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## Pure Seed.

Tue importance oí using only the choicest seed, the best of its kind amel frec from admaxture, is universally achnowledged, though unfortunately not almass so carefully carried mon practuce as it shonld be, and a stricter attontion to a matter of so much consequence should be urged upon fame:s gelar.


Fic. 1.
rally. few persons now would employ small tubers t secure the best relurn from a potato crop. let the analogy between these tubers and ordinary seed is not exact; for it is in the eyes or buds that we should look for a closer resenbiance, and here it must be acknowledged that the most vigorour lume will produce the most promising nnd thriving plauts. Accordingly, it is that end of the tubur in which the

larger and nuore fally deiclopeal ludsare coagregated that all judicivas planiens aces, wid ia dividing the root, bate cale as to jurfurm tho ujeration its to
 necessary call in bie oxitw...ull of secd is mute censify
and mole ficencenty athe mento in the case of the larger - elcals. In plantiug Indian cern, the practical farmer carly mahes chuice of tho largest and finest - ars, if he dues not esca set apart a pies e of ground for the express purpose of raising seed, and beston at his partia ulat care in cultivation. Then, having wis momlare best eats, be eren rijucts from these all but the cumplotely derelupel hernels, throring wide those at the base and tup of the cuis. In whent. again. the staple of Cundian agriculture, the great - t pains are tahen te clean the grain and remove all small seeds of imperfect what or weeds, or foreign grain. But there is another class of seeds, in which, though the same care is called for, it is nut quite so teadily applied. In the case of the smaller seeds of turnips, clover, and the grasses, the minuteness of the grain renders their camination and the detection of imperfection or impurities not quite so casy. Let the matter is sot, alter all, attended vilhany rery great dificulty. In regard to turnips, it may be alleged that when so large a pupstion of the plants that come up have to be destruyed in the process ot siogling, it is ofnogreat consequence if a lithe adulteration is practised. Withom admithing such a plea for careless howandry, it may be granted hat in fact there is less adulteration in the case of turnips than many other small seeds. It is the practice of seedsmen, and furmers would do well to follow the exauple, to test their seeds by counting out a definite number, say a hundred, and planting them; t!:a noticing, after a sufficicnt interval, how many have sprouted. This will show at least the vitality of the sedis. Hut to detect adulteration in the case of the smatler seeds of grass and clover, some artificial aid to the sight is emploged with atvantage, and a good magnifying glatos, or cren a microscope. will be found of especial service.
In refcrence to this subject, an interesting article appeared recently in the Farmer (Scottish), from which we cony the following extract and the accompanying illustrations.
Premising that farmers are apt enough in judging of the minute difierences in the appearance of the cereal grains, the writer of the article alluded to says. "It may bc safely concluded, that in order to acguinc an cupally discriminating acquaintance with the smaller seeds, they have only to accustom thenselves to the use of the microscope, with which :o magnify the smallest seeds to at least the sizes of wheat, oats, barleg, beans, or others which they are accustomed to handle. Nany look upon the use of the microscope as a mysterious and difficult operstion, requising far too much time, application and bother, for their having anything to do with it; but theg la wuly togive it a fatt trial iaurder tudis coret lacir mistahe, disabuse themselves of all such atsurd notivas, and find, on the contrary, that it is ia ll. highest digree inhrestiog, iustrachic anal ust

its monders will, in their eptimation, viu wilh, if wat surpass, those of the magic lantern, he haleiturenpe. and the wheel of life, white they will have amose potent influence in providing an after laste for intol lectual and useful research. Many of the smodle: seeds which, to the unaided cye, seem very muth alike, zet present remarkably disersified, and when rery beautiful appearancos when siewed thruigh a micruscope of only ordinary yower, aml when ont is accustomed so to look at them, tho transition is easy to the investigation of the wide ields for micrus-

copic observation which are embraced within the animal, regetable, and mineral kingloms.
Mixing, colouring, and killing, aro all skilfully perpetrated in adnlterating seeds; and all these arts, however artlstically they may have been applied, are more or less capable of being detected by the microscope. Thins, with clovers and grass seeds, none are so cxactly alike but that a diference can be

ria. 4.
observed by a skilfut microscopist, and moat of the munuous or worthless kiuds employed in mixing are so dissimalar that their detection is comparatively casy. This is not tho ciase, however, with seeds of the tatictics of turaips and other brassicio, although
those of tive different genera, such as common or rough-leared turnip, Swedish turnip, rape, and even of some of their individual varieties, possess sur ficicut distinctive characteristics to enable a careful obserses to find out whethes of nut ditg are minded. The art of colouring has in the case of chover eeed alluined to great perfection, yet careful and repeated ubsersation of the position and slading of the antural coluurs is the genuinc seeds will serve to show the difference between them and the best ex amples of artificial colouring; which last is not nearly so applicable to grass and turnip seeds, but the sulphur smoking of the former, and the oitdressug of the latter, serve to impart a freshnoss of appearance which the seeds do not actualy possess.

Kitling is generally done by usen-heating (subruasting), of want of vitality may arise from extreme age in the seeds; in cither case the seeds will appear dry when bruised, which is pecularly marhed in turmp, rape, and uther oleaginous seeds, from the comparatire dryness or absence of wil which they exhibit when crushed. Most people are familiar with the difference betreen fresh and roasted peas, and a simalar dufference in appearance is presented, under the microscope, between fresh and roasted small seeds.

For further illustrating some of the preceding results we are enabled, through tho hindness of afr. James Bryson, optician, Edinburgl, to give the four accompanying engraviugs from magnified photographs, prepared by him, the first threc of which are from a sample of what, in market phiase, was termed "good red clorcr seed," and the fourth from another of good yellow clorer, medich, or trefoil secd.
No. I shows really good plump seeds of red clover in different positions, when magnified by oniy a good pocket microscope. It is usually of a shaded purplish and yellorish colour, some of the seeds being entirely yellow; and at the Great Exhibition of 1862 there was a Norwegian sample similar in colour to No. 4 ; although the form of ti. seeds showed that they belonged to the true red clorer-Trifolium pra-tense-some of our native wild varietics of which hare also yellew :eeds.
No. 2 represents imperfectly ripened seeds of red clorer, enclosed in their still adhering lusks. Theso as shorn in the engraving, resemble small acorns with their cups attached; and in eample, they are so unlike the seeds of any oi our field weeds that many hare taken them for those of the doduer, the pest of Dutch clover fields. In the sample from whence they were taken these were present in about the proportion of six per cent.
No. 3 exhibits different riews of the rib.grass, common ribwort, or plantain seed-Plantago lanceolata -magaificd on the same scale as the others. This was present in the sample to about thirteen per cent.; and, leing of comparatively little value, it is too generally introduced among clorer seeds for the purpose of addin" a "paying per-centage" to the dealer's profitz. It $1 s$, howerer, well bnown by its deep brown colour, somerbat shining appearance, and different shape to that of the clover seed, and being easils distinguished by the naked eje, those who purchase it from sample have themselves to blame.

Nio. 1. Yellow clover sced-Medicago lupulinais of a uniform sulphury sellow colour, and more regularkidnes-bean-like shapo than the red clover seed, from which it nlso duffers in possessing a distinct peculiarity of smell. None of this seed appeared in the sample from whence the preceding three were selected, although it is more emploged than ang other for adulterating red clover seed, both in its natural state, and when "improved" by colouring
While fraudulent dealers hare evergthing to lose, the fiar dealer has notang to fear, but much 10 gama from microscopic or other investigation; for how often do we see careless cultivators blame the seedemen fur sending them a misture of weed sceds, when the fault of weed gromth was catueng their own."

## Agrioulture,-Its Advantages.

To the Eiditur of The: Casaba l'an:yei:
Sut, I propuse to set durn bicelly sume of the
 ture, as " 14 rsum, nad for the present shall cuasider the first of these lupies. Agriculture is the at or science of cultivating the earth. Its ubject is to deblop from the suil as large a quantity of veretable products, and indirectly of animal products, as pus sible. It conducts to liealth. With what dixerent feelings do the merchant and farmer lease theit pillows in the morning; the one, cheerful with good health and buognat spirits, goes forth to his labours at the dana ot day, greeted by the music of the feathered songstera, breathing the pure, fresh wit, suectly scentel by the odonar of the fluwers, the uhas, jut baps aiter a slecpless night, malks in a thatshimel mwod to his cunnting house, probally athe..pation
 a vogage. How many an inabid that has seen the plougliboy on bis way to his work in tue morning whistling as he goes, has wistsed for a pastoral lif. The evdence of statistics show that the agricultaral population live to a grater age than any other. Agricuiure secures ordinary wealth. Niv other vecnpation or profession can furnish from its una means the supplies for all our necessary wath. Food, rament, and many luxuries, are amons the fruits of the furmer's cares and labour. Although the farmer may not become so wealthy s.s some of out merchant princes, yet take the whole class of mercbants with all the farmers, and the average wealth of the latter c!ass, if it does not absolutely surpass, will comparo farourably with the former. Not only does it secure indiridual, but also nation.l wealh.
It promotes nuralaly.-It tends to preserve the morals and raise the heart to Ifim who giveth seedtime and harfest. This was man's original occupation, and even now, the missionary tries, after proclaiming the gospel to the heathen, to induce them to cultirate the soil, as the best method of keeping them good Christians, and cinalizing the remainder of the tribe.
It tends to independence.- Tiith what honest pride the farmer can look over his golden fields, his richly laden orehards and growing flocks, with the happy assurance that bis substance is increasing from year to ycar, and that he himself is far above want. The manufacturer or merchant often fails, althongh he may give his whole time and attention to his busiaess, for the fault does not alrays lic in himself, but probally in some foreign market, or in the insolvency of some of his hitherto good customers. But what bas the intelligent and industrions farmer to fear? His funds are invested in solid ground; he depends on no earthly guarantec, but on the All-wise Being. the giver of erery good and perfect gift. Suctety $1 s$ divided into the producers and non-prulucers. Tu the former class tice farmer belongs, while the lat:er class hare to depend upon the producers: lectece we often hear the merchants and mechanes wisthing for a good crop, and haro nearly as much ansicty about the larvest as the farmer himself, they must depend to no small extent on the farmer for what they cat and rear.
The pursuit of Agriculture gives scope for intellechual pursuits. There is no business tbat demands such extensifo knowlego. The farmer has to deal whth tho works of nature, learn the diferent characteristics of the earth, the air, and the seasons. If must bnow something of regetable and animal plysiology. entomology, etc. Bosides, he must understand mercantile busmess. If in the future the farmers of Canada wish to be successful, they must pay more attention to agricultural clucation.
$I t$ is pleasant.-There is no olber occupation or prolession so usciul, 80 honourable, so healliy, so happy, and so independent. Surely such an vecudation must be gratiffing. The pleasures of rural nature aro consistent with erery period of our lives. Why, then, it may be asked, has agriculture been so distasteful to farmers' bonst 't to hard manait hatuour which many of the farmers have had to endure, and the little education which they possessed, may have hindered some from engaging in this pleasant occu$\dagger$ being substitated for manuah, and more recently,
the natural and me chanical powns for animal haberrs The use also of agricultural chemistry is coming more into vogue. Theso are sire indications of the progaess of agrienlure. The intellectand labour of the farmer is in reasing, while tor manal is decressing scinner and art are mpinly multiplying his :ppli. ances and elevatiug his calling. "Algriculhure." says a recent writer, "is an art,-Man is the arist; the suat has baburatury, manare his rall material, animnal strength and machinery his power; air, leat and monture lis ngents: and graina, roots. fruits and forase his prestlets.

CULTIVATEUR.
York Township.

## How to Enlarge our Crops

7o the heftor of Tue Casada Finuria:
all,-The following extract from a speech of Mr. Mechi, at Ihrmangham, deserves our thoughtul at-tention:-

- Acepher the crops free of meeds is, I know praclually, whe of the best and cheapest methods of chanh ins whe cop. The last saving a farmer should resort to is that of hand or horse-llocing. The meglect in this matter is painfully obvions, and robs the country of miltions anmatally. Don't tell me of sowang that tu sumethet the weeds. The culination is "orth the money irrespective of weeds. I always horse-liou my wheat. beans and peas, once or trice with Garretis lorse-hoe (at about one shitling sterlang per acre), atad handthou twice or even three timus, at a cust of abuat seven shillings and six pence or ten shillings per acre. Women afermards handpick any weeds that have eseaped the hoes. We tnow by the leaves ot our tlowers when there ts anything wionif belus. so it is with our field crops, and as I came late by rail, cestain bilious-looking crops indicated an uncomfortable state of their roots, owing to the want of drainage or food in the subsonl, or in consequence of weedy competitiou."
The abore teaches an important practical lewon "urthy of beang leaned and remenbered by coeng farmer an Camata. Wic cannot of course employ hand-labour here as they can in the old eonntry, bus we may do more to secure clean cultivation than we generaily do. 'the implement named by Mr. Mehi"Garret's horse-hoc"- is perhaps known to you. Art you aware which of our culturators or horse-hoes most nearly resemble it?
I hare thought an implement is wanted specially to cultivate and keep clean the borders of our jeeds close up to the fences, as there the weeds are apt ti accumulate. Perhaps some of our artisans connected with the manufacturo of agricultural implements may derise some addition to the ordinary plongh ic fit it for such a purpose.

I FRIEND TO MMLROVEMF:NT.
Township of York, 31st Aug., 1868.

## Refuse from Flax Mills,

Tu the Liditu of Tal. Camada Famala.
san,-In junc last number a subscriber asks. - Il hat is the best manner of utilizing the waste from A.a. mills for agricultural purposes; nhether it shoute be rutted, ant! if so, what is the readiest and quickest modo of ediecting this object ?"
I take it for granted that by fax mills yom correspondent means rills for scutching lax, and loy the "aste, what is commonly hnuwn as the shices of 1 lax If the matl is worked by stearn, the lust iustauts of utilizing thas waste is to use it as fuel in generating stcam; but if the mill is worked by water, then the waste should lee used as manure. Now, it is a well known fact that the most substantial manures, if thes are not well rotted, produce a less active efiect on the growsh of planto than the simplest fertitiers
 diviston
Then as th the readiest and quickest, and the lrast capensibe s.ude of affating this cbject, le shown make ac corupust of a... wasto with hursc-duab \& . . . turning it before a $:$ taments too much, and if neceseary, watering it with liquid manure.
A. K.

Turuntu, ith sept. lous.

## Muck for Hops.

To the Ditior e: . .s Casada Faruer :
Sin,- 1 herewath send you a samplo of stuff that I hare cummenced taking from $n$ beaver meadus, fur manure, composed of wild grass, sod muck, and a "hite cumpusition which I supposo is marl. Will son please say, through the Caside Faraier, what you thinh of the samplo sent as a manurofor hops planted on sandy loam; and how should it be proportioned and prepared?
jajies mattinerfs.
Acton, Sept. 5, 1868.
Note br Ed. C. F.-From the appearance of the specimen alluded to in the foregoing commanicatiun We should thinh the material admirably adapted fur the purpose to mhich our correspondent is applying it, and, indeed, the soil which he describes, enriched with such manuro, conld hardly besurpassed for hop growing. The whate substance is shell marl, and furnishing carbonate of lime would be a valuable addition to the vegetable manure. We believe the best way to use it would be to compost it with bann yard manure, turning the heap once or twict, and tahiog caro to curer from the leaching effect of raine. T. 3 manure should be applied in the spring, hberally: of course it would not be lost if applied this f.ll. For fuller duructions as to the method of applying at we refer our correspondent to the number of the Caxada Faraer for May 1, 1sGa. We trust his energe and industry will be amply rewarded.

Abtifichil Maneminag.-A procesz of artigcially drying and curing hay and sheaves of grain in wet seasons has been brought before the notice of British agriculturists, by Mr. Gibls, in a prize essay. The process, which Jr. Gibbs has salyected to the test of aetnal experiment, conssits in passing the hay or sheares to bo dried through a shed supplied by a furatec and fanney watha continuous curreat of hot air. The method is enilursed by the approval of some of the best agricularists in the hingdom.
stork : efpruturut.

