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## Tht fidld.

## Hedges at the Toronto Nurseries.

Denne the past nutumn we paid a visit to the Toronto Nurseries for the special purpose of examining the live fences, for which Mr. Leslie's grounds hare become famous. We need scarcely say that we thoroughly enjoyed our visit. Of Mr. Leslie and his rery complete establishment, we may have something to say on a future occasion, but at present we shall confine our remarks to the subject of the bedges, which we then had the privilege of inspecting.
We must first premise, hoverer, that we are indebted to Mr. A. Pontey-Mr. Leslic's zealous and intelligent manager, and President of the Gardeners Improvement Society of this city-for much of our information respecting the labits and growth of the ledge plants in question. The small cuts accompanying this article, have been prepared from sketches made by our artist, at the time of our visit.


Normar Sprocs.-This is a particu:arly fine hedge. as well in a utilitarian as in an ornamental point of view As most of our readers are arvare, it is an erer green, is perfectly hardy, and, we were assured, stands the use of the elipping shears, admirably The plants are generally inported from Europe when they are about trelve mouths old. They are afterwards tmasplanted in the nursery sereral times, so that when they bave attained suficient size to be sold-from three to four fect-therg have an aluundance or fine fibrous roots. As the tree naturally is of a hardy babit, the plants seldom fail to live and do well, when ordinary care is observed in planting them out. In addition to its desimbility as a hedge plant, it bas a beautiful appearance when planted singly on a lawn, or elsewhere. When well grown, its under branches sweep the ground, and the tree rises in perfect symmetry to one bold, straicht shoot at the top.
Hrumocr.-The unique hemlock hedge in Mr Leslie's gronnds was planted nearly twenty years ago. It

still rehins all its beanty, vigour and gracefulness, and forms allogether one of the most charming objects that we ever remember to have beheld. It is orer ten feet in height, and has been so trimmed as to leave a fat surface at the top, measuring eight feet across. The IIemlock, although one_ of the finest of our Canadian evergreens, will probably nerer be much in demand for hedging purposes, owing to the difficulty of raising the goung plants. It rejoices in a moist, shellered spot, and when planted in an expused situation-as it must often naturally be, when usd fur a fence a large proportion of the plants fail to grow. Colike Spruce or White Cedar, it does not furm a mass of roots, so as to be lifted with a ball of earth attached. It is also of slow growth, and las a tendency to develop, itself in any direction rather than upeards. In spite of these drawbacks the graceful weeping of the shouts, and the bright, silvery appeamnce of the under site of the leaf, delight the ege of erersone beholding it; and we were assured that would be purchasers of oruamental hedge plants, are alwags sure to make the Memlock their first choice.


Whitr Ciosar. This iree is so common in thes l'rovince, that it requires no description. It is perfectly hardy, admits of being readily transplanted, costs a merely nominal price, and is a general farourite. Plants of the White Cedar may be eeen in the Nurserv
in every stage, from a few meles in leight up to the perfect liedge, eight or ten feet ligh. To any professional or amateur horticulturist who desires to mabe a goud winter screen abuat his furcing plut, the ohate cedar stands unrivalled. Its capacity for affording shelter is, perhaps, not superior to the Normay Spruce, but to those who must study economy in effecting in provements, it bas the greal attraction of cheapuess.
Becetholis,-As a ledge plant, this undoubtedly demands the first place in the estimation of the Canadian farmer. In localities where timber is becoming gcarce, it is well deserving the attention of the agriculturist. It is perfectly hardy, vigorous in its growth. of a sturdy crabbel habit, free from mildorm, and makes a stout fence in a short time. It is a natire of the Rocky Mountains, and partakes somernat of the character of the Blackithorn,-of Irish notoricty. An astringent flavour, peculiar to this plant, repels the attack of any insect, and also renders it distasteful to cattle. It bears a strong thorn at the extremity of each shoot, which presents an almost inculnerable barrier to ang intruder. The plants require to be

placed in the earth in a single line, at the mate of about three to a foot. For the first two or thrce gears, it is cut dorn to within fire or six inches of each scason's growth, in order that the botom may become well filled ont. Afterfards an annual top-clipping will sumice to make it a fence canable of turning anything. We were shown specimen hedges of this plant by Blf. Leslic, from three to eight jears of age, and they ali bore sufficient evidence of utility to marrant us in stating, that the Buchthorn appears, to our mind, the most desirable bedge plant gromn for general parposes in Canada. The roots of some of the plants that we ear remored, resembled a perfect mass of hore-hnir -a peentiarity which would seem to ensure tho rafid growth of the plant under almost any circumstances. While, howerer, it will grow anywhere and under any treatment, it is like any other tree or shrub-improved by careful cultiation. There can be no dorbt but that the planter who keeps bis hedge-bottom free from grass and weeds, and gires it an occasional mulching, is rell repaid for his exira frouble.

Oring to the great demand there has been for this bedgo plant for tho hast fere years, together with the didieuty of obtaining an alequate supply of seeds; -from which these phante are mised- Jr. Leselin han been quite unable to supply all the orders, which lawe poured in from all parts of the Proviace. Inderel the demand is not limited to Camada. Orders bave leren receired from several of the Wistern States, where the Buckthorn is gradualts but surely tahing the phace ot the Osage Orange The hater in nut funal tu le -ani ciently baris, except in favmured localities
We regret that oring to the late season of the genr at which our obserrations were made, much of the folia ee of the Buckthorn had fallen. The artist was therefore unabte to represent the heuge to such adrantage as it mould lare" appeared. had his sketch been made when the plant was clohed in its summer verdure Some firther notes respecting the Berberry and Pritet bedges of Jfr. Leslie's nurseries, we muat reserre for a future notice.

