gel oue. Tae phourh so hisfily recommented by Mr. Wade, com-tiarted as it appeas upout the primejple of the "Chinese troins," misht be Capable of doung its wonk in a busmess-like manaler. bun he masi dissent in toto from she pinciple sought to be established by its use-lo hury two Enches of the surface, comtaming prob,bly ten times the quantay of vogetable matter, ander suven inches of sub-soil, appears so contary to commonsenve, hat he conhd not be intaced to give this specimen of Yuken ingenuity even a
 Mr. Ne wisu mighe rest sati-lied hat a good iron Seoteh phounh would be wamed a fea years Emger. He mast cougratulate the meentar upon havare the impurtans subject so ably introndaced by Mr. Sabserfanl, and musted the dise ussion wounta prollace goon results.

The thanks of the clab were given so Mrr. Suherizud for his essay.

Tue u-xt mering of the cilub was appoimed to he hehd at Dieksain's Lma, Court House, on the hay Saturday in O. other, at wo elow.

The sulyect for discusstons to be the constan tion of femees.
Mr. J. Wade to intromese the subject by an ensiay.
walter ridderl,

- Cobourg Star.


## The Angitalturist.

TORONTO, OCTOBER, 1853.

## PREPARE FOR WINTER.

Old winter is again coming, with his piercing frosts and snow storms. If ever there was a year when farmers should look close to the managemement of all ktuds of live stock, that time is most assuredly the present. With high cash prices for every article raived on the farm, and only a very moderate supply of hay, oats and roots, the economical maintenance of domestic animals through the approaching long winter is a matter to the farmer of the utmost importance. Our object is not to write a long, elaborate article, but simply to give timely warning to our Agricultural readers, and throw out one or two practical suggestions.

First,-Pay special attention to the comfortable housing of cattle, by the adoption of such expedients, in the absency of warm, substantial buiflings, as will shetter the animals, from the inclemency of the weather. This is the surest way of economizing their food and promoting their health and growth. A:a animal secured against wet and cold, in a clean and well ventilated place, will do better, that is grow faster and lay on more fat and muscle, upon 25 per cent less food, than under the painful circumstances in which too many cattle are placed during the lons and severe wincers incodent to this country.

Second,-Regularity in feediag is a point of more importance than is generally thought. A smaller amount of food punctually supplied at regular interrals, with abudance of water, dry and clean bedking, will better support an animal in a thriving condition than a much liuger guan tity irregnlar! given, and under opposite conditions.

Third,-A rariety or mixture of food giren (o) stork is both ecouomical and saluary. It is astomishing how a few turnips, mangels, carrots Sc., in addition to hay or straw, promotes the beathy action of the syriem and a vigorous growth. Evon the mere loraing of grain, or the cutting of hay or straw before given to stock, is an economical and beneficial practice; and
the cocking of cattic food by boiling or steaming, and mixing, has been found to promote largely the same ends.

The few simple suggestions, if carried into practice, as circumstances maj allow, would be found exceedung beneficial to farmers, in enabling them to keep their stock through the winter with economy and succrss.

## THE EXHIBITION CF 1853.

We have delayed this number in order to take some notice of the Provincial Exhithition which was hel:I at Hamittom, on the thi, 5h, 6th aud 7th insts. The weather though threatening during the first day, cleated $u_{p}$ on the second, and proved highly favorable. The show was a most successful one in all respects. The official Report, Prize List, and Presidents Address will aprear in the November number. $A$ general description of the more promineut whects is all we can give in this number. The specehes at the evening disenssion, and the resilutions at the ammal meeting will be fomad interating.
The site chosen for the Exibition was a delish'fur rolling firld about ten minutes walk from the market place and finely elevated. Upwardsorionatre were enclosed for the oceasion. The impleme weather of Tuestay, and the wet and boisterons appearance of Wednesday retarded the progres of affuirs a little; but by Thurstay monning the groand preseated a very fine apparance. Talsing it as a whole, the lehuivion was a considerathe improvement of that of has year at Toronto, although in some things there was nut so much dis. play, and in others no improveneat uron there then exhibited. The first thing which athated the attention on entering the gromuls was a homedsome first class Carriage for the Great Wextern Railway to the right of the gate 'jhis wat one of six eariages mate ly Mesers Finhe, Williams \& Bramard, for the Geat Western hands ay Company: and is a marnificent amair of the kime. It is abovit 43 feet lons, by nine feet inside, with tourtern double seats and two single seats on cath side. The seats are very finely staned and coveren! with a howy plath. The bates of the seats swine upon strong brass hanges on as bo allow the cars to men ether way withont turung 'Hise nimbous, finied with fine phate ghas, are mate to shide wa, and are pros tected by a jaloase frame, which also slides up at pleasme. The flow is coverel with a prety nil eloth, which gives a very comfortahle appabsace. The iron work of this and the other carriburs mate by this firm, are mamfatherel he Messers, Mer hecston \& Co., of llamitom and is hirshly erctitable to the estabishinemt. Tha Flomal Mail, which is at all times the priacipal atheretion, was sittaned on tha summit of the clevation. it was
 Hall about 2 feet wule the who 1 farth, and two Side Malls also the wimle length of the inilling The castern Side hiall wis devinted chi- Hy to tho flowers an treetabes. There was a guod dis, ${ }^{2}$ ay ol Annuals and Verbenas. The display of D.hhias was not so areat. There were seme very tastefully done
up toble buquets Three was a very pretty horal design by Mr. Kerr's gat dener, filleel up in the different plot "ith Astors, Mangold's, $V+1 b$ nas, \&e. There was a fine box of Atnuals hum Mestr, Thomson and Muray of the City Garduc, Hamilton.Julge - Camphen, of Nigara. had some beantiful Corlioctmos. semingly the same that figuret at the Howtulualal Show in Tometo hately, and received 0 mula meried paise J. F. Moore of Hamilton, hat a very fine dishlay of Balsams. Eueas Kemnedy had a vers good e. Heceicn of glants from haswa priare garden. Mr. Flemang of Toronto, had a pretty fiar collection of Greenthouse Plan's. Thmas and Marray had a relyprety foweling Ja-mine, vely :areful and uitable for a hull window; it floners at the early part of the smason and gives out a powerins and most dehghtanlly f agrant odour. Thry had a line specmren ol Vermica, arda very pretty (iesnera Zebarina, a phant of beautitul tollage. The Torcina Asumea f. om the same garders, was a very fire specinern, wi ha bratififl solt blae 11 mulous Flower. It grows easly and dinwers freely, but iequires ag god deal of heat to bring it to perfection There was a very g'aceful Japrin line trom the same ganden. This plant is well ada;'d for a conservatory. The Lamama Ewomp, a flower something like a Ferbena, but nore varegated. The flowee firs: be comes onange, It then tades to a fine sof pink, and from that comes mealy to a whte, the flowers appraring in all their aiferent stages in one plant at the same time. It thowers trom the bergining of Jnue all the way to winter, and is we ladated for bedding out it las be en ouly lecenty introduced. Thee was ure plant, a mative of Califorua, termed the Zascancha (ahbornice, with a be uitifl sarlet flower resembing a fuccha somewhat This phant is alsi) well adapted for beddary out. J F. Moore exhibited a very beatily India Rubber plant, and ore Urange nee with one specmen of the thit upon it. There were lan fine specimens of Aloes, and a very fine specimen of the Abmint si iatum with a beanifill stiped well shaped 11 wer, a rons'derable waipty of Coeri, and a rather curions plamt-he Echin Anthony Zibarma-from the same sa, den On the opp.s.te side of this Ifall thre uas a lange display of Cabbages chiefly from Tomento gaviens. There wrere a'so Squash's in greal valiety, cellery, laree B-et. and also some remakably tine Table Beet. Mr. Lesshe show da srool collection of Peas and Quinces of very tine ymaity. In the W, stern hall here was a mosi may.ificert display of whin and ed Unions, the timest by har hat has yet heen exhibited at any of our Fais. There wre some fomarors ol a lase sya, but not very 'empting. Ther- wert some refversull ones Thee wai a yood disphay of white table Turnips. The Capsemms wee a very excellent There wre some grod Caulitic wers, wo heads especa:lhy wery tine. The Churory hoked well, is was chathy frim I'ear's saten, Yug ge street. I he Camens were al-o a gond disply. There wete there busiets of varectes of vergelably. The Baron de Lousueuil displaye s sate cey fiue berg Planls of a harge size. The Water alelons wee rathe an ondiuary displity. The Xomal scloob, Toono, whbited spe imens of the puduction of the Expee ian unal garders. There were Cabbag's, (ats, Bunne Potitors, Com, Catrote, Beels Mangel Wazen, Tarnips, ©c. A.e., with a fill report of the ganaity raised, and all the particulnirs comerted with the vainws specimurs. The Paches were a very gool? display. There wero some excrlimt buthonse grajs from V. II. 13 ntoms gerdea. Enowh Tumer, mad W. E. Jarvis of Turonti, and W. P. Mch nen of Manili n had also some line sp cimons. There mas a very pinditic Mre imen of Grape, we think frum Mr. L.ewis of S.ltfeet. There were upwards ol forly bunches on ens
vine about three feet long. Mr. Itumphreys of To. ronto, txhibited an execllent basket of sweet-water Giapes. This was decidediy the best specimpol of that kind of G appe in the exbubition. There were j0 different entries of "twelve Wiater Apples." The wiuter table Apple, mode a good display. The Ribs'on Pippins were very fine, there were some excellent baking Aphls fion Lesstie's Garden. There were seven entries of 20 viarieties of Applee, $s$ me of them wely fine, from Lessilie, Tarner, Buchley of Ii.maton, Fuler of Hamilon, and others. Dr. Craig $\dot{\rightarrow}$ sun disphayed some fine specimens of Dited Plants, very well prepared. Thice were on'y a few of them diplaved, the gieater part of them being left in the Purtolio. The cen re hath was more especially devoled to the Fine Arts. At one curuer there was a beantiful display of artificial Flowers. Miss Camplefl of Du:dis. exhbited two vases of most exquisitely fitiburd Wax Flowers. The leaves of the Flowes wer: all formed separately by hame, and some ot the lilowers were most magnitie ently formed. Mrs. Beck exhibited a specimen of the New Lily-the Victoria Resia. Miss Muton of Dundıs, Mrs. Ruthven, and ot.ers, had also specimens of the same kind of work. Mrs. Beck's Wax Fruit was very good. There was a curious spocimen of ossitication sent in by Ca; tain Jichol of th - Gra:ge, Hamilton some eling of the deer species. Mr. Stenner, Hamiton, exhibited som. Dentistry. Mr. Date of Gath, had a large case of Etre Tools of very tace finish. Th re were two Eleciric Magnetic Machmes, but we could not learn who showed them. There was an escel ent case of America:a Cutle y. The Pen-knives seemed beautifully fanished. John Baine of Inamiton, exhibited two Siws very tastefully onnmented. There was a box of Na've Copzer. A model of a Steamer by W'm. Brown Ship-carponter, Chippewa, and a mot.l of a ressel with an improved stern There was sume Powder fom the G.ore Powder Mills. Mr. Morrison, Jewelir, Thoronto, exhibied a case of very pethy Jewellerv. Messrs. Ruthen and Watson, James Street, Ifamil:on, had also a very go did display of Jeweflery, consisting of Fioner Vases, Cruets, Frut Baskets, Egr-cups, Liquor Stamis, Camdestichs, Toast Racks, \&e., \& C. Thare was a harge ase of Stufed Birds. P' T. Ware, Wathamer. Itamiton, exhitit ed a beautful eightiday Gold Watch, made in their uwn establibhene from the raw material This watch was se!d tor S350. Messre. Ammous and Ramay had a number of schom B ohs very well gut up. Bunes of hamiliom, had some fiue specimers of Binting. If tuhson erhibted wo volumes of Fleteher's Bible, mast magniticently bound. The edge geldin.g was done in a superior s'yle. They had also 3 Bums's Works done in an illuminated bindiag very elab rately fiuished. W. H. (xlluseco, exhibiteila case of very fine Furs in Capis aud Gamblite, Ec., \&c. Laws on \& Broher had a case of $m$ de Clothes. One white embroidered vest looked very morty. A. M. Titue of Branford had one suit of black, vaiued at El .5 , beautifully manie up. The s! reve of the comt were lined with a new kind of Franch serge of an orange colonr, $\mathrm{G}^{\text {nitled }}$; t!e inside of the coat was linen withsulk and beateifuily quilted The bathon of the pauts weie don- up with hair-cloth. There was a cont and vest of Canadan clote, vereb amanly stitched. We beliere these came forn GrumbyThene was carpeing , mad yan from the same quarters. but no n-mes were attach od. Mr. Serord whib:ad a case of hats and furs. These were some excellont specimens of blankets and than ds from Mr. PaterGons tachory, at Dundas. Mis. Burciz had a very pet. ty knited curtain. There were knited socks from Mirs E: D Mune of Erimbale. Mre Puter Jones of Brantfo.d, exh:bited some silis pach-work quilt - There was a great mariety of crotelot work cabboid. ared table covers, from Miss Sprager. Milhiaery in
great abu dane from Law on \& is othe: and from Hee same honse two tibliy fintsod hadies' sacks. Raised wrof fom Mo. Fanclengh, of Hamhllon. Mrs. H. M. Spenerr, of Dundas "xhtuted some beantitul crotc et work in caps sud collar-, and Mrs. Panton, of Hatulton, had some very preft ly baided chilis dresses. Mrs. Silv.rthorn, of Gakville, exhib ted two prettystan honnete, of dom-ctic m.mafucture. There
 cuted by Miss Magaret Sinclair, of Brockville. There was a crochet wo.k design of tae fomatain and part of tho inte: hor of th. Crvital Patace, at La monn, re $y$ well executed. Small zofa pito ns by the Misses Hils \& Canpunt $r$, of Hamiton. hais"d worsted wort, beantifully ex-ruted. some pmbroidered shints of a suprior qualhty, w. re also exhibuted. Thele was a very pretty emooindered vest. eshibited by M. Cozen. of Mamiloon. Mrs S:ot Burn, and Miss Burn of Toronto, exhbited some exquisitely embroi eered "ork. Miss G illarailh, of H.miton had some aised worsted work, and patch-work. There was a bautiful down quilt. a very expensive artic:e Mr. Fieming, of Toronto, exhivited sume adminable spectmens of Wood Carving-one, a harye figure of Time, was well executed,-but onie bes.de in had con-iderably mone atractions fior the public-it was at litle man in the Tam O Shanter. on Souter Johnmie stile, with a botte in the one hand, and a gloss in the other, in the act of fiiling up the olass, the liquor beng represented as coming out of time bontle; the countenance had rather a mithtul appenance; he was styled an advocate for the Maine Law. There was a very neat Dawing on Wool, by Lacius O Brien, of Turonto. The end of the liall was envered with landscupes, portruts, and drawings of wirious linds.Some pain'ines of Imdians, atter Cation, and sweral other specimens by leter Jones, were very athactive. Mr. Red had several well executed portatits and lind-apes. There wete some prety water-colour paintmes, by Wandesford. Mine, the Daguere ean, of Latuilton, had a la:ge case of finely executed Daguereotypes. There waraprety Monochrumatic dawmy, by Mrs. J. Wetruhall, of thamilt $n$, and two fianes complosed of artidicial leaves, by the satue 1. dy. Hoppmer Meyer, of Toronto and Mis. Meyer, exhib.ted a geat variey of Miniature P.ntruits and Crasons -two of these, a purtrait of Mr. S richler.d and a pertrait of Mrs. Fitagibbon, were exceedingly we! executed. Amongst Mr: Meyer's collection perhaps Windsor Castl: was the happiest. Mr. Pell of Toronto had not much of a display in his line, only some few frames, wery well execuied however. Befirew l-aving this Dall it may be stated that it wes well titted $u_{P}$, and well arranged, anc ery tastefully festooned with evergrecus. It puved aliowether too shall however, for the immense crowd that entered the grounds during the day, There would be apwards of 30 , (wn) visitors altogether from the time of opening, and when it is considered that several thonsands of these were desirous to see this Ha:11 at one time, it will be apparent that it was nueh too smadl. There was also a great fathe in its construction in not having nore outlets. We imarine, that this one would have bea a considerabe i:nprovement upen last sars, but with the exception of a iitule extra stze there was no difference strietly meaking. It is we hopel when another Flomallall is to be erected that a Prize of $\mathfrak{s e j}$ will be oftered fint the bat rough design of a Hall to ,rive size, confort and way ergos. In the bope dhat this iden will be taken in we proced to the