## Animal Heat.

Ir is common to spath of animals as cither wamaWlooded or cold-blooded, jet the true distiaction is scarcely accurately indicated by the expression; for there are circumstanees in which the so-called cold-blooded aninat wothla be warmer than one of the other class. The differenco between the two consists in the power which the first possesses of maintaining a uniform temperaturo under all ordinary external condations, while the temperatury of the other class of anmals rises or falls with that of the atmosphere or medium in which they are placed. Among vertebrate animals, manmalia and biris constutute the warm-blooded urier, and fishes and reptules the cold-blooded. The temperature of the hlood and internal parts of the body, in the first, ranges from $95^{\circ}$ ts $111^{\circ}$, being in the matnmalia frome to to $100^{\circ}$, und amungst birds frum $10^{-6}$ to 111-. In man and ilie domestic ammals, tho ordinary femperaturo of the body is abont $98^{\circ}$; and this temprabare is maintained with wouderfal uniformity under great intrames of extermal condition, baryiag very slightly though ald the rango of chanate irma the sue ic to the 'rorrid zone With the aid of clothing, indeed, and the additinn of suitable diet, man can manataias his normal traperature, and adupt hamself to the condition of the external atmosphere through a mage of over tiro hundred degrees, Fahrculecit. It is pruposed in the present article to explam very bredty bury thas waform temperatare is secured.
The main source of animal heat is respiration. So large a ohare, imuled, dues this function perform in maintaning the temperatare of the living body, that

We may confine our attention to it alone, and leare out of consideration, for the present, the norvous inRaence and other subordinate ngencies in this important vial operation. In explaining the process of respiration in a former arucle, it was stated that the oxygen of the air mas absorbed into the blood with cach act of inspiration, was then conreged by the circulation to overy part of tho body, nad uniting with carbon, furmod zarbonic acid. Tho carbon emplosed to effect this combination is found partly in the blood itself, but is chiefly derived from the wasto portions of the rarious tissues disintegrated and docomposed in the constant processes of clange going on through life. We aro all familiar with the phenomenon of the rapid production of beat by the chemical combination of these two elements, oxygen and carbon. Almost efery instanco of combastion exemplifes it. Carbon and hgdrogen are tho princepal elements of nearly all combustible substances, and the act of combustion is the rapid union of these clements with oxygen, resulting in tho formation of carbonic acid (oxygen and carbon) and water (oxygen aad ligdrogen). The degree of heat erolved in this comonation is definite, and can bo measured and caicalated; and it matters not whether the combinution t:fres placo rapidly, producing combustion, or more grahualls, as in oxidation, the amount of heat erotred in the mion of geren quantes of these elements is the same. Niow the amount of carbon thrown of by an adult man, in the furm of carbouic acid, in resparation, is, under ordiaary circumstances, ns much as ejght ounces in the courso of twenty-four hours. Were we to burn this quantity of earbon or charcoal, we should, in a very fow moments, produce an intense amount of heat. Precisely the samo amount of heat would be extricated within tho body during the course of twenty-four hours by the slower chemical cumbination of tho quantity of carbon specified with tho oxssen of the air. We are not very far frum exact, then, in statingthat to maintain the temperature of the body by consuming a certain amount of facl. How, it vill next be asked, is this fuel supplied: We hare said it is obtained from the blood nad the waste of the tissues. In either case, the supply is obtained from the food we take. This then is the utimate source of animal heat.
In illustation and evidence of the foregoing vier, which is now generally admitted among plysiologists, we may notice cerain well-known facis, and deduce some important practical lessons. The relation of animal beat to respiration is seen in tho constant correspondence of the temperature of tho body with the quickness or amonnt of breathing. Thus, those animals that breathe quickest, taking in tho largest amonat of oxygen, and parting rith the mest carbonic acid in a given time, have the highest temperature. Birds, whuse breathing is quicker, havo a higher temperature fian manimalia. Again, the tempeature of any animal sinhs, if its breathing is reduced in furce or frequency. Thus, during sleep, when the respiration is slower than during the wal:ing state, tho rarmath of tho body sinks in proportion. Lexcreise. which quickens the breathag, rases the temperatiate of the hody. In the state or coinplete hybernation, tise breailing becomes remarkably slow and almost ceases, and we find the temperature of animals in this state sinking almost dorn to the freezing poiat.
There is another very importaut point in which thes subject should be considered. The ultimate ofice of a large proportion of the food we take is to lieep up the leat of the body, and we ind a closo correspondence between the amount and the hind of food we segursemil he tenpoware of the atmusphere at thu thate. In culd chanks adad seasons wo cousume fir more food than in warner regions or yeriods of the year. We relish and require, too, $s$ much more oily and richer det in cold veather than in botTheso facts, which ate su olv ivus in our orra case, should bu borne in mind in our treatment of animals under our care; and especially should wo remember that an unimal exposed to cold will consume, for tho mero cojec. wi keepsog up its beat, Without derising a paracle ul huarishment, in the ordiaary sense of the terin, a unuch larger amonnt of food than one which is sheltured from the fererity of tho reather. Economy, therefore, to pay nothing of humanity, requires that we should huusu all harm stock during
adequate shelter, and keop them ns warm as is compatiblo with their matural habits and health.
When the temperature of the surrounding atmosphore rises abovo the proper standard of blood heat, the repusite balance 13 manamed chefly by tho persparation of tho shin. The mustare exudag in this way from tho body reduces the trmperatiri' by the cooliog influonce of evaporation.

## 篗tetrinary

## Injury and Disease of the Horse's Foot.

Pexctcred Foot, Pricts, de., form a very common class of injuries, andmay result from various causes, as pieking up a sail in travelling, or from pieces or glass or other sharp substance entering tho sole or frog and yenetrating to the sensitire parts. Tho danger to lu apprehended from theso injuries greatly dopends on the situntion of the puncture and the dircetion it takes. If it be in close proximity to the joint, violent inflammation may be set up in that part, which is attended with very serions cousequences; or the juint move be actoally pencturen, allowing the synovia to escape. This injury is allended with great constitutional disturbance, the horse being in a high fover Tun symptoms vary accorling to the situation of the injury. The horse is observed to go suddenly lame, and the lameness to gradually increase. When the hind foot is the seat of the nilment, he moves with a long sten and brings tho foot cautiously to tho ground; when standing, the fellock joint will knuckle forward, and the heel is hot. Occasionally the lymphatics on the inside of the ler becomo iuflamed and the swelling will extent as far as tho hock sod groin. Theso aro tho symptoms presented waen tho offending agent has not been ic moved, or when suppuration lias taken place as the result of the injury; therefore we cannot advise two strougly a careful examination of the foot in cases of sudden lamone3s where there is no visible ivjnry. Tte shoo should bo remored, and the sole careluily examined will the draw-linife, and any ioreign bedy remorod. The sole should be well parel in the vicinity of tho round, and if the pun?ture is deep, it is advisable to thin the solo all around. The toot may then be placed for half an hour in a bucket of warm water, aud afterwards a poultice applied, cither of linsed meal or bran; when heataul tenderness are removed, then the shoe may be applicd, and it is generally safe to use a stopping of tar and tow:
Thrush or Frush is a discase often met wilh, and consists in a muco-purulent discharge from the cieft of the frog; the discharge is somewhat sticky and has a rery foctid odonr, and is the result of a discased condition of the sensitivo frog, giving rise to an abnormal secretion which escapez from betreen the clefts of tho frocs. Thrush is oftenest found in the lind feet, and it may be produced by a variety of canses. It is ocensionally a sequel tochronic disenses of tho fout, as of navicular disease, and of laminitis, and is therofors frequently found ocourring in the fore feet froin that causc. In the hind feet it is usually prodaced from standing in damp, dirty stables, especially where tho mosturo is of an aorid nature, caused from the decompusition of the uriao. $\mathcal{L C}$. Hurses in high condition, and moro particularly such as aro of a plethoric constitution, are rery liabie to thrush, as also to smelled legs, grease, \&c. It is also most prevalent in tho Spring and Fall months. In the treatment of thas discass cleanliness is of the greatest Lench:, indeed, without keeping tho parls thoroughly cleansed, medical ireatment is of little use. The affected parts should bo well washed, and If the thern of the 1 roog is detached and discased the hoife must le freciy used, to cut away all detached and discased parts, and also to allow the parts to be thoroughly dressed. An excellent application is the chlorde of zine, trell diluted, which should bo pressed in with a lattie tun and then cubereal up pith tar. In mild sases a sulution of sulplata of zac, or sul plate of copper, has a rery good effect. To prevent thrusb, the 1cel, and paricularly the cleft of the froz: should to hept clean, and an occasional dressing of tar is useful in preventing dibases, and at the zatioc timo tends to promote a healthy fromth if lom.

## Elir anainly．

Sterling Alguire＇s Milk Agitator，


In checer－making low the factory system the need of some contrivamee to stir the night＇s milh was early felt，but the application of machinery to the purpose is a recent improvement．Milk agitators，as ther are called，have now come iato general ase being con－ sidered cesential to a well－conducted cheese factorg． The objects attained by gently sturang the milk are its gradual coulnge the tomos al of the animal olour． and the retention of the cream in the body of the fluid－all three very mportan：pomes，and though it is true with regard to the last that the cream after it has risen may be surred in again，still it is not so thoronghly incurporated with the mills a－if it had nerer beeen separated．
The anvention reprosobed at the aciompanging engraving has beron fond to auswer the a sirelend most satishactorily，and is now in catensive use，buth amongst unr owa checes finturies dud in those of the Lated states，where we hat．Sexa it in ．．．tanl and Aansfactury operation．I．is mamiatured by Mr J B．Marris，of Bellesille．

The amened illustraiva will sufficiartly explain die pramephe of the combis．ther，Nhinh is，indeed． very smphe．The math wit is doville，the vater case beng dergacel to contain water，which flows in a one end and unt at the whes，where it is receired into a box duvded inte two compartment．and so construeted as be be capable of rocking to and fro． Is the water tlows into one of theie comparments． it gradually tilt，it werr，when，of couse，the water will flow into the other compartment，and as the first meanrhite empus itwelf through the aperture G．the second，becoming filled in its turn，will tilt the box orer on the other side．This oscillating movement fur－ nishes the power reguired to set the agitator in mo－ tion，as will be seen by a reference to the illustration．
Mr．Harris brought to this ufice a small model of the machine．which we had an oppotunity of cxamin－ ing，and which clearly shewed the simplicity and elleciency of the arrangement．This gen！leman also shewed usa number of testimonials from the propric－
tors of various cheese factories，all of whom spoke in tors of various cheese factories，all of whon spoke in
the bighest terms of the arlmirable working of this milk agitator．The mostrecent of these is from the Ion．Darid keesor，of Markhau．It is aderessed to Mr．Marris，and is to the following effect：
－The agitator you put in my checse factory gives entire satisfiection．Mr：．Malone，who is in charese， informs me that it quite exceeds his most favorable expectations of the value of Alguire＇s ratent．I have no hesitation in recommending it as very indispen－ sable in a well－conducted factory．

Yours truly，
D．REESOR．＂
We direct attention to Mr．Marris＇adrertisement in the present isene，and cordially commend this im－ portant invention to the attention of Canadian checse manufacturers．

## Rearing Galves，

Turs most unportant thins the the feeding of the salf is that atshould receive the llast milk from its mother．This milk，called colosi，um，possesses pur－ gative propertiea necesan＇y to clear the intestines of
the new－horn calf．That elearmace nopeted，the colf －bonld be notribed for forty days with purse mill，of fool puality．This lighid comstuthes cmple！－ numb－lment，since it contains the asimilathon eho－ mont nures．ary fur the formation of the s．aninu： purt of the geming animal．In＂Fioct the pure malt，


 hutter．substances dich in carbon and hy tho a：d，
tavor the assimitation and concur in forming hat：
If pure milh，is not given in sumbicient quatatity cither from the cow not prolucing it（which is bery munani in natural suchling）．or from the buttery batter being removed by whimming－the cali wit not have the nourishment requate 1 lor its organiza． tion．It will be loss developed．remain small．and saffer during it whole life from tion con－equences of parimonious and ill－ditected feedin；daring the tirst perlou of ita existence．
The call is mearly aluays made to bus too sud． denly from the diet of pure mill：to that et．Aitmmed milk，without adding to the mille elespoileal of its buttery clements ans substance capable of tilling their place．＇forephir the los which results fiom their phace skimang the milk，we shonld add a decoction of thax seed：later．a decoclion of heans，which contain cascine，mixel with an infusion of lax scel，which contains gum；add to this a small quantity of mo－ lasses，nul we obtain a very nourishing drimb－ Gratle les cimputacs．

## New Cow－Milking Apnaratus，

Thi：Jlurk Lame Express conclades a very full no－ tice of the Larre International lexhibition，by de－ scribing＂a few odds and ends＂found in the gat－ leries．Among them we find the following account of a new cow－nilking apparatus．
＂．As to a cow－milking apparatus，the incention of JI．Liverbardon，liue do l＇rovence，laris．We can－ not say that we are an ardemt believer in the milhing of cons by mechanizal mears，certainly not in such as aim at cbierting it by such means of a complicated character．The majority of furmers beliere，and they hare at least it great deal to say on therr sude of the question，that milhing the com，like some other oper ations in practical farming，is best done by hand，and that all complicated apparatus to operate this should be aroided．Certainly the apparatus now before us has nut dhes charge of complication of parts to go against it．Nuthing cau indeed be nore simple ；it consists of a small silver tube，which is simply insert－ ed in the orilice of the teat，and which serves as a tube by which the malk vessels completely empty themselves．The apparatus has been tried loy several eminent Continental agriculturists，who speak highly of the completeness of its action and the ease rith which it can be used；and whether the fact will lare any weight with our readers or not，which will de－ pend upon the views they liold of the prize system． the appliance bas had a prize awarded to it at the agricultural show held at Amiens last year．llefore inserting the tube，the teat should be filled or sisollen out with milk brought down by hand；the tube is then inserted gently，giving it on its entrance a slight turning motion which will facilitate its passage into the rritlec of the teat．＂

## Bran for Milch Cows．

Prame bran or ship stuff，says the Stock Jowmal，is one of the very best kinds of food to Increase the milk．It is not fattening．A stecr could not be fattened on bran alone，and $n$ cow．if fed on the best of hay nad bran alone，might fall of in her siehd， unless her strength and condition were bept up ly Indian meal．or stronger food．If there were any－ thing in which there would seen to be no strenglt， it is bran－the mere hull of wheat．It is not stimu－ lating like brewer＇s grains，and can cortainly do no harm，if it does no good；and yet any farmer who will make the experiment will find－or at least we have found－thata cow being otherwise kept in a proper condition，her yield of milk will lo rery con－ siderably increased by giving leer twice a day a feed of pureliran．The fact is patent，although we are notable to explain it．If there is any one article． which，rrbile keeping up the health and strength of the cow，willalso increase thesupply of rich healthy milk，in our exjucrience it is cotton seed cako meal． Wo liavo found this to liave a great effect on the milk secreting organs．The corss at first do not geem to relish it，and it sbouk bo mixed rith some other eed，bnt they soon come to like it，and wo have never secn anty bad effects in any way：


## Neeting of the Fruit Growers＇Association，

A meeting of the birectors of the liruit Growers Aㄴucialion，of Ontario．was leld in the Countr Comacil Clamber，l＇rince＇s Squarc．IImmilton，on Mondar． 7 th Sept．，186s．l＇tesent，W．II．Mills，lisu．， lrasident，in the chair，His Itonor Judge Logie，Rev． I．Bumat，Messrs．C．Arnold，A．M．Smilh．I．Sipringer． W．Sammiers，aml D．W．Beadle．
The secretary rear the minntes of last mecting of the Doard，and reported that he had communicated to the Secretary of the loard of Agriculture the resolutions affecting that bods，nud that he had re－ ceived four essays on the cultivation of the apple， bearing the following mottocs，viz．．＂Vive et Disce，＂ －Here＇s to thee，ohi spple－tree，＂＂Fine liruit is the Flower of Commodities，＂and＂The Price of Good Irsuit is Eternal Vigitance．＂
The lies．R．liarnet and Warren Molton，Esig，were appointed judges upon the essays，with power to add to their hamber a third person if they found it to be requisile．
－The Etcr tary presented the request of Mr．W．II． Fient，if lort Dalhuthic，ashing for the appointment of a cummilto to atmine bisseedling grapes，eleven in numbir．The Directors appointed Messrs．If II． Milh，Win．Maskins．Chas．Arnold，A．If．Smith and D．W．Whadlu bata cumaitter，and instracied thena to camine the m on the day after the mecting of the Fruit Growers＇Association in St．Catharines．
Tha buyuest of Mr．Chas．Arnold，of Paris，was phon thed，ushing the appointment of a committer to （ vamine his fise new hybrid grapes．Jfessrs．D．W． In adlc．W．II．Rudd，Wm．Inaskias and Wm Saunders Were appuinted a cummittee to sisit Mr．Arnold＇s grounds an the lith day of Septenber，inst．
Mossis．J．Freed ani A．M．Smith were appointed a committece to as－ist the lloard of Agricultere，if re－ quired，in the arrangement and classification of fruits at the coming l＇rovincial lixhibition．
His llonor Judge Logic，and Messrs．L．Spring r， C．．Irnuh．J．．．A．Mruceand Gco．Leslie，were appointed a committer to cxamine the iruits that may be placed upon the table．Woth at theannual and October meeting．and report thereon before the close of the meeting－．．ng two to be a quorum．

A letter was handed to the Secretary from J．R． Martin，liq．．stating that he had set out to attend the meeting of Directors，but had been obliged to return． Mr．W．Saunders submitled to the meeting a new insect pest，which he had discovered feeding within the sed lieruel of the Clinton grape，causing the berry t．Shrivel and drop prematurely．Mr．Saunders kindly convented to prepare a repolt embolying what was how known of this insect．I resolution was pased thanking Mr．Samulers for submitting this new pest to the inspection of the Board，and directing that Mr．Simuders repoit be seat to the Casabs． Fabmen for publication．
The subject of compensation to the Secretaty－ Treasurer was then discussed，and it was resolved that the sum of one loudred dullars per annum be granted $1 \cdot$ the Secretary， 10 assist in defraging ea penses connered 1 with lis oflice．
The I＇re－ibent amel：cretary were appointed a com
 a repult rum．．．．．．．．．．．．port madu ial 1863 ，and mb mit the same at cune future meeting．

The Secretary was instructed to place a cony o the printed declar．ation in the lands of each of the

Directora. to be wed in obtainiug mew members. The Treasurer was instrueted to place the funds lo may have in hand on deposit. upon the beebterms loe c.an negotiate.

The Secrelary was instructed to prepare the Anranal report of tho proceedings of the ascociation; .Iso to compile the reports of the fruit commities, red the discussions at meetings, and to submut the - bue at the ammal meeting to bo held in tho Court Honse, Prince's Square, IImilton, on Tucelly craning, the 2end inst, at seren oblock.
The ammal mocting of the associatoon wis appointed to be hellat St. Catharines, on Tueshoy, the
 1.1 be contimued though the day and evening. the rnhigects for disension to be the folloring:-
Ariass.-The best rarieties for markin; uev s.rieties: picking and packing for arorket.

Yurms.-Best varieties, and the lust methods of preventing tho llach-knot, curculio, and other inniects.

Ereninn session med at arren oclock.

Grenes.-The best carlicel vis riety; the best varieties for market; soila adapted to the sereral variethes; pruniug ant training.
The Secretury was intructed t, ombody in the atanal icport the articles addresed to the livard on "Ilybridizing:" wh "the lhila AdMhith lanplorry. and uar the Corltin Moth or Apple Worm."
The Board appointed Wim. -.tun-
 riat to the 1 swochation. anme directed that has reports on inserc's
 andiessed to the Hatectors, ibe st it to the Castos l umen fir phat c.ation.

The Secretary was instricterd th inform the members of the atocetation, through the reports of pro. cocdings, that any member of the association is at liberty to semd (charges pre-paid) any specimens of insects to Mr. Saunders, at I.ondon, which may be found injurious to any of our fruits, by preying unon foliage, fruit, flower or stem; and that while Mr. Suntders is willing to receive abid examine these insects, and teport thercon to the association, no member will expect that Mr. Saurders shall to put to expense in the transmission of such insects to lim, or in repiging to any com munications respecting them.
The Board then adjonened to t': 0 call of the President.

## Euglish Apples in Couada,

To the Elutor of T'ur: Canads Fammar:
Sur,-Melieving that the merits of Euglish spples are not yet well known, and that the most valuable kinds do well here, I imported fifteen different grafts. four years ago last winter. I beheaded sereral native apple trees, forming a union betreen tho english and Canadian fruit trees. Though these trees stood on the north side of an orchard amd were prefectly ceposed. yet I have not had one shoot cut back by the frost.
One of tho kinds "Euglish Stubbard" especimens of which I forward) bore frutt the second, third and fourth seasons, and in such abmutamed as to astonish my friend. S. Liolserts, bal. 1 comaliod fortr on tro grafts.

During the mext reasen I ittent to grati two thomami. looping to confer a real bencfit to orchard hropers by ecattering them over the Nesp Dominion.

THOS. HOOPER.

## Culumbus. Sept. 3.

Sorf. $1 . \mathrm{E}$ En. C. F.- Wie commend the enterprise of our correspondent and wish him all succers. 'i be epecimens sent to us were beautiful looking apples. of a creamy colour, somewhat pear shaped. ard of moderate size. They are fall frut, not adapted for horepinge. Flavour is a malter of indisidual opinion, but to us they appeared deficient in thix respect, ewars m owe mesure, no doubt, to orer-ripeness Some winter applea, since received from Dir. Ilonper, are ut beutiful appearance and cexcelleat gavor, wpecally adapted for cooking, and well wo.div of -areful preparation in this romitry.

matter. to which some of the best borticulturiste in America contribute, is interesting and instructire. The journal is published bg J. E. Tition \& Co.. Boiton.

The following is the account of the Witder straw. berrs: - The plant is barily, mbust, rigorous, and rers pooluciec. The foliage is handsome and well dereloped, leaf dark green, rommish, oborate derply serrated, of great substance with stiff, sloot bout stalks, and stands the cextretien of heat and colet without injury. The flower-stalk is stif and erect. the flowers pelfect. Tbe fruit is large, some xpeci mens attaining to more than five incless in circumfer ence; and many berries this year weigled more than one ounce aroirlupois each. Their colour is a bril liant crimson searlet; form obtusely conical; the flesh rosy white, rery juicy, but sufficieally firm for narket: darour rich and pprighty, inclining to sweet, with a distinct aroma of the Alvine or woorl strawberr: ; eceds small; sea-on late.
This variety wav produced in 1861 by Mr. Marahall P. Wilder, from artificial impregnation of Horeg's Sceciling with La Conatante, the best two varieties, perhaps, that are now under cultivation; Ia Constante being the best of the forcign kinds crer luronght to this country, and Molog:s Eucdling being too well hbiown to need any further men than.
For purfectan of form, flavor, a. 1 brilliancs of color, combined, his stranberry caceeds anything anot latis beed droiluced for a bong rorsen of gens.
Mr. Williler has been at woth basing reveditisa fur thithg gears. and aldunght tee lats obtaned ats ewal good ones, he nerer set has got ose with which he is so completely satusfied as he is whth this. The description we hate giren abore is, we beliere, iu substance, the description settled upon by the Irat committec of the Jfassachusetts Ilorticultural Sociels; to whom the question of a name was submitted, and who have called the st:awberry "President Wilder.' We bave no doubt that it will keep Mr. Widder's memory green for gears and years to come; or that, as soon as it becomes known, it will take the highest possible rank amons strawberries, and perhaps supplant crerything clsc."
S. E. Tilton \& Co. hare, we understand, purchased the whole of Col. Wilder's stock, for distribution among the subscribers to tho American Journal of IIorticullure.

## President Wilder Strawberry.

W: have much pleasure in presenting our readers with the accompanying illustration of a new raricty of strawherry, the name of which, and the history of its production, are in themselres no small recomuedation. Its repute is high in the State where it was raised, but how far it rould prove suitable to the climate of Canada remains to bo seen. We are in!ebted for the illusiration to the courtesy of the publiskers of the Journal of Ilorlicullure, from the September mumber of which we also extract the deseription of the strawberry, and in doing so, "oudd ugain cummend this beautiful anl admirable jumand to the notice of our readers. The type and illustrations are in the loest style, and tho readiug
sos The anuual meeting of the Fruit Gromers' $A$ ssociation will be held in the Court House Mamilton. on Tuesday, 22nd September, at it o'clock, p. m.
est All wrinkled peas, bays anexchange, aresuperior to, and moro delicate in faror than those that present a full and perfect form; like sugar corn, the saccharine matter which they contain causes them to shrivel when dried.
Ever-Beamio lisspaemues.-M. It. Dunlap eajs bo travelled much in his time, and sat at the tables of a good many prominent liorticulturists, but nerer was so fortunate as to find these autumn berries on any of then. He adds :-'I I don't waut to yrereat gentlemen who call from furnishing us mult buch fruit ; but I do want to prevent the expectations of the public̣ being rai $\cdots$ too high by :hem."

## Exutamolayy.

## Specimens from a School Girl,


Sim.-I send you threw beantifal rperimens of $\mathbf{i n}$ wese. I hope thers will prove interesting to you, and ifso. I would like fowe then re-produced in pietures in your paper, as 1 have wfen aren before. The epider 1 found on some scarlet beans; the moth in my lumroom; nald the curions fos on a gitl's bat.

## I remain, Sir,

loury reperetfully.
d SCHOOL. Gillit.
Mimico. September.
Note tr Lid. C. I.- Ne were much pleased at recoivint the sbose note, which was neatly and eleariy - riben, from some fair soung correspondent. Vi"e trat: that her example will be followed by wibere amongat cur youthful readurs who desire to know :omething about the many beautiful and curious thiags in natuic. The study of Natural llistory in any of its phases. no mater whester the athention is turned so ferms or tlowers, iasects, fikese or birds, is. we feel satisfied, one of the best means for the improrement of the mental faculties of the soung; while at the same time it renders all the common obiucts in the world around us eources of pure and unalloged interest and delight. In the words of Kingules, in his "Glaneus,"-"I bave seen the voung London beanty, amid all the excitement and tomptation of luxurs and flattery, with her heart pure and her mind oceupied in a bouloir full of shells and fossils. flomers and sea-reeds, and keeping lurriclf unidotted frum the worle by considering the lilies of the fiold, horv they grom."
The spider sent us in a rery beantiful black and goblen-gellow soceimen of these usually rather repulsire creatures. Ite latin name we do not knom, as we have not made a special ctuly of the e useful anlmals. We do uot auppose, inwerer, that our correspondent has nug particular anvicis to be conlightened on that point. The muth is calle the Crimson l'nderwing (Culoca.s concumlrus. Walk.). When its wings are closed, it presenis the appearance of a flat motiled-gray triangle, very hke the bark of the trees on which it repoeses during the dastime; but peep at its underminge, and then you will see what a thing of beauts it is-they are of a rich crimson colour, with a broad black band acress the middle, and a black border fringed with white. There are about twenty diferent linds of theae moths in Canala, some with the underwings of rarious shates of red, some of yellow, some white, all haring one or more bands of black, white others, again, bave these wings entirely black above, bit with the usual bands bencath. Tbe fly is one of those commonly called "May Flies;" (Ephemera); they hare light. gauzy vings and rlender bodies, with long antenne in frort, and two excessively long tails behind. In their first stages they live in the water, some say for as long as three years, but when they obtain their wings, they live but for a single night, coming out at suaset, and dying the neat morning; a few stray specimens, horrever, live sometimes for ten days or a fortnight. Farly on a bright summer morning we have occasionally seen tens of thousands of them dancing merrily in the sunshine orer the shore aud shallow margin of the lake; up-and-down, up-and-down tbey go, enjoying their short existence to the utmost. We must defer any nlustration of these interestung creatores for another occasion.

分等 The coflec trees in Madras and that part of the East Indues are greatly troubled with the coffee borer, an insect similar to the borers we havo had in the acacias

## The Horned Corydalis, or Shad-fly.

Is unt issue of Aug. 1, tre mentioned the receipt of a commanication from Mr. Walter Tait, of Bererlog. acempunied by a specimen of the fermale of this in-ect. (We regret that by a typegraplical error the nume was misespelt "Chad Fly." instead of "Shad Fiy.") He trites as follows:-"Enclesed I semil for your inapection, an insect, which from it peculiarly firocious appearance, has excitcel the curio-ity of crory one who has seen it. Xierer having met with an incedtof the same kind during a ten gears' resilunce in Canala. noe found among old sethers one who had acen whet is specimen, I thought that perlop: it eight be a native of fome tropical country, "hich, in conecquene of the umsually bi whather we have had. may have migrated in our usually more temperate region." The terrible hot weatheror July was cortainly tropica: chough to warrant is in expertise the airent of any monstems dire from the rogions of the equator; the specimen before us, bowever, of which we give an illustration, is not th

be ch.ssed among these, zotwithstanding its portentous aspect, but is a reritable native of Canada. We have taken them from time to tine ourselres, and have oceasionally had them brought in to us by astunished capturs, who not unnaturally deemed that they were prodigiously valiant in venturing to tonch suc.a a horribls ferocious-looking animal. Its looks belie it, however; for, though so big and formidable in appearance, it is one of the most harmless insects that we hare. It belongs to the order Necurcpiera, which includes also Dragon-fies and other netwinged insects-and is celled the Corydalis Corrutus. Its larra is a broad flat worm with six legs, and a row of long spiny filaments on each side of its body, living in the water and preying upon varions aquatic insects. When about to assume the pupa state, it crawle out of the water and hides itself under some $\log$ or stone on the river-xide, whero it is often found by fishermen, who make use of it as bait, and call it by the expressive name of "cramler." It takes about three weeks to arrive at its perfect state, and then it comes out with luge rings to dy alout at night, and provide for the due arrival of a new generation. The jaws of the female that we have figured are by no means small. but they are nothing when compared with those of the male, which, to uso an cxpressire phrase, are "a regular caution," being about an inch long, curved, and crossiog each other in the middlo like a pair of sciesors!

## An Emperor Moth's Cocoon.

We have reccived from " 13 ," who writes from Killcardine, Co. of Bruce, a tin box, enclosing a carefully packed specimen of an Emperor dfoth's cocomon. I: was found, he states, "firmly fastencel to the brame ha of an apple tree, and so recurely did it nellere wind its parcbment-like corering that it required consider able effort to detach it;" as he had nower tom anything like it before, he acmils it to us for indont it cation.
This poll-like cocoon, formed of atrong silken fibres so firmly agglutinated together as aluost to resemble parchment in texture, is the last slage but one in the life of one of our largest and handsomeat insects-the Cecropia Emperar Moth. The caterpillar, which is batched from a round, flatenen, brown and white egg, is, when fally grown, a huge, fit, humped worm, three or four incturs long, and thicker than a man's thumb; it is of a beantiful green colour, adorned mith singular blue, jellon; and coral-red warts on the back. It feeds ca the leaves of apple, plun, cherry, and numerous ollier treng, to a trig of which it athaches its cocoon when done feeding, and there it remains, exposed to the fros: and snow, and bitterest blasts of winter, waftected by them all, realy to come out a beautiful winged moth when genial June comes sound again. This moth is the largest insect we lase in Canada, its rings expanding to a breadth of sis or seren ino'us. We sball not describe it particularly nori, as we purpose giving an illustration of it bu.are long.

## Etouttry gard.

## Fancy Pigeons.

To the Eilitor of Tue Canads 1. rimer: :
Sur,-Perhapsafewmore observations on the Pigeon trile may not bo unacceptable to your yeaders. I am afraid I cannot offer angthing uew, or that may not we found in Tegetmeiers, Eaton: oruther modern works on the subject; but I have found fiw, cren of those who call themselves fanciors, in Canada, know anything, or comparatively anything, abo.st it.
As a rule, the epecimens of pigeons exhibited and kept in Canada are rery inferior. I hone 1 inay not, "catch it" for this sweeping condemation, but it is truth, and the sooner told the beter; and my acvico to thuse who are inclined to beep pigeons is to clear their lofts of all their rubbish, and invest in a fors pairs of the correct specimens, by importation from England. Perhaps it would be as well to give ant illustration of my meaning by reference to a few kinds. I will begin with Carriers. Well, with the exception of my orn, I do not think $I$ have scen a Carrier since I left England. I have seen one or two Ilorsemans, and very indifferent Dragons. Insophisticated persons are very apt to call all these bircs Carriers, but a true genaine English Carrier is a fancy bird, very hard to obtain; and to licep them up to the standard is still harder. Great circumspection is required in the selection of breeding stocli amb matching; and the worst is that neitice this nor any good stock can be had without paying very bigh prices, not justified at present by the demand for them. But then it is useless having inferior stock; so that it is simply do without, or pay the price; and It will then takn from threo to fire, and ou tonine years, toget up such studs as I hare seca at Mayne's Potter's. \&c. There is one good thing about them,-thes are, as a rule, good nurses, and take care of there joung; and my experience of Canada is that it srits them. Tho atmosphere takes liberties with their plumage, especially the "dun;" and due allomance must be made for this at exhibitions. Incled I kuow of no bird harder to judge in close competitioll. For the points of these hirds I must reler jon to Tege'meior's l'igeon Book; it would take up too mach time and space to enter into them here.

These semarks will apply in many points aleo to Touters, few gool specimene being seen. linu will liad a bird willi a large crop, and no lege, short tail. ic., ann no length. The first point in a Pouter is 1 :agh of log, or limh, as it is called; then length of body or feather, and crop, and lavt of all. I say, - wour. Yoa will find well-markel birds in Canada, -int you vill require to be toid thes are l'outers or sat would not know it. I put colour last, on the prinsipte t'sat a good horse cannot be a bal colour, nor a sool Pouter cillier.

With regard to Turnblers of the common rariety, I helieve thery are some good specimens, as far as tumbling anl Dying are concerned. There are some linciers in Montreal who train their fighta. I shoald s.5 the colour is moztly indiferent, but I have seen . nime, though only a few, rery good as to colour, eapecially Almonda. Baldheads are few and for between; Beards are kciter. It will perbaps more phainly illustrate the real status of these birds by saying that any like them could be purchased in lingland for three shillings $n$ couple.

As for Short-fice Tumblers-where are theg: There are a few attempts at them, but the real thing I lave neverseen since I left the old country.
The Jacobins to be seen in Canada are too large. mouses-beaded, long.facel things. often odd-eyed, bad coloured, and inferior in the hooll and chain. There are very ferr good, if any.

At some future time I nay resume the subject, if fou think these remarks of sumfient interest to your raders.
I. C. Imassilit.

## Roup in Fowls.

A semacmer, from Paris, sends the following com-munication:-" dbout a week ago, my fowly were attacked by a loathsomo discase, the symptoms of which are running at the nose, waters egea, dull appearance and gaping. Can you or any of the remlers of your paper give me a cure for it, and tell me what disease it is, and how game forls are more subject to it than any other class of fowls ?",

The disease deseribed by our correspondent is a rery common, contagious and fatal disorder. called roup. We aro not anvare that it is at all more prevalent among gamo fowls than any other variety. We are sorry that we cannot say much on the subject of a cure for this troublesome complaint. If the fowls are not rery valuable, $i t$ is almost better to destroy them than undertaice the frouble of the cutc. or run the risk of the spread of the malady. We will give our correspondent, horserer, the benefit of Tegetmeier's remarla on the treatment of such cases.
"Warm, dry lodging, and stimulating, nutritious food, are the lirst essentials to recorery, in addition the frequent removal of the dricd discharge from
around the ey es and nose, by rarm lathing, must around the eyes and nose, by rarm bathing, must not bo omitted. In the way of internal medicine, various modes of treatment. I bave tried the follorring remedics, viz.: iodine in tincture, mercurial ointment, and nitrate of sileer, all applied externally to the sides of the face, withont any adrantage. Internally I haro given calomel, sulphur, citrate of iron, calomel and opium, cayenno pepper, and sulphato of copper, vithout any rery rell-marked or decided improrement. The Airect application of some remedial agent to the discased membranc promises the best result; bat hero we are met with the diflculty as to the application, for the nostrils are closed up and it is nearly impracticable to pass angthing through them. A very small bent tube can, however, bo readily passed into the carity of the nose through the shitin tho roof of the mouth; and I have tried tho effect of injecting a few aropsof i dilute solution (ten grains to tho ounco of water) of sulplatu of copper, with very favourable results. The Injecting tubo is readily passed into each nostril, if
ingerted into the anterior part of the slit been in inserted into the anterior part of the slit seen in the roof of the mouth, and directed outwards at right augles to tho slit.
"In rery bevare chronic cases, when there has been muchswelling of tho free, I bave opened the side of the face, and remored the diseasell secretion in a solid form."

## Standard of Excellence ir Exhibition

 Poultry.
## CREVE CCEURS.

## IIIR COCR.

Crut-is in Polish Coxk, but perfectis black; whtte feathers a difict, but not a disqualicication.
H7ead-sis in lolinh Cock.
Corth-Bnibant mit two-ho:ned in slapw, but froo of om tynes; Nighty frigec-lat lase, of good elze, stroxtog ken in front of tho crices.
ryr-resh, the ght, and vers vitacioon
thefrers-smill and nearls concoalet.
Far-lime, well mumad.

 some curc.
Brah-Bhack, with horncoloured tip, Atrong and well curreth, with horily archea broal noestrit, as in Polshb.
vice:-Hoderato in lenâth, hilekls backled, well arched, and catriel a little buck.
Drmat-Brivil ana full. canted well formand.
Liac:-Wide, perfictly straight, and freo from deformity.
boly-Lon ; und square.
ilinge-Cleacly set and well cllpmed np
Taul-Fullandample, well fickled, avd carnald rathes crest
Thy hos-Rather short, well set in body.
Ligs-man ar thite, starter tho better, rather doe in bono; freo from feather.
Carrige-lipmagh, rmatt, viracious, and watchrul
Co'our- Dr.llant back; rol or straw foathere in tbe tacklo abd addte undestiralle, but not a disqualificaton.