## TENTS,

Two of which were deroted to the Mechanien Arts, the other to Agricultural Produce In the Henhanical tents we found on ent:ring a very fine
display of coopering. Benjamin Fuller, of Waterford, Norfoll Counts, eahibited a portible boriag machine, well adapted for carpenter work lt seemed to bore easily and worked wihngreat rapidity. He had also a patent sliding gate so constructed as to open with the weight of the horse feet and thas prevent the rider fiona diemoun ing t- perform that operation. lt looks very prety in the model, but it is not likely to ret inti, general repute. There was a time sample of mails from the llamilton Spike Works. Lawrence Femmon of Port Rubinson, exhibited a felloe-cutter, to be drivon by water power. The principle was simple, and as any kind of circular may be cut by it, it ean be ensily applied. Its cost is sio. There were patent scales but no name attached. William Roberts of Port liobinson exhibited a small box containing samples of the varous woods grown in Canada, all carefully named in their techmical order. There are sisty different pieces. The sande person exhibited a saw ior measurer made by hinself. II. Lossiag of Branford exhibited an economical Churn and Washing Machine combined, valued at \$12. Mr. Vausickle of ()hawa had a patent rotary churn, simple in appearance, and said to be better adapted to the process of churning, as the rotary motion gathers the butter and also breaks up the eream better that the stationary chum. He selis them at $\$ 8$ a-piece. There were everal Stanw Cutters in this trint but we saw nothiny new in that line on the giound Brown and Chulde exhebited three b. jes of Öven Shoes, made at heer estahishment at Montical. The person in ation lance stated that they turn out $1, \mathbf{J}^{\prime \prime} 0$ pairs of sur h shoes daiy. Joh:a Todd, of Bambord, exhibited a widel for a Vertical saw Mill for rough umber. Une advantage which is claimed tor this construction is. that it cur cut back as well as fornard, the saw haring teeth on both sides.and also at, imp rove ment in the cariar". Ma. Crombie, of Gal'; eshibited a very heary alule Saw, fited up on the od piluciple There was a good Dilline Machine here, and the Old Flas harhine was displayel. Ihre was a very veat, will-finishrd buggy; sulp posed to be fiom Galt. There was also a com, lute Set of laree Bellows, carable of bouing for four blach-miths fire at one rime, and wo ked easily by one man-Cost about £30. J. P. Prontuey of liamiton exhibted a very pretty, wel-finish. dFam:ly Carriage. It wac made afer the phan of the English pivate carriage to turo upon it: own ground and was prenily stuffed and quilled inside. It was waluel at Llea Mr. Gartshore, of Dundas e chabited a steam Eugine, of 15 horse poner, mannfachured at Duntas and vidued
 fine display of Cooper Wiok in Pails amal Buchets Butter D shes, and D.inkiag Caps. His cups were exceedinely well mad. In the ather tunt, Ifr limkindd, of Toronto, had a exc-rlent dicptav of Whips in vailous momiti, gs, some of them valued at $s$ ? a-piece, and some at sis There did ant serm to b. any other whips on the sromel. Wiltiem Gib-on, of Last Maker llace, Tormob, bata Sat of very strang. substantial ilarness, wom tezo Jacques $\$$ Hay hat a French Bedstest, very elaborately crnamente. with carriag in natural itowers. It was ticketed for saie-value, 532 10:. Thry had also a sola, and ; most magnibicut Sitchoard, ant a Set of Daning roum Chails in mahoway. of a beatian fal lern.These wre said in late bien made to arder for $x^{4}$ ha Yonng, Eqq, Hamilton. Fiefd \& Datidson of fames Erret, llamiltun, hid a very foe surply of Sadila, y of vari us linde. There was on beautiful side-saddle, fincly quilted; there wes a summerset saddle and seremal riding sadalles of excellent wortmunship; horse cloths, team havess
and two sets ef single harness. They had also tro trmis, one very fantastical $y$ fitted up and bornd with silver plaited hoop, valued at sibu, another with brass hoop less fanciful,-cost s. 40 . The Chippewa foundry had a large dioplay of very fine stoves. Beside these stowd a newly invented tin verlector or baking apprazatua, made by dohn dean of Vienma. He guarrantees that it will bake seren loaves of heat with one small bit of hardwood, mad warmints to cook all sorts of meat ceonomically and well,-cost \$12.

## cattie.

The show of cattle was good, bo:h as regad duantity and quality, ea h different bred being well repmesurpd. Anoong the Durhams were a number of fine Bule and we think it would be diflicult to give a d cided preference to anv one animal, at the sane time we cannot bui mention one shown hy ha. Wals; of Port Ho;e, and "Nurth Star", beluneing to Mr. Jones. Thiele was also a very handsume vealing extibited br the Hon. Adam Fernassin, which tulty sustaned hi- char. cter as a sure ssful bieeder. Mr. Passons, of Guel, h, alsn show ed sume gond 'oors as d Hefers in the class, andalso among the Grate cat le. There was al-o a larye show of Devons, Messrs. Ferrie and Typ, as usual standug well furward. Mr. Lo. Ke, of St. Thomas also shoued s me ood an mals. Mr. Fr rrie had tho beantiful twa year old Muils. one of whit hue believe he has sold fur $\$ 7$. . Nir. Ewart or Dundas, was the latgest exlibitor of Ayrulire a athe, haviug on the gromed clesen head, all well worthy of n tice. We ubserved alsn some veey fine ones shuma by lir. Welstir, of Fergus. The Forign Catle txhbit d yere not numernus, lat of good ganhty, 'h noth the $y$ lon ked jad d by their long jour et. $\in$ glincially those which had crossed the Lathe daring the late squally wrather. The bist of ikem beloused to Mr. Marde, of Mumroc County, na at Rochester, who $\mathrm{h} \cdot \mathrm{d}$ a laıge Durham Bull (imported we believi) and a H itier our year odd. which we ghed 1200 pomens.
There were eight en' in s for work g oxen, bat wals four yoie were on the ground on Thasdat. The shaw of Fat Cattle was small indecd, but some of those on the ground made up in size for the wa:t in: murbier. The largest of al was a Dubam 0x shomn by MI. Den. Minacle, near Miagara, and stood abore seventeen hands high.

## THE ANALAL MEETLNG FOR DISClSSIOS.

On Thursday evening, the Gth instent, the friends of Agricultural improsement met to interchange their riews on such topics of generad interest as might be introlaced to their notice. Professor Wilson, the English Commissioner to the New York Exhibition, was expected to be present, and it was also stated that Dr. Molphe would take part in the metting. The honorable 'emteman did not mahe his appearanes, having been somewhat fatiged by has recent tour, and the fresence of Professor Wilson heing likely to make uy for all deficiencies. The remarks of the Profesor and the gentiemen who followed bim weme lisened to with great attention. We copy from the report of the cilobe.

Cel. Tyourson President of the Boare of Agriculture, said tat ial he abse ce of Mr. M. whe the Pres:rent of the Aurieuthe al Asomiation Mi. Sherist Tra'well, the Sinion Vice-Piesident, had consented to assume the dutics of Chaimena.

Sheriff Tratawfer having taken the chas, and expressed this regret that Mr. Malliie was not able to be perent, congratulated the citizens of Hami ton on the pus tum which their cily now occuphen. He was in the cily twenty-five years ago and at the moment be colnd only recognae in it one building which was then eeceted. (Chers) Now th yoccipieta hiuh and env able perithon, and be believedit $w$ as toagrecthture they were mandy indebted for it Duntus to e eventar he trosed they would hiore an oppotimuty of listening to some valinable lecturs by genlem of of emi. ene e present, and be would there ore detain the meetina ho honser, but at once introduce to tmm. Poofrseor Wilson obie of Her Dajesty's Rojal Commissonets to this counthy.