## THE HEN

Crest-f ull and globilur, as lat tho rolish back; white fathers vidctorable, put not a diequalinatiog.
thad-as in Potent.
Eyc-Full avil bisght.
Deafears-small, hidacn by mumiog.
Mufing-Thici andfull, estendiog rell back to c:esh and forcithe: a thich harnd ueder tho beak.
Hattics-Vicry smoll, and ncatly ronoded.
Nick-Thuck aud a:ched.
Drecst- IVull, plump, and carried well cormand
braly-Square, carried low.
Brel-Straght and troat
Wings-Well clippal up.
Tati-1args and nell capantced
Tirghs-short and well ret into body.
Legs- hort as pross.ble, froo from frathers; mither sanall Io bine,
siate orblack in colour.
Carriage-lpright and viracions
Colour-Brilisnt black; a broun tinge sers undesirabio.

## ronst ix crstx cacr.



Deformity or any kiad.
Coloured feathers clserrbero than in cresh neck, or saldle.
Featherid less, and shants of any colour thas inack or slate.

## HOUDANS.

## THE COCK.

Crest-Composed of hackio fealhers; full, and meil arched, falling bach, and right and leit of combl, clearof the cjo rather than ancrit.
Comb-Well dereloped, large, red and bradehing, broud at basc, well inucnted, looking liko a mass of coral with anticr-liko uranches, tuclinios rather backwash tato tho crest
Scak-Currcd, with nostrils wito and cavernouk, as in Polsen; dark brown colour.
Eyc-larse, fult, bright, anu fivaiy; colour, ratious
Walles-Thita, race long, noatly rounded, and bright red.
Nufing or Deard-Full and thle's uoder beak, and macblos noll bactita a curvo to tho back of eye.
Face-licd; Iessecen tho better.
Brast-Decp, full, 2na planin.
Back-Wide ad straight.
Wings-Moderate, and caricel well up.
Tail-3Ioderato, erect, and well slekied.
$T^{\prime}$ ighs-The flon: ier the better.
regs-Fins in boie, white or sbaded.
Toes-Fivo in number, tho inh curred uprars at back.
Colour-nroien black nud whbte, as erenly broken aspossdble, frec from coloured faathers, which, howorer, though objoclionalle, aro not $n$ disqualifcation.
Carr.acc-Lircly, brisk, woll ect upand splritod.

THE RES.
Crest-Larso, compact, add eren, as Io Folish.
Comb-Emall, branching, and coral lita.
Eye-Full add vight.
Tratles-Small, red, and nealiy roundod.
Muffing-Full, forminga thick beard raching baek to tho ese. Niek-Rather short, full featheret and archod.
Breast- Full and deep.
nach- Tido and etralght
Tings-yoderate, and carsicid closo to the bois.
Taii--yolerale, and fan-like, carrial well up.
Thighs-Sbort.
Legs-Fino in bone, whito or ehaved in enlour.
Toes-Firo in number, the hind or anh claw corred opranis Calour-As in Cock.
Oarriage-Brisk, and rather uptlghi
ronste.

abscoco of crest
Deformilts of any kind.
Hala colone or ground colour oher :lan black and rhito.

## LA FLECHE.

TAE COCK.
Beak-Black, strong, and courved; nostrls wide and carcmous, $2 s$ so Folteh, with emall spot or Lnobor oright red feshat Junction of nostril with back.
Cons-Brachigaind anticrlike, the tro homs pointal stralght up, brillant red.
Ear-dodes-Large, and as whito as poselble.
Head-liong
Eyc-Brighi, large, and ratchfal
Fuce-Red, and rather bare.
Wattles-Hed, joog and penculouk and rornded.
Neck-Long, rather curvel, and uprigbt; hackio thlek, but rather shorh
Dack-Vory long and broad, slantiog toxa:ds tho tall.
Wings-Long, asu well elipped in.
Breast-Droad, and rather full.
Tail-Rather small, and carricd lor.
Thighs-Strong, long, and well set into borls.
Legs-La'S 5 , streng, and black or shato fa colour.
Toes-Four.
Piumage-Cloco and hard, brullisnt metallic black
Carriage- Vers upright, disnited, and watchful

## the nes.

Beak-Black, strong, and curied; postrils arched, proal und casemous.
Comb-nouviaspiked and brancbing, standing well up, or tho
unanches Inclinlog a 1 thlo formard, $\varepsilon$ mall.
Head-licog.
Eye-BHshland watchful.
Face-rial and rather bare.
Deafecart-Small and whlta.
Walles-Red, small and neaty roundod
Neck-Loog and etralght.
axck-Broad, and tapering tomands the tall.
Body-TVide and decp.
Brast-Tiery braad.
Wings-i arge, and well clipped up.
Tail-Small in proportlos, but кell crpandod, and carrica apritil. Thight-Lorg and well sci intobody.
Legs-Iong, well boadd, blach or slaty in colour.
I'lumage-Brillant metallic black, closo and hard.
Carriage-Ciprigbt, algalied, and watchful.


riumage any colour but blacts; presence of crest; feathered legs; deformily of any kind; tegs any colour bat olack or dark.
The above description of the points in French foral does not appear in the Standard of Eiscellence, published by tho London Poultry Club, but is ex. tracted from Tegetmeier's Poultry Dook.

A A sitting hen in New Bedford has come oft the nest with thirty-five chiokens, withont wearing cridoune.


Queries from a New Settler.
A Correspondint requests answers to the following list of queries:

1. Which do you consider the best farming districts in Ontario?
2. Can a first-class cleared farm be had on-lease, as in England, say for a term of seven, fotirteen, or twenty-one years?
3. What capital would be required to properly work and stock a farm of 150 or 200 acres, and about what profit ought to be made on the capital after deducting expenses?
4. I spent, say the first fifteen years of my life on a first-class farm in Fingland, have had experience in three counties in England, have a general, thorough, I don't profess perfect, knowledge of stock, arable and pasture farming. Would my previous experience be advantageous to me in this country, or not?
5. The style of farming I should pursue would be that of some of our best Canadian farmers, always keeping a sharp eye to the minor matters of the concern, purchasing my stock with a view of their growing into money, rather than keeping them for show, avolding, at least for the present, anything like model or scientific farming, but rather endeavouring to conduct my business as a well managed mercantile concern ought to be conducted, viz: to pay for labour and capital. Do you think I should succeed?
6. What time of tha year is the best to take posdession of a farm?
Ans-In offering one replies to the above queries, we must premies that the questions are so general and cover so much graund, that it would require a treatise on Canada to answer them fully. Moreover, he brings up the unsettled question as to which is best, the eastern section of Ontario, from its proxinnity to market, or the western section, from its supposed greater fertility.
(1.) Each section has its adherents, who think that nothing can equal their own homes. We must therefore recommend personal enquiry in the several districts. Fach man applied to will probably urge the claims of his own locality, bringing forward the best arguments in its favour, and leaving out of sight perhaps its disadvantages. For these the enquirer must make due allowance.
(2.) First-class farms can be leased all over the Province on excellent terms for the tomant. Renta range from $\$ 1.50$ to $\$ 4$ per acre, according to the amount of cleared land, the value of the buildings, and the proximity to market.
(3.) Hundreds of tenants in Canada lease improved farms of 100 to 200 acres on a capital of from $\$ 400$ to $\$ 2,000$. Ir Canada, as in England, the more capital a man has on his farm (pronted common prudence is used) the better he will succeed. There is no stated rale here as in Fangland, stipulating for a certain minimum amount of capital in proportion to the number of acres to be leased.
(4.) Knowledge of English farming, and a competent judgment as to cattle, horses, and sheep, are always m immense assistance to a man commencing farming in Canada. Indeed, if his practical acquaintance with land and stock is yet to be acquired, he had better not buy a farm.
(5.) We cannot pass an opinion on this head without nome personal knowledge of the querist. But we oan see no reason why he should not succeed, nor chewing scientific farming.
(6.) The end of winter, or early in the spring, say
ot of March, is a common time to enter on a farm, lot of March, is a common time to enter on a farm,
but there are many advantages in taking possession but there are many advantages in taking possession
in Geptember or October. The land is often left
in poor condition by a tenant who does not contemplate remaining, and who does not therefore think it worth his while to fall plough or manure. The incoming tenant, if he enter in the fall, can attend to these matters himself, and has time to get settled in his new home before the hurry of spring work begins.

## Oaution to Smokers

A Simcoe paper gives the following account of an accident from carelessneas in smoking:-" A farmer in Windham, who was hauling in oats last week, while seated on the load with two little boys, used a match to light his pipe. The match was thrown away apparently extinguished, but directly after it was discovered that the load was on fire. The horses then ran away, a perfect stream of fire pouring from the oats. The farmer was thrown from the load, but the little boys clung to it. The horses were at length stopped by some parties on the road, when they were detached, and the boys rescued from the burning load."

To this our correspondent "Denizen," who sends us the ab ove clipping, adds "another caution to smokers" from his personal recollection. He writes:-"About twenty-five years ago, a frmer driving down Queen street, Toronto, set fire to his load of hay by a spark from his pipe; be was driving pretty fast with a stream of fire in his rear. Passers-by called out and warned him of his danger; but the moment the horses came to a halt the whole load became enveloped in flame, so that he barely escaped with his life. The horses werc both ruined by the fire, and could only be liberated by cutting the hame straps and leading them out of their harness. When I saw the place a few hours after, nothing remained to the poor farmer but his horses, and they dreadfully hurned, with hardly a hair left of their ine flowing tails, and a pile of old tires and irons from the waggon and harness."

Communications Deferred.-Several communications, received too late, or for mant of space, are unavoidably postponed.

## The Cemada fimmer.

TORONTO, CANADA, SEPTEMBER 15, 1868.

## New England Agrioultural Fair,

[Editorial Corrkspondencle.] New Haven, Connecticut, Sept. 4, 1868.
The fifth annual exhibition of the New England Agricultural Association, an organization embracing the whole of Yankeedom, properly so called, commenced here on the 1st inst., and closes to-day. As this is one of the handsomest cities in the United Staten, and owes its beanty chiefly to its rural adornings, a brief description of it will not be inappropriate by way of preface to some account of the fair. New Haven occupies a beautiful plain, at the head of New Haven Bay, four miles fromits entranceinto Long Island Sound. Itis 160 miles sonth-west of Boston, and seventy-six miles north-east from New York, being in a direct line between the two cities. The plain on which New Haven is built slopes gently toward the water, and is environed onallsidesexcept in the direction of the harbourbyhills, two of which, called Eastand West Rocke, are very rugged and precipitous, rining almost perpendicularly from 300 to 400 feet in height. Three small streams flow across the plain, emptying into the bay. They are bridged at several points, in one instance with a draw-bridge, which leads from the steamboat landing to East Haven. The streets are usually four rods wide, intersecting each other at right angles. Those on which the best private residences are built exhibit a particularly neat and elegant appearance, from the fact that the dwellings are for the most part detached, and surrounded with shrubbery and gardens, which are tastefully laid out and well kept. Hill House Avenue, a delightful
suburb, is a paradise of foliage and flowers. But the crowning glory of New Haven is its noble and lofty elms. These have long given it the appropriate designation of "Elm City" and "The City of Elms." The principal pablic square, comprising about sixteen acres of land, is bordered with majestic clms, and crossed by avenues, on each side of which is a row of the same trees. One whole side of this ragnificent square is occupied by "Yale College" buildings. This is one of the oldest and most renowned of the many educational institutions in the United States. The College buildings have for the most part no architectural uttractions, consisting of eight plain brick edifices, five of them four stories high, containing study and sleeping rooms for the students, and the other three, each surmounted by a tower or spire, being the chapel, observatory, and lyceum. In the rear of these plain buildings are some of more modern erection, that havesome architectural pretensions. Chief among them is the hibrary; a costly and handsome Gothic structure, (fire-proof), $\mathbf{1 5 0}$ feet in lengith. The Medical College, a handsome granite structure, stands a short distance farther off. The other three sides of the great square are occupied by stores, hotels, churches, and privatedwellings, while actually on the square stands the State House, a large stacooed building, modelled after the Parthenon. Nothing can exceed the beauty of the elms. No wonder they are the pride of New Haven. Whether singly or in rows, the elm is a grand tree, its variety of shape, and gracefulness in every part of its outline, giving it an indescribable charm. There is hardly any other forest tree that, planted as these are, without intermixture with other trees, would not look monotonous. If this fine elm-bowered square were-surrounded by log-houses or shanties itwould still be a charming spot. It is not from costly architecture that this scene derives its loveliness, but from so cheap and universally practicable a thing as tree-planting. We have often advocated this means of imparting beanty to country homes, villages, and towns, but no language we can find can do justice to the example of its effect as seen in this city. To give our readers some faint idea of a scene which perhaps few of them will ever have the privilege of beholding as we bave done, we present herewith a couple of engravings prepared by our artist from photographs. The first represents CollegeStreet, with Yale College buildinga on one side, and the State House on the other. The second engraving shows Temple Street, the fineat of all the elm-arched avenues that cross the square. Did ever series of Gothic arches present so magniflcent a perspective as this double row of elms? Yet there is not a village in our land that might not have in time just such a natural archway, if the population would only plant trees. The early settlers in New Haven, by whom the trees were planted, have, left un enduring monument behind them which will keep their memory green to the end of time. Therc are some exceedingly fine pablic buildings and privato residences in New Haven, but it is the concurrent testimony of all who have been here, that this place owes more to nature than toart, and thatits chief oharm arises from what might adorn the humblest and most unpretentious cottage home.
But to the fair. It is held in Hamilton Park, a very convenient spot, about a mile and a half from the heart of the city. The exhibition consists of two departments, the agricultural show, properly so called, and the races. It is most extraordinary to what an extent the horse-racing mania has got the ascendency in the New England Agricultaral Association. The managers of the concern seem to be possessed with the idea that without the racen they cannot make the annual fair pay. Hence they not only tolerate, but encourage this objectionable appendage, even to the extent of allowing gambling pools to be openly sold at auction. The same unscrupulous greed which admits racing has led to the licensure within the grounds of such a collection of wretched catch-pemy side-shows as we never asw
buddled together before. It is said that a couple of blood, and other favourite straing, are here. Mr. H. ting up for some years. Among them are "cth lawjers once went into partnership in the city of New York, whose names, when associated on the "shingle" they stuck up, read "Catchem \& Cheatcm." This is probably apocryphal, but it would really seem as if Catchem and Cheatem were the presidingspirits at this exhibition, in the very heart of steady-going New England. The determination to make the thing "pay" seems to have been the ruling purpose, without much regard to the means whereby the end was to be brought about.
The combined attracions of agricaltural fair, races, and side-shows, have proved irresistible to a large natiabe of people. It is estimated that from 20,000 to 25,000 people were on the ground yesterday. The charge for admission to the grounds is fifty cents each and every time, to all non-members. Beside this, admission to the grand stand, where some thousands can have a good view of the racing, is twenty-five cents extra. What with members' fees, admission tickets, grand stand charges, side-show licences and the sale of gambling pools, quite a pile of money must be scraped up. But ortainly the keen dealers in basswood hams and wooden nutmegs, and the class of people concerning whom it is proverbial that they and their money are soon parted, have not as yet all cmigrated from New Englandjto parts unknown.

Barring the objectionable features just referred to, the agricultural display is a good one, and it says very little for the intelligence and public spirit of New Haglanders, that such an exhibition would ndt draw a large attendance of visitors without racing and gambling appendages. fthe live stock,
There is a large,muster of horses, chiefly, however, of the carriage and roadster classes. Some spans are beautifully matched, and really magnificent animals.

Single horses too, of very fine appearance, are numerous. The race-horses are not much to look at, but are lanky, illproportioned brutes, almost without exception. Eleven thorough-breds are exhibited; seven of them the property of W. W. Chenery, Belmont, Mass., and among them are some remarkably good specimens. The general purposes class of horses is well filled, and for practical utility, both on the farm and road, they are all that could be desired. A number of highly promising colts are also shown. The cattle department, as a whole, is in advance of anything in that line which we remember to have seen at any fair in the United States. We certainly did not expect to find such an array of Short-horns. did not expect to find such an array of Short-horns.
Some of the choicest specimens of the Dutchess his attention on sheep, sold the valuable
collection of Shorthorns he had been carefully get-
M. Arms, of Springfield, Il., shows a fine herd, recently prof
ting up for some years. Among them are "6th Duke of Thorndale," and his son by "2nd Lady of Oxford." " 4th Lord Oxford," "Tyke," a threeyear old heifer, and "Gem of Stony Brook," all very choice animals. Messrs. A. J. Cass, Holliston, Mass.; $\mathbf{D}$. Sumner, Woodstock, Ct.; C.Spooner, Bridgeport, Ct.; A. M. Winslow and Sons, Putney, Vt.; and A.W.Griswold, of Morrisville, Vt., also exhibit in the Short-horn classes. The last named gentleman shows " 14 th Duke of Thorndale: of which he is the fortrunate owner. Devons are out in strong force, the chief exhibitors being Harvey Dodge. of Sutton, Mass.; E. IH. Hyde, Stafford, Ct.; Stanley Griswold, Torringford, Ct ; and W. Matioon, Springfield, Mass. A very ncticeable feature among the Devons are the working oxeu. New England farmers wisely make large use of oxen as well as horses, and Devons or Devon grades are the favourites for working cattle. The display in this class is something remarkable, One exhibitor, Marshall $H$. Day, of Chesterfield, N. H., shows two pair of twin cattle all frem the same dam, a good native cow, and sired by a Devon Bull. These four oxen are wondrously alike. Each pair is perfectly matched. One pair, five jears old, weighs 3,900 los., and the other, seren years! old, weighs 4,200 lbs. The younger team is valued at $\$ 600$, and the older one at $\$ 700$. A pair cf Durham grades, owned and exhibited by the same individual, and weighing $3,800 \mathrm{lbs}$., is valued at $\$ 500$. Those who have only seen the ordinary style of ox teams, rough, scrubby, unshod and unkempt, 'can have no idea of the fine appearance presented by a first-class New England ox tcam, groomed: shod, and trimmed up, like a stylish pair of horses. Besides the full-grown Devon and grade oxen, there is a very fine display of steers. The Alderneys and Ayrshires are numerous and of prime excellence. Messrs. Converse and Flagler, of Arlington, Mass., exhibit two Alderncy cows, "Lady Milton" and "Cream Pot," that gave an average of nineteen quarts of milk each daily, during the month o! June last, from which an average of two lbs. twelve oz. each of butter was made ; or twenty pounds per cow, weekly. Messrs. Wallace Barnes, of Bristol, N.J.; John Brooks, Princeton, Mass.; Thos. Fitch, New London, Ct ., are, in addition to the firm already mentizned, the chief Alderney exhibitors. Ayrshires were shown by Messrs. H. S. Collins, of Collinsville, Ct., and W. Birnic, of Springfield, Mass.,
TEMPLE STREET,-NEW HAVEN. Windsor Locks, Ct., who having resolved to co centrate his attention on*sheep, sold the valuable M. \& D. Wells, of Wethersfield, Ct., and Thomas M. \& D. Wells, of Wethersfield, Ct., and Thomas
Fitch, of New London, Ct., who have some excel-
lent animals. The last named gentleman shows some fine Alderney and Ayrshire Grades. Dutch or Holstein catti: are exhibited by Mr. W. W. Chenery, of Belmont, Mass., who has no fewer than twenty-six head of these cattle on the ground. They are clumsy and rather coarse-looking animals, invariably black and white, mixed and mottled; the cows, from the size of their bags and escutcheons, ought to be good milkers, but we do not know of any special advantages they have over other good breeds beyond this, that they illustrate the proverb, " variety is pleasing." There are some excellent specimens of native cows, that we should take to be fine milkers. Two side shows of extra fat cattle invite the patronage of visitors. One of "Lady Hampden," three-fourths native and one-fourth Short-horn, said to weigh 4,060 lbs., and the other of "Gen. Grant," a seven-eighth Durham ox, pure white, reputed to weigh $5,100 \mathrm{lbs}$., and owned by Carlos Pierce, Esq., Derby, Vt. The show of sheep is very lair, but not so extensive in the Merino classes as might have been expected consider ing that the fair is held so near Vermont, the paradise of "American Merinos." They are in more than due proportion to the rest of the sheep classes. "Golden Fleece" is here, the marvellous "critter" for which $\$ 15,000$ has been offered and refused. One does not know whether to regard the offer or the refusal as the greater piece of folly. The owner of this paragon is Mr. E. S. Stowell, of Cornwall, Vt. Messrs. L. J. Wright, of Weybridge, J. D. Wheat, of Putney, and J. Holden, of Westminster, all Vermonters, also exhibit in this class. Mr. Burdett Loomis, of Windsor Locks, Ct., has a very choice and valuable flock of Cotswolds, fifty in all, and among them some costly importations from Messrs. Garne and Lane, and other noted Eaglish breedexs of Cotswolds. "Senator," "Sir Robert Napier," and "Duke of Edinburgh" are splendid rams, and are matched by ewes of equal excellence. Mr. Byron Loomis, of Suffield, Ct., cousin of the last named gentleman, is also laying the foundation of a Cotswold flock in some valuable importations which he exhibits. Mr. Sherman Hartwell, of Washington, Ct., has also some good animals of this breed. A few Southdowns of medium quality are shown by Mr. H. L. Stewart, of Middle Haddam, Ct. Mr. Chenery, a.lready mentioned, exhibits a pair of Lincoln sheep, first-prize takers at the Royal Agricultural Show at Bury St. Edmonds. He has also curious specimens of the Caraman or flat-tailed sheep, with huge flat tails weighing thirty or forty pounds; of the Texel or Mouton Flandrin sheep from Friesland; and a pen of very pretty, snow-white Angora goats. Only a few swine are shown, chiefly Chester Whites. There is a pen of Suffolks and another of Yorkshires. The poultry show is very meagre, and only a few of the coops are really good. A patent hen's nest, intended to seclude the hen while laying, is exhibited. When the fowl steps into the nest, a pair of doors, perforated with holes for ventilation, close upon her, and when she steps out of the nest the doors open for her exit. A patent water fountain is also shown, which seems to work well. The patentee of the nest is Mr. Hiram Stevens, of New Haven, Ct., and of the fountain Mr. R. D. Blinn, Lexington, Mass. Before dismissing the live stock, it will be proper to mention that some artificially hatched trout, a year old last April, and averaging a quarter of a pound in weight, are exhibited. Their size surprises every one. Several parties in this country are now engaged in the breeding of trout, and "fish farming" bids fair to take rank beside "fruit farming" and other modern agricultural improvements. The trout exhibited on this occasion were raised in "Cold Spring Trout Ponds," Charleston, N. H. Spawn may be procured at $\$ 8$ per 1000 , and young trout at $\$ 25$ per 1000 , A:n. Cy., by sending orders to that address.

## implements.

A most varied, extensive, and excellentassortment of agricultaral tools, machines, and implements is col-
of notice would convert this narration into a catalogue. To begin with ploughs, here they are of all sorts and sizes, stubble or old ground ploughs, greensward ploughs, deep tiller ploughs, self-sharpening ploughs, deable mould-board ploughs, sub-soil ploughs, side-hill ploughs, gang ploughs, reversible ploughs, prairie ploughs, and last, but not least, the Doe plough, which took the first premium at the New England Fair in 1867 over sixty-three other ploughs that competed with it. The "Ames Plow Company," of Boston (they reject the "ough" mode of spelling the word) are the chief exhibitors of ploughs, and indeed implements in general. Everything they manafacture is of the very best material and workmanship. They have nothing here specially "fixed up" for exhibition. Everything is just as it is kept for sale in their storehouses. We advise Canadian farmers to send for a descriptive catalogue of what this firm manufacture. The Doe plough is made by Whittemore, Belcher \& Co., Chicopee Falls, Mass. Collins \& Co., of Hartford, Ct., show some very nice cast steel ploughs. All the standard reapers and mowers are here, and among them the actual machine exhibited by Woods at the Paris Exposition, a very highly finished and sweetly working, machine. A large and fine assortment of "Clipper" mowers and reapers is shown. We observed nothing new in this department, and do not expect to do so, until some one invents a binding attachment, which we are sanguine enough to believe will yet be achieved. There are plenty of horse-rakes, the only novelty being "Howard's Carriage Revolving Horse Hay Rake," very much the old style of thing, with wheels attached so that the driver may ride. It is exhibited by S. S. Westbrook, of Kingston, Ulster Co., N. Y. Several styles of hay tedders are shown, and this valuable instrument is evidently growing in favour among'American farmers. Webb's improved horsehoe, made by Dunham \& Currier, of Bangor, Maine, looks like an effective means of saving hand labour. Horse-hay forks are not so conspicuous as they usually are at these exhibitions. The harpoon fork is the only one that caught our eye. Feed cutters are in great variety, among them one which is a re-
vival of the old lever style of thing, but the arm is all of iron, so giving a heavy down stroke. It is cheap, and said to be effective. Certainly there is no machinery to go out of order. Whittemore, Belcher \& Co., before named, show this feed cutter, with many more of costlier make. The "Union Horse Power," exhibited by Ames Plow Co., is a very simple, easily-worked, and efficient tread power, on a much more gradual incline than machines of that kind generally are, thus rendering it less toilsome to the animals pat on it. Seed-sowers and wheel hoes are shown by Whittemore, Belcher \& Co., and others. A new style of farm dumping waggon is exhibited by
the " Dump Waggon Co." of East Highgate, Vt. It the "Dump Waggon Co."" of East Highgate, Vt. It
is the best thing of the kind we have seen, and we have inspected several. We shall try to give an illustrated account of this contrivance in a futare number, as it is very simple, and capable of being adapted to any ordinary farm waggon. Two novel styles of hand-hoe are shown, one "the adjustable hoe," so arranged that it can be set at different angles to the handle, and the other, "Allen's patent
weeding hoe," with a double-edged blade of large weeding hoe," with a double-edged blade of large
saw teeth, said to be "death to weeds." Two inventors exhibit adjustable carriage poles. We prefer the one manufactured by "The Bishop Adjustable Pole Co.," New Haven, Ct. It is strong and to any single or double carriage or cutter. An excellent cattle-tie and ox-bow fastener are shown by an agent of the "Stanley Works," New Britain, Ct.

## mascellaneots.

Dairy requisites have scarcely a place in the exhibition, and charns, which are usually quite a feature at these shows, are conspicuous only by their absence. There is, however, an improvement of the old churn-
dash which we think well of. The patent embraces "the hollow-plunger principle," and the "pyramidical, cone, dome, and hat-shape," from which our readers may, perhaps, glean some idea of it. "The
Patent Churn-dash Co." of Hartford, Ct., sell it. An invention of some importance to factory dairymen is exhibited. It is "Peck's Milk Cooler," intended to take the animal heat out of milk as quickly as possible. It consists of a coil of zinc or rather metallic tubing, in a sort of half-barrel tub containing ice
water. The milk is passed through the tubing, and Water. The milk is passed through the tubing, and and completely removed by this process. Fowler \& Barnes, of Northford, Ct., sell this machine. We commend it to the notice of Canadian dairymen, as the simplestand bestcontrivance for the purpose which We have met with. Several descriptions of farm gates are shown, but there is nothing particularly new in this line. Fruit baskets in great variety are exhibited; among them we like best the veneer fruit
basket, made by "The Beecher Basket Co.," of West-
ville, Ct . Nice grape-packing boxes and crates are shown by the "American Basket Co.," New Britain. Ct. "The Atlantic Water Elevator" is a great im provement on the well-known chain pump, by which the tubing is dispensed with, and the water bronght up in small galvanized iron buckets, which alternate with long links in the endless chain. A. Austin, Norwalk, Ct., is the maker of this elevator. J. Harris \& Son, 76 Kingston St., Boston, exhibit beautiful gilt weather vanes in great variety, suitable for barns, churches, and other public buildings. A patent grapple with a holder, which can instantly, and without a ladder, be attached to a beam or rafter for elevating purposes, is shown by Hawley, McClure \& Co., Utica, N. Y. Galvanized iron trellises, neat, light, and pretty, for garden use, are exhibited by W. W. Wilcox, Middletown, Ct. All carriage-makers, and everybody who, owning a wheeled vehicle, would have it run without noise and excessive play at the wheels, will do well to make a note as follows: "Raw Hide Washers, for sale by the Darrow Manufacturing Co., Bristol, Ct." They are the very thing; cheap, solid, absorbing oil enough to lubricate them sufficiently, and yet not softening asordinary leather ones do. They are made all sizes, from that of the smallest buggy axie to threeand a-half inches outside diameter, and cost from $\$ 2$ to $\$ 4$ per gross, American currency. The same company make untanned leather doll heads, that look as nice as wax and will bear any amount of knocking about by rumbustical babies. Housewives, attention! here are a few items worthy your notice. A suspension egg-carrior for sending eggs to market or keeping them at home-each egg being suspended by itself in a little calico bag. We, unfortunately, omitted to make a note where this contrivance is to be had. "Excelsior bread and meat cutter," which cuts a round of bread, cake, or beef-steak, smoothly and of uniform thickness, withmathematical precision. Sold by Corbin and Tarbell, Worcester, Mass. A patent mincing knite, which gives not only the guillotine stroke, but the drawing stroke. This is a very nice kitchen tool, price $\$ 1.50$, and made by Ketchum \& Lond, Winchendon, Mass. A more costly affair for larger mincing and chopping operations is made by the "Athol Machine Co.," Athol, Mass. "Davis' Patent three minute Cake Mixer" is advertised as "the last scasation." For confectioners, hotels, and large families, it would be very valuable. It is sold by J . H. Rowland \& Co., No. 192, State St., New Haven, Ct., and.costs from $\$ 3$ to $\$ 5$, according to size. The "Common Sense Nutmeg Grater" prevents rasped fingers and waste of nutmegs. It may be had of $T$. Smith, Jr., 63 Union St., Boston. "Russel's Patent Fruit Seeder" takes the stones out of cherries and the seed out of grapes instanter. Made by Dow \& Spraguc, Birmingham, Ct., price \$1.50, A new peach paring machine, which will pare potatoes to a charm is shown by D. H. Whittemore, Worcester, Mass.;
price $\$ 10$ per dozen. "Jeffrey's Reversible Griddle" is a very ingenious contrivance for turning batter cakes to a dead certainty "as you like it." Address E. A. Jeffrey, Trappe, Talbot Co., Md. Leaving tho kitchen and going out of doors, we would call the attention of quarrymen and stone-masons to the "Little Giant Stone Drilling Machine," which drills away at granite very much as a wood-boring maching would do at an oak log. It is to be had of Her mange \& Ostrander, Schuylerville, Saratoga Co.
N. Y. Blacksmiths would do well to examinc "Stephens' Parallel Vice," sold by Messrs. Stephens 91 Liberty St., New York.
In closing this detail, we may add that there is nc show of grain, seeds, roots or vegetables; the display of fruit is meagre; the exhibition of flowers no way remarkable; there are no bee-men lecturing on hives and bee-charms; and no dairy products are to be seen An address by Dr. Loring, President of the Society, and two evening discussions, one on the "Breeding were interesting and instructive, but we must not attempt even the briefest synopsis of them.

## Stray Notes of Travel in the United States.

## [Editorial Corrisspondence.]

## New York, Sept. 8, 1868.

Our former communication closed with some account of that rural glory of New York, Central Park, and as the subject was by no means exhausted, it may not be amiss to resume it, so far at least as to make a few remarks on parks and avenues in general. It is said that a Park-making furore prevails all over this country at this time. 'Tis well. Worse furores might prevail. May this one cross the lines and have a powerful run in Canada! It is much needed. Our towns and cities might have rare sylvan beauty very
varll!, if out prople would only take some little troanco in the mater. The chict feature in parks
 becured. It ewery owner of a village, town, oa chy lo: would but plant trecs in front of his property, low oon would therebe'beaty all acound." brook1.11 t. wing with خi r, Xorkin parh making. I'rospect 1 . rh in lurooklyn tries 10 rival Central lark in New torh; but while very bemtiful, and seareely lees ex" : ars, it lachs some natural adrantages possessed is Central l'urn. But If oohls a certunly beats New hork in the matter of arennes. Sew York has nothing that approaches Clinton Aveme in Brooklyn It is a gem of raral want, broal, with spacions Hlin-stone walhs, wade, well-liept grass borders; and lons of magnticeat trees. Un cither side, well back fiumthefiontfence, are palatial mansious, with flower Eahlas, consersatorius, and shrubberies about them Here duchl merahat prances and milhonares, but the poorest individual in the etty can wals beneath these mejestic trees. and feast on all this flomal and leribaccou. lebrine-s. At the peeset time, a tlower mg shrub, almost atiaming tree proportions, and commonly linown as the "Rose of Sharon," is ia full bhum, and rery beautiful it is. The tiowers are l.arge, betl-shaped, and of various culours, not unlihe the hollybock, and like it both single and double. There is also a magnificent white lils, with large, loug trumpet shaped funcrs, in fall bloum, which is a very showy, attractize object in theso gardens. Creepers are largely grown, tropocolums aud the eypress vine seming to be farourites. Iry may be seen creeping up sume of the buidings, as though it wintered out of doors her:. Do doibt the near re cimage of the ocean modilies the climate considerably, and enables things to be grown which connot be culurated out of doors on the same parallel of latitude mand.