Pros ssor Whison, who was warmly received said -l asture you I came here ths evemug mone t. learn than to thli you any thing, had I hown some short time a:o that the Asraculamal Asoctation of Upree Canma was desirons of hearing me xp ess an opmon on the rrode of laming that is canion on in the old country, I would have cot tigethet a tew whens to lay betne $y \cdot n$, hut tul I anived here, I ha not the sliphtest notion that anything of the sort woutd be expected of me, and, the efore, lan only makea few comm nts on what I have seen th-tay. And of all the thmes exhibited, those that have struck me the most and wheth will probably admit of the leas ditherence of opinion, are tho e mplements whith wheh the gromads havebeensery respectably filted to-day In resam to the geme ral taming of the colthity I ara mon comper cot to form ans opmin. I have sern som, what of the farming ot he sates, but the farming of anadn $\frac{1}{\text { hawe }}$ had solithe ofpoctmaty of obseming, hat I donot frel prepared to express an opit ion on it at all. But as I have sern on the ground to-day many implements which I h ve atsosen in the states and many of when have come from the old comery I think I miy venture sume rearaks pon them. Ind ining so hath follow the ore el in which I happened to see them. Fir of atl at the cxtreme end of the prounds, i saw a varety of charrs, mate by a man with a very eastem looking nane-Rapalje I think. in a pastoral conntry lince Canada, butie-makme is a:n impurtampursain, and to mothe buter we l, we ousht to understimd tie princifhes on which it shontd be m.ade. And I do not thati that t.ese are sery correctly understoed mithr: by the maker: of chums or by ti e perions who use them, otherwise we shoth not hate so many ab- wat machines for the purpuse brough' under our notuce. N w; aregards the making of buter, it is in the tirst phace sather an im. roper lerm to make use of, bocause the butter is al.eady made, and ah we have to do is to effect the separation of one portion or the milt from the other. The cow makes the butter, and we have tu sepatate th from the buter-malk which the cow gives us alsn. The purtuchs of butter heing much highter than the innd in which they are suspendet, come to the surtace in the shape of tream, which consists of aboul or e hats buttre and whe balf of the stbstance in whichit iloats. The only way in which we can separate the buter from this subsia. ce is by me chanical anotation. We want amachme then Which shall mechanically agiate the crom in the best and most economical manter. But there is auoth. r thine tequined to frecilitate the sejaration, vio., a reght iempeature. Theory teaches us and pactace conurms it , th:t buter comes hetter at one tem; erat ture thanat another, a moderate temprature being berter than when it is ritter tor $h \cdot t$ oi - ely c ld . Experinnee has estab ished that a turnperamore of about $60^{\circ}$ is the best at which tuater cati be made It Cuns ru ting a charn, the eorer, "e have two peints to at end to. ive must have fir $t$, a means of eexulatiog the eapera. une, and secondy a means of mechancal ayitation. In the churins exhbied lo-day-apd 1 can
s.ly for them thi.t they are very nuch better hina most I hase sen-ilifie is a very socid mean- em, l. yed for resulating the tempenture, the bo $y$ of the chan being placed in a ves of hager than itself, and the space $b$ ween them filed with water, eithen hot or cold, accond ne as it is nee essaly to ratec the temperature of the cream to (i) in winter, or to low it it that point in summer. The next thing required is of celmbical avituion but the mode emploget in this churn to effect this is not so good as it might be mate. The dasher is at a verg ingulect descif tom, and d. es not give you anythine hhe dhe pow r which a slishe alemton in its shape wauld yieth. and besales does not atail i self on the mech mied ads athorda manachivery by multiglyng wheeis. Were these int-oduced, the dashers wond hurr six or eight tume for each turn of the hand in. siead of once, and the buthr would be mate much more quichly, and withatres exp endinne of phy-ical power. At the (iveal lixhibtion of 850 of all the chans bonght fonward th re was on $y$ one fully to my mind, as combinms the two e-sen ints I hav: bamed, and that one cam. hom Fance. J witall I combla to gel some of the mathme makers to purehase it, hu' as hone of them would do so, 1 purchased it my elf. an das I have used is now tor two years in my 0 in duiry, 1 am quite certan as to the correctuess of the pri cijles un which it is constructod. At the (ine.d Lahbu iva it got the prize buih tor quality and time. As regads the 1 mm , I consider that buter is away-best made, when the churnity oceupies aboat twenty niabucs. Alug ide of these chnors law todat a ley good fieh-rolled. !t was an iron woller, but the cy inder, mstemd of linine suhbl, was divided into six or eqght dife cot sections. Ti is, it as obious, is a geat impruvenent on the selid ruler. Just in front of thas Ruchester stand I was yery mach pleased to abser ve a chaff cuter veny supriorda construction to any I has see $n$ sitace I bate been ohthre cutinent. I cathot at io ind init the ada tatr of thone e atfcutlels "hich l san so generally in use in the Siates, consisting of a saall cy lader armed stiraly on hori2. nady whe fised curning haves, whin cal me.ely be pessure agaiost a lea leen wille phaced above them. Thy might do to cut paticula ly dry stanw ohly one lengeth, but a lamer iv ons a chaiffen ter for other pur, oses than that. He wants it to cut hay as wel as stadw, and dami) hay or s ran ds wel as dry. I satw one bere made by a tion tiorland \& Millington, on the samp principle a the ciaffenthrs whach are su extersmety o ed in the Oha Country Ihe cuting pari constists of a large dy-whel. on th madit of wheh are fined cuthor ho:ves of a scymmer sha, econcate instead on comex as they are sume'mes mane. The m chne has sot three knives and when the bywheel is mened tound, these come sure ssively in comact with the natter exposed to them, and the st aw or hay is eat of and tatls mo the tratiprepared for at. One defect in the machne is, that the knives do not give a contanous cat - that is 10 sav, one $\mathrm{k}_{1}$ ife leaves ofl cunting lefore mionhme be-ins, and boih the speed and the pow of the mechine a.e thus dimini-hed. And the wo st tendency of the chech is, that it des not ace bericaliy buthaeraly The fastar you so, the greater lateral ation you gite to be llywhe el If this frult were re:nedied by the kil ves :,eing mate a lithle longer, the specd would be more equal. and the stiain o:d the machinery wond be ar less. Alungside of this I saw another machine, brught wer to lias collutry some two years ago by a gent e$m$ m when deserves dh thaks for boving in oduced this and other marhines on the grom d-br Bontom of l'oronts. Althourh in this mathine there a eo only two knives, Hae cut is comituous, riat hy a vely sim. ple arangement in the cogein! of he wh eis, y va can lousthrin the ent fiom a haif-nch, sutable to horses -to tivo inclese: suitable fou ruminang cathle-or four
inches the length requited for litter. Hasing mentioned Mr. Boahon's hame, I would call your atientina also to a hoose hoe, which in England we find to be a very rssential accompa im ut to a d ill as it enables you to keep your land clean-one of the essentiais of any hag approximithg to goond farming becau-e no man can thrive who grows two croph, and can only send one of them to market (Heat, hena'.) It is a very simple c mon mee, and if yon mily a'range that the wilth of the horse hee betwern the Wheels, shall be the same as that of your dr.ll, wherever ut ges howerer torthous may be i's course, you mat thus clean your wheat wi h great facility. I have been arcustoned to hoe out some 400 acres eerery spring most effer thally, at an evpense of about fid an acre, mastrad of having to pay 3i. or 3s. (id. or 4s., for dand howing It enables us also to get orr the whole ground much more spechilt, than we would often b. able to dor if we hat to depond on mannul lab ur. I Was very much pleased to see a subs al plough, an instrument th. thas achieved a great senown in England. There is mow, I think searcely niny difference of opinion as 10 the geat adrantages of subsoiling, povided the land is dranned. I believe that this which is called Reid's sutholl phough will give the farmer all the advant ge he desires. It is very effective in i:s operaton-inexpensive in its co $t$-not liable to get out of order-and very casily wooked. the one I am speaking of is sent, I beleve, by Colonel Marks and it can be had for some fifteen or trenty dollars. Adjoining to Ahis is another implement, perhals dess known-the sca ifier or broad-share phough, made by a Mr. Bentatl. It is somewhat dufficult to describe it but it is a ve:y effecive instrment, which m iy be pat to vaions wes. In Eng and it iprobulty chiefly used in she ring the stubbes. after Tee have taken our gain crop of the groamd. By sheating the stub de an inch deep, $\phi$ ou cut up and dest:oy all the weeds. Seeds whicu are lying ander the soil ready to spring up next your, are brought to the surface, atd springing up in the autumn ate destioyell by the winter's trust. 'This broad share plough is als, a good thing for paing turf, and by some slight alteratuons, winch it will realily adnit of it can be turued into a subsool plough, er it may be converted in'o a harse hue, that will hou two or three rows at a time. In short it is a very useful instrument. The sale of it in Engiand is very extensive and thre are very fers harms of any extent without it. The questi in of phoushing would give a man enough to talk abrut for a week, and I will therefor • only notice one or two peculiarties which struck me as being improvemons, and which 1 stall be very glad to ad:pt when I get home. There was a plough, made by Ba: ron, of Norwich, with a very good arrangement of what is called in this comntry the clavis, or what is called in some parts of England the bridle. Instead of any of the com, licated arrinsements of :crews, and nuts, sen"rally employed, he whole arrangements of depression tand lateral actionare derermined by two screws, vee verticalard the o:her horizortal. By means of the veriical secen, you depress the action rod. or elevate it. to suit the depth and style of lind you are plonghing; while by meaths of the hoiz mat screw you ate endthed to sel your pherg to the land in the way requred ; I think we shall be glad to c.sll it the C.inadian system when we srot it mtoduced into England. I also saw what I belipere to be an entirely new wachine made by a man by the name of Anderson, for dropporg potatoes. It was a very simple mechanical contrivance, and canant but be useful in a constry where labour is of mportance. I was also very much pleased with a vely simple form of a hay take, made by a Mr. Haris. It seemed 4 ite as effective as any of the othe $s,-$ simple in its const uction, and cousequenly less expensive, and
less likely 10 get out of order. Implements of that sort we do not use much in Engiand, whire we are obliged to throw our grass about consideably after it i cut, and we use a lay mahing machine whith throws the gias all ore the field, and then we Hindly draw it tug. ther with me of the se thothed mactines. But I hate sere its se in Amerin a, and I thmh this one exhibied by M. Hharis, w. Il te an imputiment on these generally employad. I was also much struck by the dill madr by Messis. Adki,s, Elswoth \& Co., of Inmilton. The arrampluent seemed very suitable for the purpose for which it was intended and the pice at which they are prepared to make it is not at all hish. At home we flad it most esential to nise dille, and even in a young country like this I am sure it would pay a farm.r well to drill his cro;'s just tor the purpuse of keepinat them c ean. Alongside of this, amongst the other thinge, I saw a reaping machine made by the same firm. This was similar in its construction to all these very imperfect machines which I bave seen befime, except that in one part Mr. Adkins attempted to achieve, what Mr. Athins, of Chicaro, has already achieved-in the shape of a selfating raker. The Chicaro maker invented a rery ingenious mechanical raker, one of the prettiest things ! have seen for a long time, and at the sane time, I believe, one of the most useless. In the contrivance of your townman, 1 do not think he has got quite the thing he wants, but it only requires one little alteration to make it perfectly effective, as far as a machine of that sort can be liut, although I am pretty well acquainted with reaping machines gencrally, I am opposed, upon principle, to the whole of them. I am told that a good man with a cralle and seythe, will cut down -1 am afraid to tell you how mach I have been told he will do in the state:-(langhter)-but I believe a good man will cat down from two to three actes a day: Where the crop is light, amb he staw much drier than it is in England, I have no doubt a man can cut down three acres. (On the other hamd We have an expensive machice, requiring two men and four horses to work it, that certainly cammot ent twelve aeres, the work of four men with crade secthes. This surely is no teimph of mechanieal skill, and we must have a better article before we can use it to much adrantage. I think the whole principle of the machine is defective. In the first place, we have got a lateral traction-the drawing power being applied to one side, instead of the centre of the machine. This surely is an absurdity. No one would handle the ralke with the handle stiek in one end of it. Then, when you take it into the field, it camot work, till a man goes before and cuts away a width equal to that of the machine all round the field. And besides this it ean only work in a circle. Still I believe there may be some cases, in which it may be adrantageons to use it. In the Western Prairies, and it may poesibly te the same in Canali, labour cannot be hand at any price, and if you have linar horses reduced to the value of ano men, it may be of use. I should have mentioned th., that I think the principle of the reciprocation cutthe eut backwarls and forwards is a false one. In every motion of that sort the mechanic will tell you that there are what he calls the dead points, that is, prints in which the knife is in a state of $c_{1}$ uieseence, and during that time the machine is still being pulled on by the horses. The resalt is that during that period the straw is not cut, but is cither wrencled off or dragged along. and every half hour the machine has to be pulled up, to allow the wheels to bo untied from the heads: of grain and straw twisted about chem. I think we havenot been fairly treated
in thin matter of reapma. In $15: 51$ tho reapers came our from this continumt t, Eughomi, ju-t it the tinuwha the erutehes had heen taken anay from the farmers and we houl to stand un our ow it lero, and beram :o think that we mut do sumethime. it was just at that time that the Amerivan mathomes cane
 culiar to our cousins, we thonght it man be some
 tural month open so wide, and it swallowedit in at ciec. (Lamghter.) It turned out, honever, on enquiry that, instead of reap ing mathines coming from the continent of America to us, ther had actually gon from us to dmeriea, that huseys machine was merdy a bad copy of the reaper insented by the her. Alr Bell of Carmy lie, and used on his hrofhers farm in Forfars!aire since 1ses-and that of Necormick's machine there was an exact figure and deseription in the Mechanies' dournal, for Nowember 18:-3, a patent having been takenont for it by a man of the name of Oghe. I give the Amerieans all eredit for drawing atemtion to thow mathines. Had they only done that. I would have been satistion. But to my stent amoyance, 1 have twice heard pulbe men in the States go a great deal further. In one cane 1 heard a sentleman of high stameling in seience, a man of whom any country might be proud, refer to the e mathines as a wonderfulproof of the ingemaity of his countrymen, and how far they were before us, and how much indebted we ought to feel to them for having introduced our own machnes to us. (Latughter.) Atul at siamoga, the weok betore lat. I harat a most exael! ut and admiable adtrow, delisered by a gratheman whe is a credit to the luited Shates. It was well conceis ed, charact erized throughout by prefeet gool ta te and nowl fer ling and most ably delisered; but he could not heep away from these reaping mathines, amd white referring to them as a trimuph of Auserien ingenuits, he turned roumb and bewed to me, as if 1 nould corroborate him, although I ewald do noilhing elee tham smile at it. Bhat more than this, he said we had to thatels the Americans for having moroduced these materines, notwithst moding that for half a century our larliament had ofiered a reward for the same thing! (Laturgter.) This was purely imaginative, no such reward hav jag ever been wifered. The fact is, that in 1s:3, five of Bell's matiines were mate at I Mmdee, and brought over to this country, and somctime afterwards Hussey"s machine was brourht out, the same as Bell's. with some few alterations that were the opposite of improvements. Instead of putting the draught in the eentre of the machine, as bidl toes, Mr. Mussey puts it at the side of his; and l leare it to ang hechanic to saly, which is the most effentive phan for pulling anything forward. (Hear, horas) lyan, with Bell's we have only to send in a man to cut sufiecient room to admit the machine, which will go in any direction we please. The diference of Hhassey's an this respeet I have already mentioned but I have one more fact to tell you, which amply compensates me for all the amoyance and anxiety I have had about these reapers. It is this, that at ihe great agricultural show in England, this year in Yorkshire, and at the Giloneciter meeting of the Agricultural Society, Mr. Bell, the Scoteh farmer, brought forward the machine which he has used on his fam for 25 years, and in the openfield beat both NeCorm:ek's and Hussey's. I have grot the papers containiag their aceonts of this, (Gorducr's Chromich and A pricultural Ga..ette, Ang. 13, and Aug. 2in, 13.53 , , and will leave the in in the hamds of your bociety. The Jary in both eases were manimous, and the gold medal and twenty guacas were given

 of the ofprentunits of mahin: thic stateme mi, and,
 cetting it intepmint. I said thereme thing sereral
 there. (latughter:) The I arneol Proferor than thanked the matience for the attention with whinh he han herol lifened to, and resumed his seat amidst heonty aplanse.
Prefessur Pemband wished to make a remark in rogad to some of the implem n's wh which Poffisor Wits on had alluded. He le qued to state di-tinctly, as it did not appeat on the cards that Bentall's scaittier was imponted into this country by Mr. J.hn A1nold, of Toomon, and that te small plough next it, for makne dills and earthing up ponttees, was also motrolaced by that genteman. Mr Arnoth, he was auhorized to state, was quite d sposed to sell themat the pine he gase tor them in England, wihnar, he believed, addug anything for treggh and meid n'al experse's. He :ainht lihewise state that the subroil plough to which Ahr. Wikon had alluded, and which would b. fonnd, with the whe two implemen's, to the west of the final Lall, was introduced by the exerllent ex-president of the Assoctation. Mr. Marks. Wha: he (Mr. Buckland) lett Enoland, it was considued the most allici n' subsuil plough then kn , wn, aud he heleved wat nothing lad since been inroduced to displace it. Castings had been made of it in Torowto. and in a very shart time they would be able to produce the aticle at a res cheap rate.
 had placed a piza at the disy owd of Mr. Street, to be gweu in in ha way as the dis ci..tiom migh emsider most ben fictial to the commer. It was leselve d to offer it fir a tue-mahng mathine, but none had been moduced. A gentleman, huwever, w.s now pesent, who had only arrited that creang, banging with him a molel of a machine of wach lie was he wa entur. 'I he predut tive of the mud. I would t.ot entile him to the prian, hat the me eling would be ghad to give h.m an ofpremuty of showing by it how the machise itself would work.
The gen'eman referied to liy Col. Thompson. then took his place on the phafom. and by means of this model explained the modus operandi of his machne, which, from his explanations, appea ed to be suthicienty well adapted for th. end mat nded. He stated also his design $t$ se:tle in this country, with a view to pushing his invemion here.
Pofessor Buckiasin having explainod the reason of the absence of the Minster of Agricintare, Dr. Rolpr, wh m they inad expected to be here, by stating that it was owing to the hangue he had experienced atien trav. ling wer a tolleh part of the country during the last two or three weeks.
The Cuamas sait he obseired in the room a membe of the Board of Agralture-int. Chaste-and he begged to invite hina to the phatom.
D. Cumstie, Esq., M.P.P, beiag thus called upon, said they had heard a great deal of intee eting mather his evenine in reference to dgricul me fiom the dis. tinguished pereon who had dure them the hono of attending. (Cheris.) He thought, howerer, that Prof. Wi'son had somemblat under-rat ed the power and effectueness of the reapng machinety. and be considured that the rema.k made in regard to the Westein States applicid, and hat most decidedly. 10 the Pruvine of Wes en Camada. Paticula ly durag the pasi yorr, a grea ded of dificuty had been expetis need wa prucurug labur; ramy of them having had to pay at the tate of ten York shillings. and, in some cases, a dollar and a half a day. In these circum-
stances. where the crops had to he taken of the ground in a vers short time, and where there was a great scarcity of hands, it was found absolutely nect ssary to mate use ef a reaice, and though the marhines thev had might not he so pertect as thev ought to $b$; still they wern a detecided gain in the way of harvestins. There was nuother instrument that he woudd have like d the Prof-ssot to have alluded to at more l-unth-the cultivator or hois -lue He was satisfied that thay plough J their land a great deat too nuch. Th. deiving process was much more namat ant effertive than th. proces of plonghty. However. they had not as yet a machine, that would peiform tha' work, but so long as they remained without it, they could do a good deal with the cullivator. by usins this implement freely, even vety di.t- land conld be bought jato right cundtion and keph toangilly clan. The soml. also, by bring exposed to te atmonsphere, was madr much mane fit to reerive the serd. A great deal might be said as to the other implements exbobied. He believed he never saw so laige and so good a cullection of plonghs as was extrbited. (Applatus .) He thinght that the aur cultural impl ments generatly reflected areat credit on Western Canada. Ile mi ht say a great deal also with reference to the ce, fine stock exinibited to-day. The presen exhbition, in that respect. was supriner to ary other they had ever had in Westeru Canada. Take the Duham catle for instance, ant he tid ot think they e culd lie leaten eve:. in the State o: New York, where they had so large a number of ti- e amimals. Take the Derons ag.in. Le had never seru so larye a collection of fine thonough-bred canle as there were am.ung these to -! ar. The hoises als ' were a splentid colle tion, aml in the department of sheep, tho, $t$ 'ey hal a rery pleasing evi. ence of th.e spinit and enterpuse that were nuw being dipplayed by ,he farmers of Western Canada. He siw also a nun!!er of very fine pigs. He hopen the hamers of Western Canda would profit by this institution. Ile was ce tain that of it kept up is chara ter, auriculture in W'esto in Camada must prosper. Ags: iculture was the firt and most impurtant protestion in the conntry-engaging as it did abo:t eight-t n'ths of the whin le puputation of Wes ern c'anada. If the feople were ficul's $t$, th mselves, by promoting these agricuatural a-s cintions, and encoung ng the grow h of ag icultural scienre, they would very soon ind.ed renter Upper Canada one of the finest potions, not only of the Western Hemisphere, but of the world. (Applause.)

Professor Winsos said he quite agreed with what Mr Christie had said in iegard to ploughs. He had not seen so grond a cullection of them on this side of the Allantue. He aure d wibh ham a'sin that the system of plougiing was bud, but they wer beginning now to leave it off as fasi as thry could, and in the steum diggng machine now bruaght into operation, they inmated as nearly as possible the actuon that was giten to the spade by the museles of the delver.

Ot the mution of Col. Thompos, secunded by Mr. Cn serre, a vote of thenks was pa-sel to Prulessor Wils in for his kindn. ss in attending the Shru, and f.r the vely valuade hunts he had communicated.

A vo'e of thunks was also passed to Mr. Sherill T. eadwell for has condact in the chair; and the meeting separated.

The peach originally was a prisonous almond. Its flestry parte was then used to poison arrows, and it was for this purpose introdnced into Persia; the transplating and cultivation, how er er not only removed its poisonous qualities, but produced the delicious fruit we now enjoy.

## THE ANNUAL MEET:NG.

The annual meeting of the Directers of the Association was held at Mamilton on Fiday forenoon on the grounds-Mr Sherif Trendwelf, lit Vire-Presidant, in the chair Genge Buckland, Eaq, Serretary.
The following is a lity of the Delegates piesent:Russell, Archibain Petrip; Lampik and Rentrem, Rubrer Eell, William Wallare; Fronienac, Baron de Languell; Prince Eduad, J.'P. Roblin; Onturio, Ehene zer Burell; York. J. P. Wheeler (; D. Wells, Simeore, Dr. P sis; Hatoon, Thomas Dougens; Wentworth, Thmmas Davis, Joseph Webster; Brant, Gro. Stanton, Chales Puiny ; Wellington, J.hn MeCrea, James Wiieht; Lincolu, Julge Campor 1 ; Welland, John L, mon, Sr.; Midhesex. J. B. Askin, T. C. Dixon. Elgin, lsaac Minor, James Armshong; Oxfeed, Joln Buwick.

## resigisting of the president.

The Hon. Adam Ferge-son commenced the proceedings br readnug a leter which had been received by the Secretary from Mr. Mathe, the Piesternat of the A-sociatim. Mr. Watthic sta ed that, in eunsequence of severe ind sposition, he found himself numble in contime to disclarue the dutios of his of fice. which he begerd therefore to resign. At the same time he continued to frel, and wo:ld ever do su, a deep interest in the As ocmation, hele eving that its saccess was intimately connected with the growth and prospenity of the Prorince.
On the motion of Mr. Fergussos, seconded by Mr. Mants, a re-olution was adoptrd, expressive of the deep regret felt by the Association, that M1. Mathie fiom ill health conld not cont:me to disclarge the duties of l'resident, and tembe. ing bim their thanks lor the zeal, energy, and fidelity whit h had chatacturized all tis exertions to pronote the objecis of the Society.
office rearers of the association.
Mr. Sheriff Tiendwell, first Vire Piesident, was elect d Pr sident for the ensu:ng year Davad Christio, Esq., M.P.P., liist Vice Presudent, and William Niles. Eisq., Warden of the comnty of alidel sex, second Vice President, R. L. Denison, Esq., Was reappointed Treasurer:

## the show of 1854.

Sheriff Askis, seconded ly Colonel Thompson. then moved that the next Provincial Show be hild in the town of London.
The Secretary stated that last evening he had received a commmication from th. Commy of Milldlesex informing hma that if the Exhibition were held in Lonton, in 1854, tie Cumety of Madlesex had r- solved to subscibibe $£ 500$, the 'own of Loidon $£ 500$, annl the county of Elgn $£ 200$, makiig a total of £1eno; besides this it was expected that $£ 300$ would be raied by privale sub.rriptions.
Mr. Nines, one of the Dilectors of the Great Wectenn, assur d the meeting that the railooad would be opna by the wam of mectuy next gear. and that no chay re would tie nuade by the hai roa.l for ans of the implements carried by them $t$, the show.
The motwin was then e rried by acchomatio n, seveinl of the Dinertors expresting their high sense of the liweratily disphayed by the local and railtoad autherities.

After sume discussion as to the best time for hoiding the bluw, the fourth Tuedlay or the enth of September was tixed upon for next year.
Keselutions wire then passed. giving the thanks of the Assecation th the Mayon ad Co. pura ion of Hamilton-the Hamilt n Local Committer-Mr. Commissioner Wid er and the Canada Company for
their frize of $\mathbf{E 2 5}$ for whent-ibe ladies of Hamition The Julves- the proprietors of the gromids-the citizens of llamiltun for the mannar in wh.ch they had promo'ed the exhibution and lar the libeal hospitality they had ex ended to visitors-the Pr gsT. C. Stwet, Esq, M.P.P., for his prize for the improvement of the $b$ eed of horses-and the Countirs of We..tworth and Waterloo for the donations they had made to prounote the present exhibitio.s.
The baron de: Longueal annomered his intention to giv: a prize of $\mathrm{E} / 0 \mathrm{at}$ the next Ex.ibition for the best llereliad Bull, not less than two amd nut muse than four seans old.