Large numbers of geats are lept in the suburbs of diw Juh and Jrooklyn, mainly fur their mith, Huugh they are dra en in chaldren s carriages, making a very pretty appearance, white not a few, owned by the poor, draw curt 3 laden with swill and offal. It is s.wd that un caterprising indisidual is going to start a "goat luery close to Central l'ak, and hire out goat earrages for children to take drives in. We are satisfied, after experimenting for three years with l.cem, that guats are well worthy of being hept fur muking parposes. If goats of good milch stock are obtained, their yicld of milit is by no means incon-- ulerable in quantity, while its quality is so rich that " may be diluted one-third with water, and still be rqual to cow's milk. Fur inralids and delicate chilIren, gonts' milk is invaluable, as it possesses some peculiarly nutritions quality, desiderated by such as .re low in vitality.
The ollce of the -1 mericen - Igricullurist, now remored to larger quarters on the opposite side of the city Lall Park to that on which it used to bo located, is well worth risiting. The premises are very extensive, and divided into departmental onices. Besides the business of the paper, the circulation of which is something fabulous, a large trade is done lere in agricultural and horticultural publications. Mcssrs. Urange, Judd, © Co., the proprietors of the Agricudturish, publish largely themselres this class of books, and also keep in stock the issucs of other houses in the samo linc. So many works of this description are now extant, that an cxtensire and costly farmer's hurary can realily be made up of them. Thesecond story of the Agriculurist building is occupied by Mesers. Whatluck \& Co., as a gencral Iforticaltural dzency. Hereafreefrutand dowershowis constanily gologon, anderery Thursilayafternoona horticultaral inecting is held for tho discussion of questions interrexing to profersional and amateur nardenors. The thscussion is precelled by tho reading of a paper on some subject previousis chosen. Wo attended one of theso discuscions. A paper on "Tho Profits of Fruitgroming" was read by 3fr. A. S. Fuller, nuhor of a
tained diachas ea ivalu...d. Frait enhare seems to be one at the buics o i day here. Many persuns lave fone into what 1 . ealed truit-farminger, and tind it pay well. There 1


 have since seen ham sell at ensece that prece; and at

 gol in Toronto o: Montreal. Camadians are at beefcating, and Auseceus a fratberning prople. Narhet gardening and trut-gtobnay are by no means mones-
 here. In the vicinity of all the langer American cities, there are bumbers of peoplo who are gettang rich by raisind veretahbes and hatat for the marheis
 S. A. Phe, propheiur of phe Upera House ${ }^{\circ}$ in this city, hate underabea the rechmation of extensive flats just neros; the 入orta litree from New lork, and iat the adjuent state of iven Jerseg. These flats
 wet and harshy, 3 whans widy it buy cuarsed seription of hay, and heretore, were considered of rery little value. The tract has 1 : en purchased by the "Iron IJfle Cumpang, asit is termed, at a fery low figure. It is bearg putected ifum the sifer by a lered or dgke, which cunsasio partly of dirt, and partly of a continuons pate of iron. This contrivance prerents leaks in the s the bemy occasionch by the operations ot moles. muetritt, de., and affords great support to the monnal of eath. Ithedsing is to licep vut the tide water ; the ordiuary lesisht of the rirer is below the level cif the lamd. When the dying is finished, it is intended to dry t... luad by cutang ditches, guarded at the oatheis by slaters wheh can be shat at high tide and opened at luw the. A portion of the tract is alrendy fansied, and has been cultirated the present sason, and st is cexpected that there wall be luvu acres acady for tubise log neat spring. It is the intention of the proprecors to lease this lanalwhich they cm do at sinj an ace. The soil proves very rech, and well adapted to gardenipg parposes, to wheh it is expected the whole areat will bo deroted when it is readivine use. The cost of these improvements; will nat bring the onthay on the land higher than Sliour $\leqslant 20$ ban aere, and already the company has been ofreal Sou per acre for portions of it. 'Ths is what amerscun, cial a "bir thing." It
 ably to the hather-a....tenmer capab. litues of the re-
 nalness of the caty and entuons, lessea the number of mozquitovs, wheh a.e wisy numeaous and savage, as we huow to unr survw, sum brage a golden stream of weath to the colters of the forthate in dividuats concerned iathe chterprise. Moreover. it will lead to similar undertahings in the viciange of other large chtes, and wath betow on teen litio benclite.
We spent ais entre afternoo: in that most ueautiful city of the dead, "Greenwool Cemetery." To to this nuted spot anything lade just.en, we must derote a whole article to it gome tinir. It present we find it necessary, mach ngainst our will. to chamiss it with a paragraph. Nature and art hate bated hero to amelorate the reputsirences of death and the gate with wonderful succes. $\operatorname{lt}$ is didicult to realize that it is a burial place, for yoir feel continually that you are in a lorely park crowdel rith statuary. The ground is full oi natural undulations, which hare beea turned to the best account by sliiffal landscape gardening, and so there are hills and vales, mounds, nooks, dells and sequestercd places, wills carriagedrives and foot-paths gracefully windiug in all directions. Erery spot partitioned by roads or "allis is named, as aro all the arenucs, alleys, and paths, each having its designation rery natly shown oa a small guide board, supported on an iron pedestal or stand. Deciduons and evergreen trees in every siyle of leafy beauty adorn theso grounds, mat mako them far moro a secue of lifo lan of death. Many of the moauments are exquisitciy chasto and clegant. Mas sachussetts and Aberdeen granito marrellously polished, marble of crery description, and stones in such varicty as miglat puazio a geologist, ane here, built into nausolcums, sculptared nhes'onopictnres of the dead, read in lofty columns, or emplosed as humble andsimple memorial tablets. Screrilmiglitbe cnumerated wero wo giving a detaberd account of Grecnmool, suntico it to e,ay that. of all no sarr,
nothing so thoroughy please $l$ nothing 60 thoroughly please $l$ us as a costly joc
simplo structuro in whito marbic. recently erectid by James Gorion Ifenant, of tho lan loik Jirn'd.
 is a mother in mode ra attire, tine su, ippuro shouting the silk finish of her diecsa find tine very figaring on her lace eland, lingering it the spot, amd hooking checrfully untrard as inrco cherub forms ascend heavenirard. The enture conception and rxecution
form a auster-piece for a Cliristian burial place

The main charnan is Greennuoul Cemetery consista of a vary noble fatway, cmbatang a series o!
 sent - such as the "hasing of Lazarns," \&c. As sou , acend the lath from the main catance you have a tine siew of the sir r, shippiar, New York. de., and farther on in the gromaly yon get very beantiful climpses of these objicts. la onn place, called Ocean Intl," you beboh in the distance a tery - Ocean Intl, you

Much too hurriedy we mast make a briel note of visit to the farm of Nev. Ilemy Ward liecher, at
 pleasuntly in the socicis of tie gifuel praprictur abil his interesting family. Mr. Heceler's firm cunints of thiry-six acres, laring a hartow frontif . and sloping up a considerable diatance from tiuestectel of table land below, so that at commanis it fine panoramic siew of the picturespae regrian abont Pectishal, and tahes into the secnery a beautiful sireep of the Madson river. I he buildings coasist of the oziginal farm honee, somew hat improved since it came imo Mr. licechen's posessiuth. and forming a

 and curacing the taste at once of the architect and owner. JIf. Ficce:ter cultuates lis doman iat the meantame as a reqctable atal frust fom, and it reflucts no shanl credic to his management lhat last sear the sales offit amomet el to $\$ 3,600$. Aa aremage of S100 fees acr. Por comete mus. be rechoned tio wages of Euven men dubing lle nor! inte fexon. watiny for
 and suye practacal farma than we expected to find him. Nle maderstand; the thery and principles of arricaltare thoroughly, and is making iatolligent appheation of them on has hit.le cstate, whict he is inamang nut so mueh for the sale of present profit, as will an cye to mahing a pleasant hone when ho retires from antiic manisterial duties. Mo.t of his land las been thoroughly sirred to the depth of fifteen inches. It as thordithly enriched whin barnasad and artifici.! thanares. L!ple, pear. plum, and peach orcharls are planted. and a large vineyard ect out. Theseare protected by erearecal sereens and hedges, or rather but he whea the 30 mas tres becume luge cnough. shate asal unameatal trees ate growing up to adora a pol which atready possesse extraordiaary atractivas, and vill be a deligitful place when the owners plans are carried out. Mr. Jecelher has large plantaco.s of stanbertes, baspberries and blackbersecs, stows ..uly poutoc.s, lima beans, melons, "rata haras." and sweet cora catensively. and hasnot onls abrightand beation aray or howerbeds close to his honec, b at seems to give them promiscuunsly a! ourr lis farm. A goul-sizell patch of $\cdot$ ratit Lugas wiswede tarnips, os se shoald call them.) i? fiaked with three rows of dward asters which are just coming into profuse bloom. Mr. Beecher is pasionatedy fond of hothere, and lihes to have them wheser he is, eben in the palpit. We nere glat to lcara from him that his cample of high farming is deing his neigibours good, and that a perceptible improvement las take: place, siace his advent. in the style of husbandry about Pcekskill. Such will always be the effect of growing uniformly goon cropes through the combined applic:tion of liberal manare and skilled labour.

## Distress in Red River.

In coneifucuce of the rarages oi grasionpuss. the North-west Territory of lied liver is almost destitate of crops, and scrions apprehensions ate enter:ained in regard to the food supply for the coming winter. The Nor W"ester contains an appeal for help to frienis i - Englamd, Canada, and the Toniledseates. We focl aswured that this call unon the symuatioy and benesolence of those who hare during the preseat sear received in such large measure the bounty of Proridence will not be made in rain. Mectings hase already been beld in Toronio. Ilamilton, and other cities of this l'rorince, wo take the subject into consideration, and actire measures are being taken to raine funds to reliere as promplly as passinion the wanta of the sufferers by this groat calamity In former gears the abundance of buffaloes in the terri lory has miligated the effere of any searcity in the a 1 , batin consiquence of tho dispreion of these wihl hords, resulit 5 from the itereasing occupation and settlement of the land, this scource of aclief is now cut off. We heartily commend the case of ons fullow-countrymen to the good fecling and libematy of the farmers of Canada.

## giterary zotices.

## The American Entomologist.

Edited by Messrs. Benj. D. Walsh, Rock Island, Ill., and C. V. Riley, St. Louis, Mo.; published monthly by R. P. Studley \& Co., No. $10 \pm$ Olive Street, St. Louis, Mo. No. 1, September, 1868. ['rice, $\$ 1$ per annum.
We gladly welcome the revival, in another form, of that most useful periodical, the Practical Entomologist, whose untimely demise we lamented not long ago. Tlee present undertaking, though similar in its objects, is now being carried on under the auspices of no society, but entirely as a business enterprise, by business men, and upon a business footing. With two such men for editors as the State Entomologists of Illinois and Missouri, who have been well known to the scientific world for their writings and investigations, and to the agricultural world for their practical work, the one in the periodical above mentioned, the other in the Prairie Farmer, we do not doubt that the proprietors will find their enterprise a successful one, while the farmers and gardeners of the continent will glean from its pages information that will save their pockets, collectively, many thousands of dollars per annum. The first number, which is now before us, consists of twenty large octavo double-column pages, well and clearly printed, and illustrated with nine wood-cuts from the pencil of the junior editor. All the numbers are to be well illustrated, and it is the intention of the publishers to furnish at least one coloured lithngraphic plate in addition with each volume. The contents of the present number are varied and interesting, and written in an easy and lively style; the first article, which is of an introduckary character, proves most conclusively the need of such a journal, and the importance to all of the practical study of the nature and babits of insecta. The following sentences, which, considering tbe devastation of such a wide extent of western country by locusts this year, (witness the appeal for sid from the Red River Setlement.) we do not believe to be exaggerated, are sufficient of themselves to prove this:-" We are certainly speaking within bounds when we assert that, taking one year with another, the United States suffer from the depredations of noxious insects, to the amount of Three Hundred Millions of Dollars. We by no means maintain that it is possible by preventive measures to save the nation the whole of this gigantic sum; but we do contend and firmly believe that it is perfectly practicable, by long-continued observation and careful experiment, to save a considerable percentage of 'this enormous sum total. It may, and probably will, take many, many years of hard work in the field, and anxious deliberation in the closet, to arrive at such a result; but in the meantime every step that is gained in advance will be so much money saved to the community. Suppose, for example, that during the next two or three years preventive measures should be discovered by which the total annual damage inflicted by insects is diminished only to the amount of one-half of one per cent. Then, according to the data above given, the nation will gain annually, for all time, to the amount of One Million and a Half Dollars!"

We are requested to state that, as before, in the case of the Practical Entomologist, persons in Canada desirous of obtaining the American Entomologist can procure it, postage free, on remitting one dollar to the Rev. C. J. S. Bethune, Secretary to the Entomological Society of Canada; the difference in exchange plys both the American and Canadian postage.

Indian Corn-Its value, culture, and uses, by Edward Enfield, published by Appleton \& Co., New York.-This is a complete and highly practical treatise on the culture of Indian corn. This impor-
tant grain is not grown in Canada to the extent to which we believe it might be with advantage and profit. The soil and climate in certain sections of the country are well adapted for this noble cereal, and we hope to see it more extensively cultivated by Canadian farmers. We commend the above work to their attention. The subject is treated concisely, yet very fully, the following being the principal topics successfully treated: Varieties; adaptation of varicties to soil and climate; average yield and productiveness; selection and preparation of seed; planting, after cultivation, harvesting, and storing; enemies and diseases; stalks and leaves as fodder; and finally, its various uses and economical value. The agents for the sale of the work in Canada are Messrs. Adam, Stevenson \& Co., Toronto.

The Cofntry Gentleman's Magazine.-We have received, from England, the first number of this new monthly periodical. It is a handsome magazine, octavo size, beautifully printed, with clear and large type, and containing 180 pages of valuable and interesting matter. With this is incorporated the Journal of Agriculture, an old established magazine of the highest standing. Most of the articles are reprints from the Farmer, (Scottish), a very convenient way of preserving in suitable form the most important and permanently useful matter of that foremost in the rank of British Agricultural journals. The letterpress is illustrated with well-executed engravings, and the whole would form, at the end of the year, a goodly volume of agricultural literature.

Whitlocr'sHorticcltural Recorder.--The August number (No. 2, vol. 2) of this publication is full of valuable information on horticultural matters. There is appended a prospectus and catalogue of the "Perpetual Exhibition, or Agricultural Bazaar,' referred to in our Editorial notice of the establishment of the American Agriculturist.

Ellwanger and Barry's Descriptive Catalogue of Friti.-This catalogue, just received from the proprietors of the Mount Hope Nurseries, Rochester, New York, contains, as usual, a very full list of fruits adapted for the United States, and most of them are well suited for our Canadian climate.

O'Keefe \& Son's Catalogce. -We have also received from M. O'Kecfe $\&$ Son, of Rochester, a Catalogue of Fruit Plants and of Dutch Bulbous Flower Roots-complete and excellent lists.

## gavirultural zutulligence.

## Agriculture in Scotland,

hill farming-balmoral-tree planting-turnip CULTCRE-LOWLAND FARMS, \&C.
To the Editor of The Canada Farmer:
Sir,-I wrote you last from Aberdeen, immediately after the exhibition; since then I have enjoyed the opportunity of seeing a large portion of Scotland, and of having much personal intercourse with farmers and others engaged in the various industrial pursuits of life. I have attended several markets, fairs and local shows, affording me the means of much valuable information, and also of imparting information respecting the resources,'\&c., of Canada, in which I found great interest manifested in several localities.
"Hill-farming," as it is termed in the more mountainous districts of Scotland, presents many points of interest to a lowlander or stranger. The extent of such farms is often estimated by the amount of cattle and sheep they will maintain, and not by the number of acres they contain. In some parts of the Ilighlands it requires two or three acres to keep a sheep all the year round, and it is surprising to find how large an area one shepherd, assisted by his wonderfully sagacions dog, can manage to superintend. These dogs, which are generally well trained, are indispensable among these bills and rugged precipicesin the manage-
ment of sheep, and are infact of much greater service for such purposes than men. In fine weather sheepfarming in the Highlands is a very plcasant and healthy occupation, but like most other pursuits it has its dark side; the rain and snow storms common to these regions at certain seasons, render the shepherd life one of much anxiety, and sometimes even of privation and hardship. In extreme cold and boisterous weather the shecp are collected in the lower grounds, and temporary protection afforded them, and, perhaps, a little hay, turnips, \&c., given them; but as a general rule, they have to forage for themselves all the year round, and, with proper attention, it is surprising how well they do. The black-faced or heather sheep is the breed that universally prevails through all the higher districts. They are beautifullooking animals, horned, the males most gracefully so, extremely hardy, slow growers, and yield the best mutton in the world. They subsist on the coarse grasses and heather of the hills, and the flavor of their flesh is peculiarly savoury, with an exquisitely short and tender fibre, when kept for a few days. I more than once partook of mutton from four years old wethers, by far the finest I cver tasted in my life; much superior to the Southdown, and even to the Welsh mountain breeds. This high degree of excellence, I was informed, could only be attained in animals fully matured by age; a rule that obtains in other of the domestic animals besides mountain sheep. The West Highland cattleare beautifullittle creatures, and their beef is of very superior quality, fetching, with the mutton, a higher price to the extent of a penny or more a pound than the larger and coarser breeds, in the London and other English markets.
In the Western Highlands, where the climate is excessively humid, and sheep suffer more from wet than coll, the practice of surface draining the slopes of the hills has been introduced with very salutary results. Small furrows are made by the plough or spade, according to the inclination of the undulating surface, so as to give the water that falls in showers a more ready exit into the lower or natural channels of drainage. This is found to render the surface drier and warmer, to induce the growth of grass of a better quality, and prevent, or at all events mitigate the foot rot. It is a common practice to set fire to the heather when it getsold and scrubby, thusinducing a new growth, which is much coveted by sheep. In some of the lower slopes I learnt that the application of quick lime had been found most beneficial to the natural pastures, swectening and improving the herbage, both as to quantity and quality, in a high degree.
Your readers will form an idea of the extremely small area capable of cultivation in some parts of the Highlands, when I state, that on Her Majesty's estate of Balmoral, consisting of upwards of 20,000 acres, I was informed that scarcely 500 admitted of any kind of cultivation. Besides the rather extensive ornamental plantations immediately around the castle and the adjoining permanent pasture, I observed only a few acres of oats and turnips, both of which were suffering much from the effects of drought on a thin gravelly soil. The dairy consists of eighteen cows, of the Ayrshire breed, which I did not see, as they were in the woods, for want of grass in the pastures. The dairywoman, as well as her husband, was very intelligent, and quite disposed to afford me any information. The dairy is a small, but very suitable building, rather elegantly fitted up, but all its parts quite in keeping with the object it has to serve. There is no kitchen or fruit garden of any consequence at Balmoral, the soil and climate being naturally unsuited to such purposes.
In these higher districts only a little rye, oats, and barley are grown, and even these crops are in some seasons quite uncertain. Wheat is never attempted. Potatoes and turnips do pretty well. Hay is the most important crop, and is produced of pretty fair quality in the narrow valleys. As an instance of the peculiar character of the present season, I may observe thatI
saw oals and bulley nearly ready to cut in the middle of Augnst, full six weeks before the ordinary time. Inderd there are in most jears portions of gratit erops studing in the more exposed sitnations, after suow las commenced falling. One farmer told me be did not harvest his small quantity of grain in good condition more than one year in four, and that he looked more to the straw than to the grain.