## sald of hequr on the show grocsod.

Mr J P. Ronas heg sed leave to lhow out a suggestion, that i. tu:ure no lignor should be allow d to be sold on the g. ounds. If be did not get a pledee to that fifert, $h \cdots \cdots$ uhd move a resolution, and $g$ tare on it He had seen four pe ple lying on the ground in a state of berstiy intoxieation-an exhibation that illy humotized with the occasion.
The ifon. Adam Fergusson said he was glad to hear that amune the 20,000 people assembl 1, Mr. Roblin was on!y able to discover lour persons intuxicates. He was a deci ed friend to temperance, but he nould tot fo the length of preventins a thirsty man from gettitg a glass of grog, if t.e manted it.
Mr. Rublin said he had seen more than a humdred people woise of $1 \mathrm{q} \cdot \mathrm{or}$; but when he sjoke of the four men. he refared to one particular case. Ile begged to move a tesolution to the effect he had stated.
Mr. Beti, seconded the resolution. He believed that on such occasions as thic, a great deal of evil was caused b: giving lacilties for procuing intoxicating liquors. The mumber of drunken pent le he had seen during the last day or two, was a disgace to the nelghberhood. If had been present at the Boston Jubiter, "hare 300,010 persons were assembled, in addition to the ordmary population of the city, and he had rot see there one-lenth of the tumber of duaken men that be saw yesterday.
The Baron Delanguerle said that the Boston people, if that we.e true, mast have very hard heads, as, for one item alone, be had seen a bill for 6000 bottles of champasne drank on the occasion reterred to. (Laughtere).
Col. Thompson would be sorry that a charge of drunkenues: s ould be allowed to g.o forth uncontradited aganst the yeomanry of that part of the country. It should be remembered that a arent many of a class addicted to the use of addent spirits were employed on the canal, and hr was sure that it was among these that the instancers of drunkenness re ferred to had been obs reed. He thought it was impossible for the Ass ciation to exercise a control over this. The matter should be left to Temperance Sncieties, or it they chose, let the question be determened at the $n$ xielection. If the comntry shonld be in favor of a pinhbitory Liquor Law, then let it be cuacierl. If the maj nity of the people of Camada were of opimon that not a drop of liquor shmala be sold in the whole country, let a lar be mased to that effect; but it only wastod imme, and callel forth unpleas.ant teelins to di-cuss the matter h.re.
Mr. Robliv, after what had been said, consented to Fithdraw his resolution.
Mes.is. Thomison, Buckland and D nisnn, were appointed a conmittee to revise the by-laws of the Assuciation, and report at next annual meeting.
A sute of tharks was then passed to Mr. Trendwoll tor his conduct in the cinar, and the meeting separated.

## PRIZE ESSAIS ON CIIFESE ANND BUTTTER MAKING.

We have much pleasure in giving publicity to the following :-
A. S. Arnott, Esp, , P. R. Wright, Esq., President of the Society, at 'James Sutherland, Esiq., offer the followng premium: to be competed for by the Ladies of the 'Jownship of Llamilton.
For the best Essay [in detail] on making and curing of Chese - - -
For the best Essay [in detail] on making and preserving Butter
The Esssay to be sent to the Secretary before the first of November, each Namuscript to be accompanied by a letter contanung the name of the author, and these letters will not be opened until after the Judges have awarded the Prizes. The successful Essay to be the property of the Farmar's Club. The Jualges to be Messrs. Thos. Page, A. S. Arnott, P. R. Wright, and James Sutherland.

## WALTER RIDDELL,

Township of ITamilton, Secrctary.
Sept. 20th, 1853.
REPORT OF CROPS, \&c.
The following extracts are from a letter we have just received from Nr. Walter Riddell, dated Sept. 27th. They refer to the Comty of Northumberland, but they have a much wider application, in several a greneral one, if the information we receive is correct.

I have a little vo say with regard to Agricultural matters; our crops have been all secured in excellent condition, our fall wheat was most abundant, our spring wheat was, I think, very near an average crop though not so strong as last ycar. Oats are generally complained of as light, my own crop was a full average one. Barley I think was a far crop, and Peas a good one. Potatoes will be light, and I observe some rot amongst mine. Carrotts where sown early are gool, and even late sown ones have done better than could be expected. Turnips are very unequal, some fields very good others none at all, my own are very poor-the worst crop I have had in ten years. I have some cabbages and they are bad-the dry weather destroyed these. Nangel Wurzel seem to have done the best of any of my root crops this season. We have had some fine rains lately-our pastures
have revised wonderfully since the rain came, which is of great benefit to our stock.

Fall Wheat has got a first rate chance, the rain has brought it away well-where sown early it looks beautifully. On the whole we have abundant reason of thatekfulness to the bountiful Giver of all good for seading us an abundance for man and beast.

## THE WHE.AT FLY.

## To the Editor of the Canadian ingrirullurist.

Dear Sik,-I enclose in a quill some insects that are making considerable ravages anong iny Wheat. As editurs of Aericultural papers are general!y expeeted to know all things, 1 apply to You for iaformation on the following points:What is the real anme of the insect-it is called a weevil iere. Is the smail oramge coboned one the same kind asthe two caterpillar looking ones enclosed. (I ask this as seven or eisht yeans ago there was quite a number of the large hind among our wheat here ; but I did not olverve any of the small orange colonred ones. Will it destroy the orrain after it is lipe and put in the barn? Is there any known prevenative for it? Is it the same wheat fly that made such destruction amour the wheat of Lower Canala some years since? Dear Sir, I am somy thus to trespates on your valuable time which must be fully uccupied otherwise, but as the questions mast he of vast importance to many of your readers besides neyself, if yon could answer them in your next number, you will confer a great favor ent

Your most obedient servant,
WALTER RIDDELL.
remarks.
The proper name of the insect to which our correspondent refers, is the Wheat Fly, or Midge ; (Cccillomyia tritici). It is a parasitic and dipterous insect, and belongs to a genus which composes several distinct varieties of tlies that deposit their egrs in the flowers and ears of a number of cereal plants.

Our correspondent has enclosed in a quill several of the maggots or larre produced from the eggs of the Wheat Midge: these maggots injure the young ovary of wheat, and consequently prevent the grain from arriving at a healthful maturity. The injury therefore produced by this insect is done previously to harvest-preventing the proper ripening and development of the grain. Whereas the corn weevil, strictly so called, (Curculio granaria) is injurious to grain after it is harvested and thrashed; particularly when stowed away in large quantities either in the granery or board of ship.

The wheat millye is sometimes confounded with the llessian Dy (Cecydomyin de:s ructor) an insect altogether difierent in its habits and modes of inflicting injury on grain. The former impairs the vitality and slunts the growth of the gran in the ear; the latter deposits its eges and prouduces its larm in the sheaths of the Wheat stem in the lower joint, when the young insect is fully matured, preventing the proper growth and ripening of the stram by absorbing the natural juices, necessary to the full maturity of the ear. It was this insect, we understand, that produced such havoe in the wheat crop of Lower Canada and the Bastern States some years ago, when it was deemed erpedient to relinquish the culture of that grain for a number of years.

As to preventatives it is exceedingly dificult in practice to apply an effectual remedy. From our imperfect acquaintance with the habits and modus operandi of many insects injurious to the farmer, the question of providing antidotes is yet involved in much obseurity, but the progress of knowledge arising from some minute and accurate observations belonging to the natural history of these depredators will doubtless throw increasing light on this difficult and, at present, obscure and mysterious topic. In the case of the whest if, early sowing has been strongly recommendel, and exposing the soil in which the pupa are supposed to be embedded, to the action of the frost. Professor llenslew, (if we remember correctly, recommends the employment of the fine sieve in separating the larrex of the Midge from the grain and chaff, and then to burn the former. In the case of the Hessian Fly , he suggests the burning of the stubble on the ground ; a practice that has been subsequently tested, and strongly recommended.

We hope soon to be in possession of Mr . Curtis's admirable papers on these subjects, which appeared a year or two ago in the Journal of the Lioyal Agricultural Society of England, when we will give the matter a more extended consideration.

We are glad to find from a subsequent communication received from Mr. Riddell, that the ravages of the Wheat Ply have not proved so disastrous as he seems at one time to have an-
ticipated. Although his last lefter was not written for publication, we are tempted (trustins to his forgiveness) to transcibe one or two paragraphs for the information of our readers.
"I do not think the areeril has materially injurad our wheat in this nejehhourhond, it was certainly not worse in Spriner wheat than it was lat year, and though I think it was worse in the Fall whent than it was last stanon, yee the crop bining so abundant it will not be much noticed. T'pre was least weevil in the Mediteranean What with me, I thourht there hat been mere in it as I could not find any while wheat was growing, but on thrashing smone a few days aqu. I found some in suning mal! atier cleanivig up.
I do not know whether you have any museum for precerving grains or not, but I think it would be very desirable to have samples on the straw of all the dilferent varieties of wheat and other grins grown in the province-and an account of the soils for which each is best suited. I would send you if you should wish it, small samples on the straw of all the different kinds of grain I grow or could procure. A collection of grains from the different paits of the province would help to corrupt the names as I am convinced that the same variety of grain goes by dafferent names in different parts of the country."*

## RE.AP:NG MACHINES.

". As far as my own experience of reaping machines goes I an of opinion tiat the cuting principle of Itussey's is very good, cutting clean and well. The greatest objection I have to it, is, that it requires to be bound up as fast as cut, as the sheaves lie right in the track. MeCormack's reaper lays the sheaves on one side, so that a whole field may be cut without binding; but then I don't that the cutting principle is near so good, and I think the whole machine is more jiable to get out of order. I think a machine that would he most useful to the generality of farmers would be one thet would allow of cutting and laying the sheaves on one side, as it is not easy to hire hauds to keep a maehine going, and is often not convenient for neighbours to exchange them, and should anything go wrong with a machine it is a great loss to a farmer to have all hands idle, even for an hour in harvest. I think think there has been far too much desire shown for mere speed, both with reapers and thrashing machines, whereas, had there been more desire shown for good compact machines that would do good work with few hands, it would be far better, the mere object of speed being a secondary consideration."

Mr. E. R. Breisach, of Germany, the inventor of wood gas, has arrived in the liiited states. He claims this to be a great improvement upon the present mode, both in the ceonomy of the process, and in the quality of the gas. The cities of Basle in Switzerliand, II eilbrum in Wurtemburg, and Baireuth in Bavaria, are lighted with wood gas.

[^0]
## MOONCTIVE FAKMINC.

In a treatioe on Produrtive Farming just isumed Irom the prese, the following observations oceur:

It is in veretable as in animal life: a mother crams her child exclusively with anrow root-it beromes fitt, it is true. lint, alas! it is rickety, and gets it teeth very slowly, and with dithentty. Mamma is ienorant, or never thinks that her offspring can mot mathe bun-or what is the same thines, phophate of lime, the principal lualk of bumb-ont of sarch. It does is best and were it unt for a little milk and bread,, crhaps now and then a little meat and somp, it would have mo hones and teeth at all. Famers keep poultry ; and what is true of fowls is true of a cablage, a tugnip, or an ear of wheat. If we mix with the food of fowls a suificient quantity of erer-shells or chalk which they eat areedily, they will hay many more exers than before. A weil-fed fond is disposed to lay a vast number of eges, but can not do so withont the materials for the shells, however nourishing in other respects her food may he. $A$ fow, with the bet will in the world, not finding any lime in the soil. nor mortar from walls, nor calcarons matter in her food, is incapacitated from laying any exgs at all. Let farmers lay such facis as theoe, which are matters of cominon observation, to heart, and transter the malogy, as they justly may do. to the habits of plants, which are as truly alive, and answer as closely to evil or judicious treatment, as their own horses.

TIE: PILCM.
Cood healthy trees must be raised from stones of the common wild plum. Put them in the ground before winter, and cover lightly with earth-the frost will open them. In April. plant them in rows six inches apart, with sufficient space between the rows to introduce the plough. Turn the soil from the trees till they are a foot high; go through them with the cultivator when necessary, and level the ground. It may then be ploughed towards the rows, and hoed freely. The second year they should be budded from the 1st to the 15th of August. The buds should be set very near the ground. In the aollowing April, head them down to the bud, and treat them as recommended for the first year. I have had no knots upon my trees worked upon the wild plum. One grafted with the Washington las been loaded with fruit six years in succession. They make large healthy trees, and will last an age. The worm does not injure the root. When large enough, plant them 12 feet apart in rows. The soil should he rich. Lime or wood ashes is useful, applied near the root. The main roots should be exposed near the tuunk when the tree is rooted firmly enough to bear it.

If ;ou want to keep horseradish, grate a quantity while the root is in perfection, put it in botties, fill the hotles with strong vinegar, and keep it corked tightiy. You may thus have a supply all the winter.

Suet and lard keep better in: tin than in earthen ware.

## THE STEAM CULTIVATOR.

## To the Eidi'or of the Canadian Agriculturist:

Dear sia,-In that very imteresting and mique little took called "Falpa," or the "Chronicles of a Clay Farm," a picture is dawn betore the reader of an minmment (not rolling on the eround, bui) fuesoming madepandem revolutions belind its locomotive, cuttiner its way down by surface abrasion into a semeireniar trench about a foot and a half wide, throwing back the pulverined soil as it llies frof the feet of a dog scratching at a rabbit-hole.

The only approach to this deseription in a practicable form, - we idea of steam being omitted,is Sarnueison's digging or forkug machime, which ss said to bid tar tor supersedng the plough in many cases.

To persede the plough is with many considered an iuposibibily. Though hatherto ahmost the first ohyect of the farmer's aequamance, and the firt of lisimplements of allage, the numerous attempts made to ment a subsitute are plan demonstratums of the inefficent and unsatistactory wokng of the intument.

A machine somewhat similar to that deseribed by the author of "Falpa" is at pesent bemal construched menghand. Invented by a Camahan and pathonised by the Busean of Aericulure, it goes betore the world with many induathons of suceess, It has alre dy received the approval of Mr. Mechi, on whose farm at Tiptree Hall the first tian is to the wintessed.
The mspec:ion of a model is uecessary to a correat wea of the machine. Diflering fiom that fortrayed by Mr. Huskins, its steam power is statuary, or more properiy speaking not locomotive, but placed in a cat drawn by horses, and giving motion to a cylinder behind, armed wiht teeth; or to quate "Falpa,") reminding one at al distast view, of a half-bred vetween a hay-ted-, ding machme and a Crosskills elod-ernsher-hut ualhke them, fundame thally distinct from any and even mitramem that was ever secen in at field, as doing its work not by traction, not by its rollinay welght, bet driven by nts axis, as the steam-paddle, har circularsaw, he drving wheel of the locomotive, ate driven; supponted by in. own apparatus, and abradurg the soil with its armed teeth, first culting its own trinch, Lurying itself to the required depth, and then eommenciang its onwad tark, tearing doun the bombeno to speak) on the didvancing sode, canting back the abraded sonl, earth's saw dust, "commmuled, mrated, invented $"$ into the trench it leaves behind.

This much for Romaine's Steam Cultivator armed with the Fa! paian claw, that " works up
the earth so fast."

> I :m, dear Sir,
> Your obed servan,
A. KLRKWOOD.

Quebee, Sept. 5h, 18.53.
Abumbint erops cannot be grown for a suecessiun of years, unless care be tahen to provide an equinateal lor the sublednees canried vil the land in the protaets grown thereon.

THE PLOUGII SUPERSEDED.
The machine descrubed in the following letter, which recently appeared in the Loondon Times, is, we are informed, an invention of Mr. Romaine, formerly forman in the (Queen's Printer's Olitec, Quebee. Mr. Romaine, it appears, is now in Englind, for the pmrose of completing and introducing his machine in the British lslands. We heartily wish him everg success :-[ED. $\Lambda_{9}$.]

## To the Editior of the T'mes.

Sir, - A calm and rigid invertization and compuation have convaced me that the dem of the plough, as an instrument of colther, inseded, and that the rutatury lonking, or, iss it is wrougly called, digerng machine is the on't pofiduber cultuator. Eve: with six or erght homsen, it is cheaper and infinitely more ellectuve than the plongh.
sume the trial of implements at my " grathering," I have leceived from onte of "urr North American colonites the motet of a newis-iarented machine, whelh, by a hatpy and most simple combination of horse and stean ponsor, willand I pledge my agicultural reputaion for itnot ondy decoply, cheas ly, and efiberenty cunirate ant puiverize the suil, but at the same hane surs the seed and leave allma timished combham. It wall ahou, by a simple inversion, cut and gather the corn without any rake or othe complicition; whie, boll 111 cuavation and hanesting, its


The inventor and his mashine h.uce, by the govermment of tie disitict (!) been phated under my change and guidance. I have, thenelue, on pubvic gomads, and considenny the sas impontance of the invention in a nathomal point of view, advised the inventor to glan licernes for its manufactue. at a very modetate rojatiy to the most emment agmentumat inplementomahers in vatiues patho of the hia golom, so that our ugriculturims may he secured liy compelition agamst monopoly or infenomity, whate the anconve will benefit in proportion to the arpereation of his merits. I shall call together it mertinte of the various implement-maters. and in die lime my practical friende of the old scheol (atho mast now consider me quite insathe) will hate an opputuhity on my fatm of torming thein own comelusions.

1 may venture to state genomaly that the implement when complete will waig:t about 20 to 25 cwt., will require a pair of hunses, and wall represeal the puwer of about $S$ to 12 , of more, real horses.

I hust I need hardly say that I siall have no pecuniany interest in this motler. The menhon has been day secured. I an, sur,

Your obedient servant, J. J. ANECHI.
Tiptrec-hall, Kelvedun, liseex.
The implement tor direring will require one man amd one bug only, inciular the thatuse-
 with the addumat of ture in :a to unal as lue corn faib intu theritams. The aten trat be catied on the machane.

## ICE HOUSE.

Among the useful and converient appemages to the fan and cometry family establishment. is the ice-lcase. Diflerent from the general opinion which prevailed before ice became so impertan an article of commerce, and of home consumptom, the builciug which contains it shonld stand above-ground, instead of below it. And the plainer and more simple it can be constructed, the better.
The nosition of the ice-house may be that which is must convertient to the dwelling, or to the wants of thene who use it. It it can be placed beneath the shade of trees, it will so far be reheved fiom the inlluence of the sun; but it shoudd be so contured that sunshine will not affect the ice within it, even if it stand unsheltered; and as it has, by the ice-merchants of our eastern chties, who put up large quantities for exportation abruad and other. in the interior, who furnish ice in quantity for home consumption, been proved to be altogether the butter phan to buil. the ice-home entirely above ground, we shall present no other mole of construction than his. Mr. Allen in his recent wok on Rural Architecture states that five yoars' experience with one of oar own building. han confirmed his opinion of the supe-riority of thes over any other plan which may be adoped.
The design here presented is of the most economical hind, yet sufinciently onameutal to make it an argeeable appendage to any family establishment. The size may be 12 feet squate -less tam hat would be too small for keeping ice well-and from that up to any requred extent. The idea here givea is simply the principle of censtaction. The posts stiould be fill eight feet high above the ground, to where the plate of the rou is athached, and built thus:
hark on your grom the size you require for the huse; then, comnencmig at one corner, dir opposite each other, a double set of holes, one foot deep, and two-and-a-half feet apath, on each side of tue intended building, say thiee feet equidistant, so that when the poits stand up they will present a dunble set, one and a half feet apant. Then set in your ju, sts, which should be of oak chesnut, or some lasting wood, and pack the earth fimmly around them. If the posts are sawed, they may be 4-6 melhes in size, set edgeways towards each other. If not sawed, they may be round sticks ent from the wonds, or split from the body of a tree, quartered-but sizable, so as to appear decent-and the insides facing each other as they stand up, lined to a surface to receive the planking. Of course, when the posts are set in the ground, they are to show a square form, or skeleton of what the building is to be when compleied. Whea this is done, square off the top of each post to a level, all round; then frame, or spike on to each line of posts a plate, say six inches wide, and four to six inches deep, and stay the two plates together strongly, so as to form a double frame. Now, plank, or board up elosels the inside of cach line of posts, that the space between them shall be a fair surface. Cut out, or leave out a space for a door in the centre of the side where yul want 1 t, two and a hali or three
feet wide, and six and a half feet high, and board up the immer partition sides of this opening, so as to form a door-casiug on each side, that the space retween the two lines of posis may be a commuous box all romed. Then fill up this space between the posts with moist tan-bank, or saw-dust, well nacked from the ground up to the plates; and the body of the house is inclosed, sun-proof, at.d air-prosit, to graad the ice.
Now lay down inside the buiding, some sticks -not minh matter what, so twat they be leveland on them lay loose planks or loathe, for a iloor. Cover this floor with a coating of shaw, a foot thick, and it is ready to receive the iee.
For the ooof, take conmon 3-4 joists, as rafters; or, in place of them, poles from lle woods, long enoush, in a pitch of full $35^{\circ}$ fiom a hori\%ontal line, to carry the roof at least fuar feet over the outside of the plates, ana secure the rafters well, by pins or spikes, to them. Then board over and shingle it, leaving a small aperture at the top, through which run a small pipe, say eight iuches in diameter-a stuve-cruck will do--for a ventilator. Then set in, 4 little posts, say two feet high-as in the design-hanuw a hale fout-sided, puinted cap on the top o: these posts, and the touf is done. If you wat io ormanent the under side of the roof, in a dude way-and we Would advise it-take some pieces of 3 - 4 scantling, such as were used for the rout, if the posts are of sawed stuff-if ret, rough limbs of trees from the wooks, to mateh the iough poess of the same kind, and fanten them to the prosts and the under side of the roof, by way of brackets as shown in the desiyn.
When the ire is put into the house, a close flowr of boards should be laid on joists, winich rest on the plates, loosely, so that this thoor carn be removed whe:: putture in ice, and that covered five or six inches deep with tan, a saw duststaw will do, if the other cammot be had-and the inside arrangement is complete. Two doors shonla be atheched to the opemms, where the ice is put in and taken ont; one on the imter side of the lining, and the olber on the outer side, both opening out. Tan, saw-dast, or staw should also be placedat the top of the ice, when put in, so as to keep the dir from it as much as possible; ard as the ice is removed, it will sette down upon it, and stiil preserve it. Care must be taken to have a drain under the floor of the house, to pass oft he water which melts from the ice, as it would, if standing there, injure its keepins.
It will be seen, that, by an eiror in the cut of the gromen plan, the inside line of posts does not show, as the the onter heme, whicn they stould do; nor is the outside door inserted, as is shown in the clevation. These defects, however, will be rectified by the builder.
We have given considerable thought to this subject, and can devise no shape to the building more appopriate than this, nor one cheaper in construction. It may be built for fifiy to a humdred dollars, according to the cost of material and labor, and the degree of finish given to it.
It is hardly worth while to expatiate upon the convenience and economy of an ice-house, to an American. Those who love well-kept meats, fruits, butter, milk, and various etceteras for the

ground plan.
tabie, undersfand its utility well ; to say nothing of the cooling draughts, in the way of drinks, in hot weather, to which it adds-when not taken extremes-such positive luxury. We commend the ice-hnise, well-filled, most heartily, to every good country housekeeper, as a matter of convenience, economy, and lusury, adding next to nothing to the living expenses, and, as an appendage to the main buildings, an item of litte cost, and a considerable degree of ormament.

If an under-ground ice-house be preferred to the plan here shown, a side hill, or bank, with a northerly exposure, is the best location for it; and the manner of building should be mainly like
this, for the body of the house. The roof, however, should he only two-sided, and the door for putting in and taking out the iee may be in the gable, on the ground level. The drainage under the floor, and precantions for keeping the ice should be quite as thorough as we have described, as, otherwise, the earth surrounding it on thre; sides, at least, of the house, will be a ready cone ductor of warmhth, and melt the ice with grearapidity. Ii the under-ground plan is adopted, $t$ but little more than the roof will show, and of course, be of hitle ornament in the way of appranace.

Trutupuness is a comer stone in character, and if it is not firmly laid in youth, there will ever be a weak spot in the foundation.

Cuarcont, it is said, placed around rose bushes and other flowering plants, has the effiect to and greatly to the riches of the flowers.