Hasing heari and read much about the planting of the llighlads with fir, larch, Sc., with a view to shelter and profit, I must confess to a feeling of disappointment on the first view. Thetreeson the higher clevations presented a scrubby and unthriffy appearance, but in lower situations, where the soil is better and shelter obtained, the conditions are more favourable, and in most localities artificial planting can lo, no doubl. carried on with success and profit. The planting of wool very much enriches the landscape. aul improves the clinate, rendering the comery more comfortahle and salubrions for both man and beast. On the extensive estates of the Duke of Ahtol many thonsands of acres were planted with the larch fir principally, mo:e than half a century ago. Many of these woots appear to be in a thriving condition, and large quantities of excellent timber hare already been taken from them; white there are others I thought in an almoat non-progressire state. I was old that oi late years a worm had been doing considerable misthief, and that several aeres of trees. in some places. hat actualls died. No antidote las get been discovered.
Scotland presents moṣt remarkable illustrations of the connection between the physical conform tion of a country and the industrial parsuits of its people. The lightands proper, are by soil and climate for eser destined to the pasturage of hardy sheep and cattle, and can oniy support but a verysparse population; while the lower and richer grounds of the South, including poat:ons of the East, abounding in some localities with coal and iro.1, afford the means of ample support to large numbers of people busily engaged in the rarious industrial pursuits of agri culture, manufactures and commerce. In trav elling orer the comntrs one is struck with the ever varying face of mathere, and is forcibly reminded how much the composition atill productions of the soil, and the nature of the purstits of the people in the present day, are the results of phesical forees aperating on the crant of the earth through long ages of then myeterious past.

I hat the pleasure of spending two or three days in the Connty of Fife, principally with Mr. Robert Russell and friends, near Teren. Mr Russell, comr yeas ago. -pent soreral months in the Enited States and Camada, ame published the best book for practical purposescrer written.perhnps, on America. I lad a be:utifuldrivellurough a portion of the eastern section of the county alung thecoas, where therearesomervecileat specimensof farming. 'ibe soil is generally good, in some places very rich, fetching high rents,-say Irom fi $10 \mathrm{~s}, \mathrm{t} \boldsymbol{f} 1$ per acre 3 foct of the grain was cut, and the yieh of wheat estimated at from forty to gintytive bushels an imperial acre Spring grain was, in consequence of the drought, underan arerage. the same of root crops, though $i$ found turnips in Scothand much better than in England, Martirnarly 1 the south. wher. they are generally all but an absolute failure. The present season afforis a very u.eful lesson in regaril th turnip culture: dearly demonstrating that the modemial condition of tere soil is of the utmost importanes. Auch of the arable land of Scotiand is warm and friable, formed by the disintegration of the primitive rocks, and. with the climate, maturally adapted to turnip, entture. But even licre turnips appeared patchs in fields where the terture of the soil, and consequently the cultivation, was not uniform; while upon the hearier soils of many parts of England a sumiciensls fino and deep tilth conld not be obtained, and the consequence was that during the serere drought the
seed nuver germinated The showers that have deeenty fullen have, howerer, camsed germination to combence. but too late to produce a crop. On subls thitt ate lifithle and well worked, a fair erop of Sllelley will probably be produced. Farmers who fail to grow turnips on unsuitable or bally prepared suils, are apt to attribute the result to bad seed, lither than to their own neglect or want of judsment. Mangel-wurzel is lut little cultivated in Scotland, the average heat of the growing season not being generally high enough to develop sumiciently its saccharime quality.

I felt greally disappointed in not finding Mr. Gcorge llope. of Fenton barns, at home, having anticipated mach pleasure in some jersonal intercomse with an distinguished an agricuiturist. went ower the farm, however, with his reeve, Mr. Bertram, a thorough agriculturist of the practical school, who was disposed to give readily any information recputed. Dir. Dertram has three sons set tled in Gutario, and las visited the Province himself, and thimis highly of its condition amd capabilitics. Mt. Hope firms about 1,000 acres, and no one can give cven a cursory glance, without being convincel that the operations of this fine and extensive farm are conducted on the most approved principles of improved hushandry. The soil is among the best in Least Lothian, a district renowned for its great produetiveness. The farm has been in the same itmily for two or three generations, and very important permanent improvements hare heen made, from time to time, by way of draining, straightening fences, de. A steam plough with cultivating apparatus has been introduced with the most satisfactory results, diminishing horse-porrer more than fifty yer cent., and ensuring an carly and rell prepared secdbed. The wheat crop tras rery heary, all cut and ready for stacking, but the recent heary rains had retarded progress,-sprouting oren had actually in some places coumenced. Tho period was critical, and farmers were booking to the immediate future with considerable anxicty. Mr. Mope keeps a firstrate Shorthorn bull, which serres selected cows in most of which the same blood predominates, producing stack of rapid growth and large size, proft ably adapted to the butcher. There are on the farm some execllent pure bred Leicester sheep; but halfbreeds. Chat is, a crop luctween the Leicester, Cheviot, Lincoln, or some other sort, predominate in this and other cistricts of the Lomlands. In traveling through this fine section of country one is struck with the nove nppimance of a tall chimney in almost every farm siealing, the motive power in direshing. cutting staw, de.. being generally steam. Nowing and reapme are principally done by machines, as is new the case in many parts of Eingland. Samuelson's reapers, with seli-rabing and delivery apparatus, appear to be the most generally used. Some of your readers may not bo aware that the original in ventur of the reaping machine is a Scotel clergyman still living: but Mr. Bell's machine, which is propelled by horses from behind, thongh it does excellent work. is ot heavy draught and but. little used. The mucubers of the Highland Society, and others, recently presented Mr. Jell with a testimonial, consixting of one thousand pounds, as a mark of respect for his character and the great worth of his invention - beheve thas gentleman resided in Camada for a while. many yens ago, as tutor in the family of the late Hon. Itlam Fergusson, of Woodhill.
In looking hack on the history of British agricularre in the present century, there can be no doubt that the formatson of the lighland Society was an important starting point in the process of the art ant that the cexthbitions and procecdings of that which may in striet truth be termed the parent societs, have exercised a most beneficial influence on 13ritish agraculares amat that of the numacrons colonies and sethlements in connection with the mother country. Ileft scotland with regret, my tiait being far too limited, and with a deep sense of the intelligence and character of the people.

As one travels from north to south, oren if it bo but thre or fonr handred miles, a marked difierence obthins in the time or performing the more important nemrations of the firm. When I leit Scotland the fimmers were in the millst of harvest-very little hat beensecured; but on reaching the great central plam of Jorkshire, only here and there $n$ late sown tivh hat the grain uncut, and in the sonth and southwest tho cropes had been secured for nearly or quite a forthight, andin capital condition. But littlo threshing has yed been thute. and from all I can learn whero that decisite tist has been applied, tho wheat crop promisesto turn out abundant-considerably, I should think, above an average. I have met with $n$ few insstances of the threshing not fully coming up to previons expectations; these, homerer, will prolnably prove exceplious, not the rald Spring grain on good soils, witha fine, deep tilth, will aford a fair yieh; but all late sorrings with indiferent culture.
cases be; no means rate, will be very deficient, or :an
 daceal at mathon chatrere in lan applatance of the pastmas. which ouly :a fiw daye siluer were :a brownathl buta as at limaphe roatid: they are now assum:arg beamalal greath-grass is beginniag to grow, and farmers havi a proxpect of abundance of Feep tbrough the antum. This will have a desirable effect on the price of sheep and cattle, winich of late have been much demessed in valne. I hear but an indifierent account of the stato of the hop plantations, many of wheh have rapidly gone off during the past few weoks lat as lespect to be in ; a south in the course of a lew days. I will defer Sirther remarks tull I have hal the cpportunity, of peason..l observation.

GBO. BuCKI.AND.
l'ebriborongh. .ingnst 26,1868
Fatu. Snows.-The Fall Show of the East Elgin Agicultural Society will le leeh at St. Thomas, on Tuesiday, the bith of Octuber:

ZTS- 1 joint Show of the West Riding of Iork and Township of Viaghan Agricultural Societios will be held at Burswick, on the $20 t h$ and 21 st of October. As an inducement to the sons of farmers they ofier $\leqslant 12$ for the first, and $\$ s$ for the second-bes essay upon "l'ractical Famming," to be the composi tion of a resident of the Comnty, practicaliy engaged in agriculture and under twenty-one rears of age the essays to be forwarded to the Sacretary on or before the lith of October next, the essay to beconse the property of the society.
shat llay is being exported from Montreal for the Fnglish market.

公包-Upwards of 1.000 sheep infected with small pos, or sheep pox, have been receivel in England from the continent; in consequence of which, an Order in Council has been passed providing for the inspection amd quarantine of all foreign sheep before admitting them into the English market.
Wineat Prematm. Messrs. Moore, Footo \& Co., of Detroit, have uferell the Michigan State Igricultural Society tive sum of $\$ \mathbf{i} 00$, to be given in premiums, for the best fichls of white winter $v$ heat grown in Nichigan. The Suciety luwe aceepted the donation, and anmonece three prizes, of the sums of $\$ 250$, \$100, and $\$ 501$ resin:ctively, for the thren best fieids, consisting of five acres cach, of white winter wheat, sown this fall, and harrested in 1 व60.
Breeding Intishs in Aistintin.- Two Australian horses, "Fish Hooh and • Marchioness," were sold during the week endang 23 ril of May last, to Mr. Munter, who buys for Hue India Market, the price being for the two .1 .300 sterling-upwards of \$7,000. The scrvices of a fivourite horse, "Ace of Ciubs," son of " Stochwell." are ads ertised at trenty sovereigns. A race-horse breeder and turf man, D. I. S. Smith, is just disposing of his farm of ono hundred and thirly-six acres. and thirty head of horses, mares, and colts, b, lottery, at fis sterling per slare in 1,000 shares.
New York Greur Growem" Asouchtion:-Anacar Fant:-The first ammal exhibition of the New York Gmpe Grower's Assucintion will tahe place at Can andaigua on the ith and sth of Ociober. The cxinibition will comprehend the Grope, its products and the implements which pertain to its culture, gathering, preparation for market, and manufacture into trine or brants. Gripe growers and manufac turers of wines, lrimilies and implements, from all parts of the linion amd the Mribish Provinces, are invited to loccome whilituts and competitors. There will bea meeting withe eroning of the lirst day of the Fair, during which the following suhjects will be discussed: 1. Soils, and their preparation for planting, 2. Varictices and their adaptation to soils and Incalitics. 3. Pruning, and the scason in thich it should be lone. 4. Iiest mode of trellising. 5. Over-cropping, and its consequences. G. Renoration of worn-oul vinegards. 7. Marketing. 8. The bencfits of the grape and its prodacts on the liealth of the people.

## ahe Apiaty.

TheKoehlerSecretRevealed-A New Mode of Propagating Ligurians.

Mr. Koehler has recently made his process public in the following article, which appeared in the German Bee Journal:-

Now as to the operation itself. It is founded on my obscrvation, that during many fine forenoons and afternoons the air is still warm enough for queens to fly out when drones usually have not commenced flying, or have ceased to take wing. Until, therefore, the young queens become fertilised we must compel the Italian queens and drones to go forth at such times as the German drones cannot possibly be abroad. The time during which drones are on the wing seldom extends with us to later than 4 or 5 o'clock r.m. If, therefore, we have one or more colonies, with yonng queens which we know to a certainty have not yet been fertilised, we place these hives for three, four, or five days in a perfectly dark and cool cellar, and with them also the stock which contains the Itaiian drones. Whenever a very warm and sunny day occurs, we watch the German stocks until the drones have ceased their flight. As soon as this occurs wo restore the hives containing the Italian queens and drones to their accustomed stands, and set them at liberty after giving to each a cupful of their liquid honey. The queen and drones being ardent, and having been unable to fly for days, the bees excited by the honey and their previous confinement, become so cager after flight, that all play as if mad, and fertilisation follows. We must, bowever, be careful to return to the cellar in the evening every colony the queen of which has not been seen to return with the sign of fertilisation, and repeat the process until it is certain that the desired result has been attained. This is essential, because it is well known that under ordin ary circumstances some queens take flight severa times before they succeed in meeting with a drone How much more, therefore, mustthisbe the case under the foregoing management, whereby the number of available drones is limited to those only which exist in the few Italian stocks?
But now I will make a second communication, which will certainly also be agreeable to you. I do not know whether you give the preference to natura or to artificial swarms. My praciice combines both as by it I oltain natural swarms by an artificial process, and can at the same time with one good Liguarian stock Italianize a dozen colonies with the least possible trouble. The process is as fullows: and put it in the place of another very populous and put it in the place of another very populous
colony. After nine days, by means of the population received from the removed hive, it will certainly swarm again. If it is now shifted to the stand of another strong stock, it will, after two or three days, swarm again. We continue this process as long as we can hear queens piping in the hive of an evening. Under cavourable circumstances we may in this way obtain ten to tivelve swarms, as the first hive supplies the queens and the others the bees. If, therefore, we have one or two Italian stocks, and feed them well early in the spring, say from the 20th of March, especially if they are well supplied with pollen, we may be sure that these hives will swarm first. By transposing them in this way with German stocks we shall obtain them in this way with German stocks we shall
The advantages offered by my system are very great. In the first place wo secure early swarms with young queens, and these queens are generally larger and better than those which bees hatch by compulsion. How quickly also can we Italianize a hive; for it is only changing places with two hives and the work is done. We can also put the swarms in any place we choose, which is less trouble than with artificial swarms, which we cannot always establish where we would wish to have them. We know also the day and the hour in which to expect a swarm, for the second appears in nine days after the first removal, the third three days after this, the fourth on the next day, and so on. If we still hear queens piping after the last removal, the stock will swarm to-morrow, and if we convey it into a dark cool cellar in the evening, we can cause it to swarm at any hour we please by bringing it out into the light and sunshine, and feeding it moderately.
It follows, as a matter of course, that the foregoing method can only be practised with single hives, which can be moved from place to place although they may have fixed combs. Those who have bee-houses can, however, adopt it, because they can transfer their hives from one place to another.
I have still to add one remark:-The process for securing purs fertilisation can only be relied on early in the season, and not towards the end, for it
often happens that certain stocks which hare hatched young queens wilh, as soon as they are fertilised, begi to expel their droncs. a.s I have observed to be the case this year. In such instauces the drones do not ceaseilying so punctually as usual, but often continue on the wing from early in the morning until quite late in the day. We must not, therefore, be too late in breeding Italian queens. and liberal and judi cious feeding is and will be the surest means o expediting it.
In the hope that you will be enabled to make ex periments, the results of which may uot be marred by any unforeseen accident, and desicing that you may be satisfied by experience of the value of my method I am, \&c., Koenler.

Bees.-One of our correspondents in this city sends us the following:-Tine deficiency of flowers in To ronto gardens has driven the bees to the sugar facto ries. At Hessin's Sugar Bakery, on King street, these industrious insects may be seen as thick as flies are ordinarly in such situations. They goin and out of the workshop, and nodoubtappropriate every morsel they can fet at. Immense numbers are killed, but it does not seem to thin the comers. Query.-Do bees when fed on sugar, produce honey? If so, in what proportion?

## The fitusithot.

## Bad News for the Rats

Recent experiments show that squills (Scylla mariima), the enormous bulbous root of which is much used in medicine, is not only a powerful poison for rodents, but also one they are very fond of. The way of preparing it for the desired purpose is as follows One of the bulbs is cut into slices, hashed and brniseal, then done in the can with fat, which is afterwards strained through a cloth and poured into broken plates and sancers, to be placed in the cellars and other places infested with rats, mice, \&c. To prevent dogs and poultry from eating of this poisonous com pound in stables, pigeon-houses, or farmyards, it may be putinto a wooden box, about a foot and a half long, and having ahole at each end. The rat gets in at one end and goes out at the other, after partaking of the noxious food, which soon kills it Squills may also be reduced to powder for the same purpose, by bruising them in a mortar to a pulp which is afterwards incorporated with as much flou as it will hold. This paste is then rolled out, as they do for a pudding, then cut into shreds, which are left to dry on hurdles or on sheets of pasteboard, and are afterwards pounded in a mortar. The pow der thus obtained will keep for years, and may be put into boxes or barrels. If manufactured on large scale, it may become a profitable article of exportation. In Algeria squills cost nothing, the coun try being absolutely overrun with them.--English Paper.

## How to Keep Silk.

Silk articles should not be folded in white paper as the chloride of lime used in bleaching the paper will probably impair the color of the silk. Brown or blue paper is better; the yellowish, smooth, India paper is the best of all. Silk intended for dress should not be kept long in the house before it is made up, as lying in the folds will have a tendency to impair its durability by causing it to cut or split, particularly if the silk has been thickened by gum. Thread lace veils are very easily cut. But dresses of velvet should not be laid by with any weight above them if the nap of a thin velvet is laid down, it is no possible to raise it up again. Hard silk should never be wrinkled, because the thread is easily broken in the crease, and it can never be rectified. The way to take wrinkles out of silk scarfs and handkerchiefs is to moisten the surface evenly with a sponge and some weak glue, and then pin the silk with some toilet pins on a mattress or feather bed, taking pains to draw out the silk as tight as possible. When dry, the wrinkles will have disappeared. The reason of this is obvious to every person. Some silk articles should be moistened with weak glue or gum water, and the wrinkles ironed out by a hot fiat-iron on the wrong side.-Leisure Hour.