## RURAL ECONOMI -THORN IIEDGES.

To the Eilitor of the Canadian Agricullurist :
Sm,-Last monlh I sent a few random thoughts on the " Famers' Prospects:" which I see you have been kind enough to pobbish, and at the same time I intimated my intention to address ynu, on some fature oceasion, on the subject of "Live Fonces."
Sow, ir, it is evident to every thinkinu mind Hat this subject must soou folee inself upon the mind of the practical farmer-mu-t soon become me of vital importance- and whether he reeerve it or no, the st: bborn fact stares him in the face, and he camnot get overit. I have often wondeled, when looking over the various addesses, discuschissoms, reports, \&ce, which appear from time to fime in the Agriculiurist, that this question shond have been overlooked. 'Jhe all-ahsobing wue of conversation in a new setulement is, "Hill, neighbor, how many actes do you imend "to clear next season ?"" "Well, I don"t know," replies the other, "I'll umderbrush five or six ares this fall, anyhow, - and the snow doesnt tall too (eep), I thimk, by changher wook with some of my neighbors, I will be able to manioge it, and in lyet a good bum 1 will have aromed thoush for all the wheat I want to sone, besides reservine a good potatoe patch ; and if I canomly get rats enongh split to build a grood fence to keep gut the neidhbors catle, I will have a time lot of Wheat to sell next winter." Just so, sit, a ! tirst tate, your plans are well armaged, couldn't be leat, what cate you for thom hedges, or anyming else of the kinci, so long as you have more rail tmber than you can destroy; but hold on, the time is coming when the old woods which have so suilenly setired before the standy strokes of gour ase must be either replaced by new ontes mhich is not likely, or you must find a substitute for rail timber, which may be rather dilitoult. And then, again, in old senled townships, whene yon will not see a stump, perhaps, on a farm, let afew tarmers get logether, and what are they taking abont? About the price of wheat, and whether it is likely to rise or fali. About the momber of acoes each of them has smmor fatfined. About the pedigree and raising of horses. thout the superiority ol Short-hortis, or Hetetords, adythires, over all the other breeds of cathe. thout the diffecent breds of sheep. Athont the treed of hogs that is easiest to fatten. About the metent hinds of mature and its application to interent sonls. About the kind of ploughs they se, and which does the best work. About making ads, buildmg bridges, draininer swamps, \&c., ad it might be they would even extend their disussion to telecgraph lines and raihoads, as to hether the former was a paying concern or not, ad whether the protits, as well as the advantages ad conreniences, of the latter were not more an counterbabanced by the awful sacrifice of uman hife which we hear of almost every day 1 this contment.-Thus it is, sir, that farmers sferally, in discussing these questions, though sudable, instructive, and each of them highly purtant in its own place, sometimes overlook ase of minor importance, but whel, nevertheis, aro entitled to their serious consideration.

Now the question arises, What will make the Lest, the prettiest, the most formidable livefence? I answer, Engli-h llawthom, the Crattergus Oryateonthe of the naturalst, the hatws of which, sathered in Oetober or November, and mixed with sand or dry earth, and frequenily tumed tusparate the seeds from the pupp, are sown in beds in the spriner of seeond year after gathenine, -and covered with tine soil abrut an meh in dopth, when shong enonsh the seedluas ate plamed into nurse: y 10 wh and then aboat three athen they will be reaty to bos bamsianted into the hedereoss. In the part of Bitan where I came from, such plants coubd be bought at ine nurseries for 10 s . or 15 s . per thousand; in this comotry, I presmme they would cost mose that double that amomit. The young quichs should be transplabted :n the fall, ha later than Octaber.

Hedues are oenerally planted on banks having a diteli on one side, atud semetimes on both, but (except in the case of forming a fence aganst a road, or on flat wet land. where ditches ate required as drains) it is a great waste of promnd to have a ditch at all; and, thetefore, it is peterable that the hedge should be plantedon the phan surfare of the eath. The groumd, however, should monergo a bhoronoi prepamation by being benched with the spate, or deeply ploughed, and if a small quantity of ham-yad mamate he appled, so much the better. Ihe phation is pertemed by tirst tumming the joung plants, then by stretching a line alomer the middle of the prepared gromad, and a man with a common eraden dihble precedes, making the necessary heles in the soil 5 inches apart, altemateiy $\xlongequal[\sim]{\sim}$ inches on either sule of the line, another follows puitine the plants into the dibhled and care fully and liohty treading them on everysile with the foot, leaving a slight hollow around the plant, to catch the rain, and retain the moisture about the roots. The sian!e ditch may be used when fencing against a toad or a distinct property, the dheh should be made on the same side as the road, and the sonl having been thrown up form the diteh to furm a mound upon which the phants are laid, (following the same rule as in dibuting, of hviner two lines of plans) about six and ten inches from the sitie of the bank, the roots being towads the liek sitie, and from where the grood suil sis thrown upon the roots. But it has been objected, and perhaps justly too, that the young plants are frequently destreyed by miee in winter, this may be parially wue, but the chances are in fevour of planting-it is indeed a disastrows batle in wheh all are killed, when not a man is left to tell the melancholy tale. The few plants thas destroyed by vermin can be easily replaced, and in eight or ten jears the persevering farmer will have the pleasure of secing a beautimal hedge row, afforimar both shade and shelter to this catle, instead of the unsirhtly zig-zar rail fence, the very sight of which was enourh to entice a marauding ox to make an inroad on his neighbou's grain.

Let this question be thoroughly agitated and acterl on, and a few years will show the happy results. In the meantime some of your inteligent readers, may favour you with their experience, un this impurtant subject.

H1BERNICUS.


ATKINS' AUTOMATON REAPER.

The proprietor $\cdot f$ this journai, while on a recent visit to New York, deroted some tume to a careful examination of newly is.vented Agricultural implements, especially those on exhibition at the Crystal Palace. Among several recent inventions that may be mentioned with approbation, is the self-raking Reiper, invented by a Mr. Alkins, of Chicago, Illinois. We believe some of these machines have been introduced into the western part of the Piovince already, but we have not yet heard of their performance in the Canadian harvest fieh. Perhaps some of our western readers will be able to eilighten us on the subject?

The above is a cut of the Reaper which in its general appearance resembles M'Cormick's but diflers from it in several important particulars; the chief of which, is an ingenious contivance for gathering the grain on the platform into bundles, or gavels, and depositing them at the side of the machine. The ohjection to this machinery is, of course, ats liability to get out of repair. Several wheels and sp,ings are required to produce the peculiar acton of the rake, which moves as if in obedience to an intelligent motive power, but with even more regularity and steadiuess. The additional weight of iron must increase somew hat the draft, but not to any serious amount. The weight, as vell as the expense of a human raker is dispensed with. The manufacturer, Mr. Wright, of Chicagro, told us that he would like to exhibit one at our Provincial Fair, which we urged him to do, añd hope our farmers will examine it carefully, should it reach Hamilon in time.

From a large number of centificates, \&e., we select the following. We may observe that this Reaper has only been in eperation duing two harvests. The price is $\$ 160$ at Chicago.
"The undersigned having witnessed the work ing of Atkins' Self-liakng Reaper, manufactured by John S. Wright, of the "Prainie Farmer" Warehouse, Chicago, cherfully wive this testimonial to its entire success. It cut two or three arres of wheat on very rough gromm, having a thick under-growh of grass, and delivered it at the side (ont of the way of the team as it came round again) regalarly in good order for binding. Not withstandius the errain and unden-rowth were quite moist from a rain a tew hours previous, there was no temdeney to clog the knife as in some other machines, and the stubble was leit shont and even. The raking was better done than it is practieable :o do after a cradle, or in laking off other reapers by hand. The machine is strong; not liable to derangement; easily altered to cut high or low ; not difitent to manage : thoroughly bnilt; and draft easy for one pair of horses, requiring only one man (the driver) to attend to it. It not only saves the hard labor of raking off by hand as compared with orher reapers, but handles the grail! so carefully, that a considerable per centage is saved. The movement of the Raking is very curious and novel, and very simple to produce so complicated a movernent. Wecondially recommend this Reaper to the farmers is this vicinity.
"James S. Negley, Thomas Simpson, J. W. Biddle, William Dilwoith, A. Biadley, James Wardrop, Henty Graff, Henry H. Collins, J. R. Livingsion. W. P. Baum, II. S. Fleming, D. N. White, L. Wilmarth."
The above is signed by upwards of a dozen respectable farmers, (as we are told,) who witnessed a public trial of the Reaper last season in Peunsylvania. It has taken the Ist prize al the following Fairs:-
"Committee of the Ohin State Agricultura. Snciely, Michigan State Agricultural Society. Kenosha County (Wis.) Aşicultural Sociely Racine Comuty (Wis.) Amricultural Sociely, Wis consit: State Anricultural Society, Buel Institute (Agricultural,) Illinois, Mechanaces Institute Chicago, Illinois, Ametican Institute, New Yor. City. ${ }^{3}$

The Inventor describes its peculiarities as fol-lows:-
"Il sares the labor of one hand, (the raker,) which is the haterten woik of the haverst-field.
"The gruin is luid so ecen, that the binding is greatly faciliated, some tarmers saty that one han' in tive. on four, and some eves. one in thee, can be dippened wheh as cumbered wihh vihen reapers.
"The careful handling of the grain by the raker, sates a stand pel cent. urea tahang by hant.
"The main dricing wheel is lurger, heing iun feet in dianmere, with a tom- men letioe, givnes steathess of musement in pasing over mazh ground, and gond su, poit in soll. The grain achet, tou, in wo feet in diameter.
"The frame work is weli boded and stitl, supported and stiengthened whin non wheterer necessaty.
"The rearing is compat and $s$ methat, well boxed in athi pholected hom dirt.
"The team is relieved of weisht and of the side draft by restitug the hounds upon a pair of front wheels, mahing it alon vers conventent to turn a square corne, as will be leateed by a little practice.
" The driver's seat is elevated and easy, giviner him grod command of his leam, while at the same time he can watch the uperation of the haife, teel and raker, and if necessary instanty throw the machine out of gear by the lever at his tight side.
"'The height of cutting is segulated liy a very simple arragenemt, and the hate maty be set close to the ground.
"The druft is comparatively easy for a pair of horses, and is not percepubly inctedsed by the raker."

## MISCELLANEOUS.

## MISREPRESENTATION OF THE IRISI character.

The London Artisan has commenced its "Notes on Irish Industry and the Dublin Exhibition," which, from such practical hands, ought to prove highly interesting. In a kindly spinit the writer in his opening chapter desires to disabuse his English readers of the many false and prejudicial notions held as regards lreland, and urges Irishmen to pursue the path of industry and progress in which they have entered with so much eclat. A favorable change of circumstances iffords individuals an opportunity of bettering their condition, and raising their character and altaimments; as we daily see illustrated on this side the Allantic. Thousands and tens of thousands of Irishmen are to be found in $\mathrm{Ca}-$ nada and the States, who were poor and miserable in their own country, but who are now in a state of comfort, respectability, and not unfre-
quently of positive afluence. We know that numbers of our best and most successlul Canadian farmers are natives of the Emerald Inle, who commenced life afresh in this country without a pemy, and made their way sheerty from persevering industry and excmplary monal conduct. The Arixish says:-

Hhatior sume claim to an acquathance with the people-we mean those clasoes whech will whinnately tahe that piace m lieland whel the midale and uperative cidrsen wecup) m ti,i-com-try-a how hedge of the in hathos and tendencres: ne have hish hopes of the hature of hedond; we lowh upou the whe ction which has theen serimons uged by many as to the people havina "peculianties inemipandele with sueial and manional
 thouble of esen an emphatic denial. It isa minhaken notion allogether; ensendered though ignowace, and upheld by illiterate prejuaite. The very combary th the lact. On thes ponn it is, perhaps, worti while to quate the wond of one whose opminen is of high value, DI. John Forbes, F.R.S., who has tecenty made a tour through Ireland:-"1 think, 1 may venture loblity to atiin, that thele nevel was a more ingmious ?pitivu entertained respecting a people, that, that just stated ia relation to the people of heland. It is co monstrunsly absurd-sodinertly in combadictun, not merely to fates and to experience respecting those very people, but to all that we know of the constiution of man tegarded as an animal - that it seems not merely unneressary, but humilating, to give it a serious comsideration. It is not to be demed that race groes for mueh in our estimation of social and mational progress, any more than that the constitution or temperament of individual men goes for much in modifying their particular career, and determining lheeir status. But this is a very different thug trom atfirming of a whole people, that they are meapabie of reaching a given poim of elewaion in the socmal scale, which has been attaned, not merely by all their neighbors, but even by various branches of their nwir race within the same quater of the earth." In reviewing Dr. Fobes' work, the writer in the Literury Gazelle says:-." The vague assention of superticial olververs, as to a supposed inferiority of race, have bren prodactive of infinite injury to the Irish, particularly m England; and it is ouly by the resolute espression of opinion among these who ocrupy a position such as Dr. Forbes holds, that they can be effectively net." Generosity, no less than justice, demands "this resolute opinion" from these who know that the calumny is urfounded-it is the result of a prejudice, which a well constituted mind is too disı.ified to retain; it is a wrong to be redessed, an injustice to be attoned for. Of the "pecaliarities incompatable with social and national prosperily," wnich are thus so untruly sad to distinguish the hrish as a prople, the one fact which is most perseveringly duelt upon in this countay is that of "jdleness." This, like the other sweeping chatge, from which it is inevitably deducible, is the result of gross ignotance of facts, or, what is
worse, of cherished prejudice. Wher we hear high talk of the "incompable idleness," as the cant phrase goes, of the lrish, we are ashamed of the ignorance or illaberably which dia tates the charge. Those whoknow the people, theit habits and impulses-and it is they alone who have the: to judse-know well the ir sreat capability of entdurance, even in the matet of the most disheartemng influences, and therspint patient mandisging indurary, whehonly requiesproper chatmels. for the dieplay, proper monves for hs eardions. And on this the quesion of lish indurthy hinges Without the monve, which every man in this highly favored comary hats before him, to bre him to exention, where, we ask, would be the evidences of an industry? It is all very well to point complacently to yhat we do and what we can do: but let us concipive omselves as: placed under the same depressing influences which have so long acted on the worki?g population of Ireland; let us be made each day, as a drags its weary length along, to feel, in the minensitvo of tis bitterness, that we are slaves in fact, if out in truth; and let the easlaving influence of such a system bear heavily its iroa hand on atl our social and moral capabilities, not for a year, but for a life-time-not for a hifetime, but for generations-and what think yon would be the coidtition of our population senenations heuce? We know of no suier method of dispelling the day dreamso. our self-sulticiency, thin by tryiner to impres ourselves with the siem supporition as to what we would have been, had years of temptation and suffermı been our lot. It has been truly said, that a one hour's walk amid the busy hanats on men will statiice to dispel the book notions of the stady, regardino men and manners: sn in like mamer, we think, that a day's experience of the wook-a day-life of hinhmen placed amidet farorable cincumstances, and havisw a motive for work-ing-woukd eispel at once the fatsehood of the charge so unthinkingly and unfeelingly made against them.

## HFNWIFERY.

The flesh of fowls is a delicacy of the most substantial kind; and that it is within the reach of the middle classes, and occasionally even of the poor, is a matter that we may congratulate ourselves upon; for, from the tmkey "brazed" and roast goose down to the smaller fry of ducks and chickens, the whole race seem warmly and richly associated with holday keeping, and with "mirth and jolitie," ably supporting the roast beef of Old England, and paving the way for the plum pudding-lhose pilfars of our national hospitality of which we are justly jealous. Notwithstanding our love of beef, it is a notorious fact that few at a dioner paty are found to partake of the large jont of beef, the piece de resistance, whilst they can get fowl; and, in an economical point of view, fowl is decidedly preferable to beef, for the weight of bone in the bird, in

[^1]proportion to its weight of llesh, is very small indeed, whereas the weight of bone in the heal is a larse per-eenage upon the weight of its llesh, for matme having adapled the fow! to rapid tramsit, buht its bones very thin, and, instead of fillins them with manow, as in the beast, filied them with air ; whilst a beast of burden, like the ox, had to be heavily boned and gisated to resist the strain upon his si stem ; and it must be bone, tu mind that '. he who burs beef buys boue ;" it is, therefore, evident that, in the combty it leate, and in most comatry tuwns, fowl is clewper than lle-h, in as far as le.lly dagestible tom is concenmed, there being so much wate what the inferion joints of meat, wil few can atlind to have the prime of ox beef. Animats are all more or less affected in their general health and charmeter by the fuod they subsi-t upon, athough we camort atways hace from canse to effect, so clearly as we can in butter hasting, of the turnips that the cow had eatem. Datis-fed pook is the o oppoite to porher's llesin that had beenfell on butheris ofl.1. Sheep fed on cellain pastures are noted for the superiority of tive neanon. The fleshen many sea binds tastes so fishy as to be stancely eatable. Carnivoroms atimater and binds of prey ate not eaten at all; and, un!ess the editors of pubhe jommals, and such like inlluennal panies, cry down the pactice of feeding chickens apon fles meat, we shall very soon find the tarm-ted toul a base lied, fur the transition trom fiesh oast beef, as recommended by the bighest authorities now, 10 taw cantion is so very easy, and so much nore economical, hat we need not wonder at the improsemem being very som tied and in active work. I shombd juist as soon think of indhing my dimen off the carcass of a canion crow as that of a chichen fed on flesh of any timi. It is a contmon practice with begimers to give partots a hone to piek, and they seem very handy at it- Pariots chas fed peck heir own feathers at moultmg une, and get guite disgracefu! in plumage; and prechely the sane complaint is now based against domestic poultry when fed with flesh; ther quarel and peck each oher at moulting, and it is only at such a critical period as moulting time that we lind the want of proper fool.Cinina fowls always moult badly, $=0$ much so that when they have chanaed their coat once of twice they become turncouts indeed, and be ar no resemblance to the majestic, happy bid with maiden phanaye. Hod linely-powdered bone been given to birds instead of flesh, the case would have been very different, for chemical analysis shewedh its fitness, where lime and gelatine are so much needed; but a very litile researen into the admirable artangements that Natare has mado to reap that which she hath seattered (or as tho Bitble has it "strawed") will show that these domestic bids are the gleaners after the reapers, and the chances are that that which hath been cast upon the earth will be earthy; so that we see earths, and even stone, not only admissable into the stomach of the fowl, but actually newessary to be there for its healh and well-being. Food comtaning the same proportion of earth or sand, taken into the stomach of a horse produces frighttul agony and death. When fowls assume any other chatacter than gleaners and pickers un of
crumbs, it must be either at the expense of theit own health, or of their owner's profits; for, learing out the "crask feeds" of biead soaked in old ale, fiesh roast beef, hempseed, candle-rnaker's greaves, \&c., and taking only the cheapest grain-barley, for example-at present piices, we have one ihird of a perk a week for each hen, or fou bushels a-y ear, say 18 s., or if wheat, 27r. and shx dogen of eges a-year, even at a ls, a dozen, is bot a poor set-off arainst such a sum, and this does not include the cont of keeping the cock bind; and if chickens temed ane to be taken into acrount, so must the food they eat be accounted for :alio.-Darid Sangster.

## poctro.

The following lines, written on oceasion of the recent death of a joung lady, only 15 years of age, (a niece of the Editor of this Journal) have been fent us hy a friend residing in the south of England, who is a constant reader of our paper. The spurit which they breathe will commend itself to many a bereaved and sympathising heart:-
"lis past! dhy pains are ended, All sult' rang how is n'er;
Thy spmat. freed has labided, ()A a far happues shote.

Long did the Angel tary Before be stluck the biow, Aned sem diserite in carrry The sumbume hence to go.
For weary hours yon waited, Antl caimly tune the rain;
13y Hope-hind Itupr-cupported, ivo nurn'rmy aceems came.
I watehed thee when thy xister Whould try to ease thy pam:
When not thy frimest whiper Was ever íreathed in vain.
Her kindness thou will treantre In that smitess home of thine, And teel an Ang. i's pleasule, To tell to ear's tavine.
How biter is the sorrow Thy firemt too will feel, As each returnumg nomrow They muss thee at thein meal!
When, whi aymusmy sadness, The mem'ty of the 1 tist,
Sweeps orer them in its madness Like a bller winter's blast.
Oh! if thy spirit wamder pack to this eath again,
Thur't kinow the hroken slunterThe stlemt heanel pain.
The tears that flow umoticed, (The oliest hat lall)
The prayeres liat ane presented Unto the Father of us all;
'The thoughts thy image wakens, Uf the vacuney and glovin,-
The sputh-sperakim! tukens of Love beyoud he tumb;
The still pent-up emotion Rellevid now br a tear; The eanmest calm devolton, Too pure for morial ear;
Tiis-hid from finite visinnThy heaven-taugh soul mar know, And be eathe in soni compassion wer those jou low'd below!
Then bend still o'er them hourly, While here on cartil they stay: And suride them all securely In the truc and living vay.

## GAIIDEN VISITORS.

It was only last summer that a friend from the city, afferting for the moment a taste for horticultre sought admission to our hitle gaden. We took himi thither, and he rushed through as if a railsay whatle hat piereed the tympanum of his ear, or it he had been bent on "proving by his heels the prowess of his head." We wailed at the dor mutil his retun:, and had not long to wait, when takime the adjenmer boder as ou: text, we proceeded to descant upon its inmabitants. The list was a Peruviun moveliy, which had never Howered beneath the Tay, and for whose intlor-e-cence we were waiting in high expectanry. The second was a hybrid Veronima, the gitt of an early chemi-hed friend, aml most accomplished flomiculturs:-a child from a mariage of his own making ; for our futend's is highly potemial in commanding parties to juin hads-in manipulating those quaint chandestine manages, for which nature does not provide-in tying those mystic hymenial koots among Flon's children, the progeny whereol does oftentimes give a pleatsant surpise at once to the parent and priest. The thid was a rose-the Geant de Battailles-a gift from another friend, who yaries his exercitation in the gloomy province of criminal law by frequent recteations among the innocent and lovely denizens of his exquisite Rosarium. We were makiug slow progress in our descriptive narrative-for, indeed to us a flower border is not a mere border o: flowers, but an unfolled volume oi many-colured history. Each plant has ins pedigree and its paremage-its pecolianities of habit and education, and its biography. One brings to our recollection dear friends in a distamt land; another tansports us to ths native home among the suowy Himalayas. Every plant forms a nucleus ol hindly associations, and "on every bough we have learned to hang gentle thoughts and pleasaut memories." To number tnree in the burder we had ouly reached, when, arcidentally looking into the face of our fiend from the city, we saw depicted there blank ignorance, and a cold negation of all sympathy with our floricultural enthusiasm. It was enough; we were hrowing words away. We conducted Mr. Urban out of the garden; but not betore he had cropped, with most rash and profane fingers, the flowers of an antir-rhinum of such clean and brilliant stripes, that we had severed it foom its compeers for the purpose of seeding! Smothering our indignation we led the genteman back to our parlor, and put into his hands an Edinburgh newspaper! We have made up our mind on the subject. A man that can walk rapidly through a garden is an undoubted barbarian. He ought to keep to the highway-or the boards of the Parliament House; or if le must enter a garden, let it be a large one, whene he may take an airing, and pedestriamze at his pleasure.-Blackwood's Magazine.

An Apple Puddisg Dumpirg.-Put into a nice paste, quartered apples, tie up in a floured cloth, and boil two hours; serve with sweet sauce. Pears, plums, peaches, \&e., are fine done this way.

## EDITOR＇S NOTICES．

TH：AGMICUITITSAL SOCESTY OF DERBY． Will holi its first Exhibition，on the 2 lst of October next．

Thomas Gondon；Scerctary．

## ＂tife ord cocintaysax．＂

The first number of a new weekly Journal，uncer the abure tille．is announced to be published at the beginuing of the present mosth．The promincnt cha－ racerisic of thus paper．is to consis in the giving of copious details of the news of the U＇nited Kingrom and its fredom from party pulitics．Seveial strer． tising sheets have been publishet，containing leters on the present condition aud capablities of Camadia． exceedingly well writter，and calculated to make a favourable impresston in the Moher Country，as re－ gards this Colony．The paper will be published in Toronto，cors er of Church and Fiont Streete，at fif－ teen shillings per annum．

## ADVERTINEMENTS．

## ANDRE LEROY， <br> NURSERYMAN，ANGIERS， <br> FRANCE，

HONARARY AND CORRLNPONDING MEMBER，
\＆c．，of all the pumipal Agricultural societies of Europe and America，beers to inform his friends and the lublic in general that he has just published his catalogue for 1553，which is the most complete one ever made．All the prices and required intormation for the importation of all kinds of Trees，Shrubs， Evergreens，stocks，Roses，\＆e．，\＆e．，will be found in said Catalogue，which ean be had free of charge on application to the undersigned，who will receive and forward all orders and attend to receiving and forwarding of the trees ordered，on arrival here．It is useless to adil that Mr．LEEROY possesses the laugest NURSERY on the Continent．His exper－ ience in putting up orders for America，and the superior and reliable quality of s＇l his trees，\＆ 6 ．，is too well established，to rupure any further notice． Orde，s should in all cases be sent to the undersigned in the fall with information when the trees are to be forwarded．

> E. BOSSANGE

138 Pearl－st．，New York．
Scptember， 1853.
3m．

## BUREAU OF AGRICULTURE，

Quebec，30th Seprember， 1553.

HIs Excellency the Alminimrator of the Gof－ enmaent has been pleased to revole the appoint－ nuent，notified in the Ojilicial Gazette of the 2sth of May，last，of

## Messrs．Whitman \＆Wheelock；

OF No． 100 FRONT STREET，NEW YORK， As Agents for the receipt and bonding of Gonis， or for the Payment of Duties on all such Goods as may be sent from Canada for the Industnal Exim－ bition at New York，thoir services not being re－ quired．

Mr．Antrobus Holwell，Esq．，Commissioner for Canada at the Indestrial Exmbition at New York， will take charge of all articles sent to the Exhibition from Cinada．

## WANTED，

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August 3， 1853.

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N．B．－No advertisements inserted except thoss having an especial reference to agriculture．Nat－ ters，however，that possess a general interest to agriculturists，will receive an Editorial Notice upon a personal or written application．


[^0]:    *We are much ohl ged to our correspondent for his kind offer and ghadly acrept it. It is the intention, we understand, of the Board of Agriculture to commence the formatiny of the Museum for hwith, and every liud of aid will be gratetully received.-[Ed.

[^1]:    - "Turkes boiled

    Is urkey spoilod,
    And wikey soast
    Is tuikey lost;
    Jut fir turkey brazed
    The Lord be praised.',-Old_Cookcry Bock.