Herbs.-Every housekeeper, where there is a garden attached to the premises, should have her bed of herbs of all the different varieties used in a family. They are very hardy, and once cultivated they will not soon be given up

號 "Cheaper than dirt" is the pertinent inscrip tion on a case of soap in an apothecary's window.
Gijo Wuen the Hindoo priest is about to baptise an infant, he utters the following beautifnl sentiments "Litile baby, thou enterest the world weepin $r$, while all around thee smile. Continue so to live that you may depart in smiles, while all around you weep."
Test Yocr Kerosene.-In view of the many lamp explosions resulting almost invariably from the use of bad kerosene, we urge upon the heads of families the importance of testing their oil before use in the lamp. This may be readily done by any man, woman or child, by mears of a thermometer, a little warm water, and a tablespoonful of oil. Fill the cap with warm water, the temperature of which is to be brought to 110 deg . Fah. Pour the oil on the water; apply flame to the floating oil by match or otherwise If the oil is unsafe it will take flre, and its use in the lamp is dangerous, for it is liable to explode. But is the oil is safe and good it will not take fire. All per sons who sell Kerosene that will not stand the fir test at 110 degrees, are liable to prosecution.-Ex.
An Imperfect Angel.-One of the jounger mem bers of the French Legation at Washington is noted for his gallant and exquisite compliments. One evening, at a "german" at Govenor Morgan's, he was introduced to a witty New York lady who had an ugly flat nose. The polite Frenchman discreetly complimented her on her dancing, to which she archly replied, "Ah! I have heard you are flatterer, but you cannot find it in your heart to compliment me on my personal beauty, so you praise my dancing." "Madam," was the reply, with a Parisian bow, "you are an angel from heaven, but you fell on your nose." -Exchange

## gatisctilaucous

## The Trial of the Rooks.

At a recent meeting of the "East Lothian Agricultural Club," Mr. Durie, Barneymains, in speaking to a motion, of which he had given notice at last meeting, as to the desirableness of diminishing the number of crows (rooks), said that he was certain that crows did an immense amount of damage to every farmer in the county. Mr. Scott Skirving, and other friends of the crows, said that they killed vermin. No doubt they did; but if they could put the amount of damage against the amount of good they did, the balance would be found to be on the wrong side for the farmer. He did not want their entire extirpation, but simply that they should be kept down, say to about half the number there were at present. He moved a resolution to the effect that the club was of opinion that the number of crows should be diminished, and that the proprietors should be communicated with, in the hope of their taking means to destroy them in their districts.

The Ceariman stated that many years ago an application was made to the Earl of Wemyss to allow persons to kill crows in Amisfield Park. His Lordship gave orders that every one should be killed, and 30,000 were sapposed to have been destroyed in two days. From that day to this, not a crow had been allowed to build in the Park. He did not think the crows were so plentiful in the county as they once were, but they were still too numerous.
Mr. Mril Lugate, said he really thought that to a large extent the crows were the farmer's friends. They preserved the crops from grubs, and he thought it would be for their advantage if magpies and hawks were allowed to live, as they were many years ago, 1 birds.
Mr. Eider, Bearford, thought crowskept in a limited number would do good, but not in their present number. He knew that crows were fond of worms and grubs, but he also knew that they liked wheat, es pecially when coming through the ground. They might sow to the extent of a bushel of wheat less per acre but for the crows. If those who spoke in favour of the crows had visits from as many of them as he had, they would have a different opinion.
Mr. Ellioty, Abbey Mains, seconded Mr. Darie's motion.
Mr. Jenminson, Kidlaw, said that the crows "har ried" a great number of the partridges' nestsotherwise, he had never seen them do any harm.

Mr. Scitr, Whittingham, said his opinion wa not confined to this district-that the crows were very destructive. They took up, for instance, seed pota toes when they were planted. He had known them
carry off these potatoes in their bills, and drop them when pursued. Whatever might be the patura
two of the rooks, he thonght that it was evident that they had a "erap for all corm." Whaterer magnies lill, it way well haown liat rooks destroped eggs to a large eatent, so that be did not think it would rephire much persmasion to get ganekecpers to pronote their views.
Mr. Mus, said be never in his life saw crows atucking ripo grain; he had suen it many a time, however, destroyed hy wool-pigeons. He nerer in his life saw crows on a stook.
Mr. Berfrage: corroborated Mr. Smith's opinion as to the damage indicted by crows in the potato felds.
The Chamasas oaid a celebrated naturalist had stated that le would be obliged to any gentleman who could tell him that he eser shot a crow and found a grub in it, averring that they did not like the grubs.
Mr. Putos. Standingstane, said that he would mutelt rather have partridges and small birds increased than the continuance of the present number of crows.
Mr. Wrilin:, Bolton, stated that the crors in scel:ung the gribs pulled out the plants. Ino thought that insteal of looking to crors for the destruction of vermin, they should apply the manures which would necomplish that object. Ife had seen thousands of crows sitting on stooks, and found many of them, which could not be taken in for some days whaccount of the wet, reduced to mere chafl.
Mr. Denie's resolution was then manimouslyagreed to.-Mark Lane Erpress.

## - Cemetery Advertising

Ir is well hanow that at the l'ereda-Chaise Cemetery, Paris, there stands in a conspicuous position a splendid monument to l'ierre Cabochard, grocer, with a pathetic inscription, which closes thus:-"Ilis inconsolable widow dedicates this monument to his memory, and continues the same busiuess at the old stand, lo7. Ruc Mouffetaid." Now, a Parisian paper relates that a short time ago a Fentleman, who liad noticed the above inscription, was lend by curiosity to call ::t the address indicated. Ilaving expressed his desire to see the Widow Cabochard, Ite was inmediately ublered into the presence of a faghionabl: dressed and full-bearded man, who astied him what was the object of lis risit. "I came to see tile Hidow Cabochnrd. sir." "Well, sir. here sho is." - I beg pardon, but I rish to see the lady in pierso:. - Sir, I am the Widow Cabochard." - I don exactly understand gou. I allude to the welici of the late l'ierte Cobochard, whose mumment l satw yeslerday at the l'ere-la-Chaise." "I see, I see," was the smathas rejoinder. "Allow me to intorm you that lawre colbuchard is a myth, and thereforenerer lant in with. The tomi you ndmired cost me a good deal of moncy, and, athough no one was buried there, it proves a first-mate adrertisement, ant I have hat no cause to regret the expense. Now, sir. what c.m I sell you in the way of groceries? "- The Grocer

An Orming for Emgrants.-Any stout, healhy Young fellow, who bas no desire to amass money -who has no oljection to continual watchfultues and occasional havd work-who does not fear exposute to all sorts of weather-who can be content with mutton and hard biscuits every day all the year round; and lastly, who has yo particular jove for the socicty of either man or woman, might be very lappy as a shepherd in luenos Ayres, and will late no diffenlty in fiading employment.- Fiondon Sketches oj Jucnos Alyrcs.

Ahgcyentian ab Homnem."-A sceptical young collegian confronted an old Quaker with the statement that he did not believe in the Bible. .Snid the Quaker:
" Docs thec believo in France?"
-. Fis, for, though I have not seen it, I bare seen others that hare: besides, there is plenty of corrovoralive proof that such a eountry does cxist.
"Then thee will not weliere anything thee or others las not seen? ${ }^{\prime \prime}$
" No, to be sute I won"t."
" Did thece ever sece thy own bmins?"
"No."
"Ever sce angbody that did :".
"No."
"Does thee believe thee bas any?"
Qurs.-A leading farmer of the parish having refused to pay, the churchrardens resolved to makoan cxample of him. A summous was therefore talie: out against the farmer, and in due courso a warrant of distress was lodged in tho hauds of tho ohicers, of distress was lodged in tho hauds of the onicers,
from whom he was informed ho might expet $n$ visit inom whom he was informed ho might expect a visit
In a day or two. Our farmer accordingly took the
meration of removing from lis: yard all the shoch wheh it woald be inconsement to have sotd mader Euch di-uls matageons circmenatances. A fow hmpening to wander into the premizes, was, however, suffered to remain, and tho bailifis and polico hauled it of in triumph. The animal was presently sold for about one thind of its valuc, and the churchwarden waited upon the farmer with the trilling surphus that remaineli after dedueting the rate and tho coats. told you," said lie pompatsly to the delinquent, "I should be obliged to make an examplo of you; this is what comes of disobering the law." "Ah," replied the farmer, " they wo cold your old sow, so you'd better lieep the balance."
 the Impire were established as follows:-Newfoundland, in the year 1530; Malaccas, 1579; Gambia and the Afric an gold coast, 1618; Cape of Good Hope, 1620; Nowa Scotia, 1021 ; Barbadoes, 1624 ; Neris. 162s: B.hama Islands, 1630; Antigua, Montsermit and Anguila. 1631; Jengal, 1631; SL. Melena, 1639; Jambes. 16j5; Cape Coast Castle, 1661 ; Dombay, lbiz; Tuttola. 16060; Dominica, al6e8; Belize, 1674; Gibraltar, 1701: New Brunswick. 1713; 1rineo F.dward ledand and Cape Breton, 17.15; Lower Canada, 175!) l"pper Canada, 1760; Grenada and St. Incia, $1762:$ Tobano.st. Vincent and Ceslon, $1763 ;$ Falkland Ishands. luec; New South Wales. 1770; Sierra Leone, 175 : Vancollser's Island, 1792; Demarara, 1796; Trinidad, 175; Goze, 1798; 3talta, 1500; Port 1'hilip. 1592: Yan Ifeman's Land, 1803; IIeligoland, 1807; the Ionian Is?es. 1809; Mauritius, 1810; Nen Zealand. 1s1:: Iscension Island, 1815 ; Natal, 1824 ; Fernando l'o., 1 हi'̈̈; Western Australia, 1829; British Gainea, 1831: South Australia, 183!; Victoria (Australia). 1837: 1long Kong. 1849; Labuan, 181s; Lagos, lisi; B-itish Columbia, 1858 ; Queengland, 1859.

## 男ducriisruments.

Paxton, Tate $d \overline{\text { Co., Port Perry, 0nt., }}$


Ascreacterens cy Tic

agricultural mplemments of aze rimes,
SEAVE: \& SIMNGES: MACEITNEME OSCIEXATING MELDEY SATWG reiterinf: water wheeeris,

MHET, castangs, ctc., cte.
MXADE TO ORDER.
A- Rquiring if all himds promplly allendel to nex UAPRANTY.
Wremarrant tie Jarsh Ilarsester to be well made, of gond ma. tedial, and when propelly used, zot lisblo to get out or repar ; to bo a good graln cutime inachino upon rhich two cxposicnced to tredte acter fit thelte hour, aud latat te will wotk on as mugh fround os any other lieaper

FASTON, TATE E CO.
fort lerry, Jarchas, 1 Sus .
DIEEII WIEEAI.
Tilif: Sulkenime has for sale a quantity or DIEIIf, WUEAT at 1 \&: per Bushod. 1smis Smaicger,

Mamilton, Ont
0.515 .4 c .

Duncan's Improved Hay Elevator. PATENTLD Arsil 13th, 1867.
 innauficture or the aruis furk inity be olatacd fromithe underetguch didates w. MANS, v. 20 it

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 Standard and Dwarf Fruit Trces.
Grapo Vines, nen and ohd sorts, strong open ground plant. Cirrranty. Itanjberricy, Hinckberries, and all the shanlif frut.






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Or J. W. G. WHiTNFI, ESQ.,
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THE FINEST STRAWBERRY fior amatecr celtcre:-Napogieox Mir, of mati

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ate Prec of Plants, (ly man, lootage paid.) $\$ 3.00$ per doz
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J 3s. Rrowsilig,
IMAUHMENO: 1 I. Q
1sth duğust, iscs.
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## Tick instroier pak shemp!

 ditictuortho antmal
It is gut up in botm at inc. Fic. nad $\$ 1$. Whit full diroctions on each parkige. A tice lor will cleaus trenty sheep.


$W^{1}$
E are curning out from fire to ten Threshing Machines per day, and can fll orders PROMPTLY. Our machines are not equalled in carchasing it from us against all loss or damages for infringement of patent claimed for it by Mr. John Abel. Address

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(5 17-tr.)
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## SHORT-HORNED CATTLE

## LEYCESTEER SHEEEP.

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1568, the following valuable stoch
Three Cows in Call; two Heifers, two years old, do. ; three Heifer Calves; Ave Bull calves; one Grade Cow; one Gr.de Heifer, two years odd twelvo pair shearling leicester Ewes; eight pair Ewe Durhams will te furuished at saic.
Trrms of Sale:-Twelve months credit will be given on furThrus of Sale:-Tivecere mon
nishing arproved endorsed notes.
Sale to commence nt eleven, a. m.
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## SHORT-HORNED CATTLE

YMPROVED FARMSTOCK.
$\mathrm{M}^{\text {R. THORNTON, having lived ten years with Mr. Strafford, }}$ ship sHort-HorNs, or any kind of puro bred farm stock, supply infurmation regarding them, or execute commissions in the ofd country.
"The Circular," a record of Short-IIorn transactions in Fugland, and list of animals fir privite sale, published at intervals. Price $\$ 6$ aunually. Post free.
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## IMPORTED BERKSHIRE PIGS,

7 Horoughbred, and from get of 1 mported and Provincial first prize animals.
One Litter for sale at Low Figures
J. F. CASS,
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ncr For particulars address
J. B. HARRIS, Assicneer, The attention of factory men is respectfully called to the following testimony from one of the best factories in Oxford County:

## J. B. HARRIS,

Dear Sir,-Your Agitator needs no recommendation, it will recommend itself, and every cheese manafacturer can become convinced by giving it a fair trial; for my part I would not have it taken out of my two vats for twice the price. No cream can the water with one quarter inch stream of water.
*5-17-1t
Respectfully yours
H. S. LOSEE.

## MONTREAL VETERNARYY SCHOOL MCGGiLL UNL THE BOARD OF AGRICULTURE, PFOVVINOE OF QUEEEO(ESTABLISHED 1866.) <br> classbs. <br> Anatomy of Domestic Animals, Dotany. <br> Institutes of Medicino P(Physiology and Histology, nd Histology, Chemistry (Meoretical and Practical) <br> cterinay in Practical instructions daily. Dissection during the Session ectures commence 12 th November <br> Or to <br> r5-18-4t. <br> GEO. LECLERC, Esq, <br> SicC. Bd. op Agricut D. Mceachran, $\overline{\mathrm{V} . \mathrm{S}}$.

## 

## Torento Markets.

Canada"Farmer" Omice, Sep. 11th, 1868.
Tur Produce market since our last report has been quiet and dull. Barley has been offering, but the receipts have been light since the decline in prices. Only a very few loads of wheat have been offering on the street market.
Fiovr-The market is still dull. Holders have been asking $\$ 6$ for No. 1 super, and buyers have refused to buy at that price. price; choice brands might bring 5 c . more, or $\$ 690$. There are rery few buyers, however, at these prices. Extra is selling in broken lots at $\$ 7$. Superior is nominal, offering at $\$ 725$ without buyers.
Oatmeal-Only a retail demand; selling at from $\$ 650$ to $\$ 675$. Cornmcal-Selling at from $\$ 4$ to $\$ 45 \mathrm{c}$.
Wheat-There are only a few lots in the market. Spring wheat 3 in fair demand, but prices are weak. There are buyers at $\$ 125$ here. Fall wheat is nominal at $\$ 130$. There are no lots on the proof sells at about the same rate as spring. There is asyet, vory iittlo coming in on the street market. Street prices are-spring and Midgo-proof $\$ 127 @ \$ 128$; Fall $\$ 130$ @ $\$ 1$ 33, according to quality.
Oats-The market rematns unchanged. Holders are asking 51c. for car lots. There are no buyers at over 48 c . to $500-0 \mathrm{D}$ the street market buyers were paying 51 c .
Butter--Coming in slowly; holders are firm, belleving that to 22 c . round lots 18 c . to 20 c . ; those packed in small lots sell at 19c.; ; rolls on the market 25 c . wo 27 c .
Egge.-Selling on the market at from 11c. to 13c.; shippers are paying $11 / 12 \mathrm{c}$.
Chese.-Only a retail trade doing; worth from 11c. to $121 / \mathrm{c}$.
Pork:-In few hands; holders are asking $\$ 24$, with a few amall lots selling at $\$ 23.75$.
Bacon.-Selling in small lots at 11c. to $121 / \mathrm{c}$.; market is very bare.
There is not much hay yet coming in. Prices continue to be vell maintained. We quote hay at from \$11 to \$16. Straw is rather low; and ranges from $\$ 6$ to $\$ 8$.
Earley.-The recent decline in the United States markets has owered prices here. The receipts from farmers' toams have in
consequence fallen off very materially. On no day this week has there been over 5,000 bus els receired on the street market, and ing ly half to those of the previous we.k. The decliwo has depressel the market; few lange lots have been offering, and thero has not been much desir. to huy. To liay there were buyers of cargo lots at 95 c . On the strect market prices have ruled steady during the week from 95 c . to 97 c . Thero sevms to be no tikel hood of an immediate advance from these prices, as the tendency
of the $U$. S. market is downward.
Peas.-There lias been nothiig doing in car lots-prices are
nominalat 95 c . ; on the street market frum 05 . nominal at 95c.; on the street market from $95{ }^{\circ}$. to 96 c . was paid.
Montreal Markcets. - Sept. 11,-Flour:-Superior Extra, 8720 to $\$ 750$; Extra, $\$ 880$ to $\$ 700$; Fancy, 8625 to 8050 ; Welland Canal, Superfine, $\$ 500$ to 8595 ; Superine No. 1 Canada wheat
 Fino, 8520 ; Miadings,
Wheat-Canala Fall, $\$ 130$; Canada Spring $\$ 130$; Nestern $\$ 180$. Oats-Per 32lbs. 45c. to 50c. Jarley-Pcr 43Hts. 90c. Dutterairy 20c. to 21 c ; store packe 10c. Eay:-14c. Ashes- ${ }^{2}$
 Mess, $\$ 16$ 75c.; lrime, $\$ 16$ E5c. Lard-1cc. to $101 / 2 \mathrm{C}$. Peus- $\$ 110 \mathrm{C}$ to $\$ 1123 / 2 \mathrm{c}$. Rye Flour- $\$ 450 \mathrm{c}$. Oatmeal- $\$ 650$. (ornmeal10
$\$+10 \$ 410$.
M11waukee Markets.-Sept. 11, noon.-Wm. Young \& Co.'s I wheat dull at $\$ 1673$ to $\$ 1$ ' 68 ; No. 2 do. at $\$ 1531$ to $\$ 154$. Flour nominal. Pork frm at $\$ 29$. Freights unchanged.
Chicago Markets, Sept. 11, noon.-William Young \& Co.'s
 bush. ; shipmenta 118,000 bush. Pork unchanged.

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