## Things a Farmer should not $D_{0}$.

A inazir should nerer break up more land than
 - owng puorer, while wedi-tilled land is eonstantly ,up willi A thalte and prudent farmer will not 1 .ut It.s she att ation to the improvement of cerwith hid on hivharm, becanse the land is "easy to work at." and let oiber portions of his premises go uncultivated, and grow nothing but brunh, loges, briers, and stones.
A farmer shonld never hate more catte, hores's or other auimal stock than he can keep in good order. An animal in gooid order at the beginning of wiater is already balf wintered. Nor should he lit his catle endure the chilting storms of winter in an open yard or field, whilst a few dollars expended in the way of making comfortable stables wulld amply repay him incaving of fodder, and athord a greater amount of milk.

A farmer should nerer depend too much on his neighbours for what lu can by careful management produce os his onn land. Me shonld not mike it a common practice to either buy or ber fruit whila la can plant trees and cultivate them on his own groumd - nor annus his neighbuars by jorrowng tools to Work with, while le can make or buy them. "The borrower is servant to the lender."
A farmer should never be so immened in pnlitient matters as to neglect doing his various kinds of work in due season, and to snug up matters and things for winter ; nor should he be so inatentire to politics as to remain iguorant of those great questions of national and stato policy which will always agitate more or less a Iree people.
A farmer should not be contiratly borroming his neighbour's newspaper, while he can easily save money cnough, by curtailing some little catrav:igance, to subscribe amd pay for one or more of his 0 Fn .
A farmer should never refuse a fair price for anything he wishes to sell. I hare linorn men to rer i: a dollar and a half for a bushel of corn, and ane keeping it fire or six months they were glad to get a dollar for it. I hare kuown farmers to refuse to take a fair marketable price for their dairies of butter, and after kecping it three or four months they concluded to sell the Dutter for only two-thirds of the price which they were first offered. "A bird in the hand is rorth tro in the bush.:
A farmer should not allor his rood-pile to be reduced down to the "shorts," merely draming a little by piecemeal, and green at that. Ife must expect to cncounter the sour looks of his wife and family. and perhaps be compelled (in a series of iectures) to leam that the man who provides green wood to burn in the winter, has not mastered the first rules of domestic cconomy. Nor should be employ some "botch" mason to build his chimney " upside down's so that lis family will be nearly smoked out of the honse, and the walls of the room become as yellow as saffron.

A farmer sloould not let his buildings look as old as the bills, and go to decay, while le can casily afford the means to keep them in good repair ; nor should he allow tattered clothes and old lints to be stufed in the windows, in place oiglass. If lu docs. te not bo alarmed if he acquires the reputation of a moan mar, or one who tarries ludg where lugur is sold by the glass.

A farmer should not be contented with dilapidated looking fences on his farm, so as to tempt his cattle to become unruly and destroy his crops, white he has plenty of opportunities and materials to make or Seep them in repair.-Cor. Working Farmer

## Familiar Talks on Agricultural Prinoiples.

## TIIF ASIIES OF PLINTS

If was obserred in our last that if a plant be consumed by fire the greater part of it "burns away," aud only a litle ash is left. The portion that " burns awa" wat whlained to be of a gaseons nature, and zome necuunt way given of the sereral gases which form the combustil)te or organic part of plants; viz, carbon, oxygen, lydrojen, and nitrogen. That portion of the plant which will not burn away, but which forms the residue or ash, is called the inorganic part of the plant ; and wre now propose to say a little more about this kind of material that plants are made of. If we take a stem of wheat, or a turnip, and meigh out 100 graing, then put it into an iron ladle, upon a hot fire, and let it remain until everything has burned array that will burn, we shall find a little ash left. Until rery recentl?, ehemists took scarcely any notice of this ash, because at bore so small a proportion to the rest of the plant, ant seemed so insignificant. But more careful examination led to a different riew of the matter. The inrestigations of Liebig, Larres, Gilbert, and oihers, have shown that this ash contains most essential elements of plant substance, and that good crops cannot be obtained, unless there is an adequate supply of them within reach. What is left in the ashes of plants bas been found to consist of the several mineral snbstances mentioned in the list of inorganic matter given in our last. These constituents of plants are obtained only from the soil, und their presence or absence has much to do with making a piece of ground fruitful or barren. The proportion of ash to the bulk of regetable substance, varies from one to twelve per cent. Some lare supposed that the mineral substances found in plants act as stimulants, but it is far more probable, if not absolutely certain, that they are a part of the true food of plants, and that they supply to regetable fibre, material similar to what forms the bony structure of animals. The following table shows what clemistry has ascertained in regard to the inorganic elements of plants:


The abore table will not perhaps be fully understood at this stage of our "talks" by those wholly unlamiliar riil the subject, but it will serve to gire an itea of the parious component parts of the ashes of plants, and if carefilly studied, will bo found of great use as we procred. It maty be as well to observe to prerent confusion of ideas, that the mention of carbonic acid in the table. refers to anconsumel charcoal,
and lut to the gas knomn by that name, and mhich more properly belongs to the other class of plant muterial.
A few brief explanations of the terms used in tho foregoing table may now be giren.
Potasn is obtained from rood ashes, and the ashes of plants in general, by burning and other processes. It is an alkali, will dissulve in vater, has a caustic taste, will combine with acids to form salts, and with oil to make soap. The quantity of potash they contain, renders wood ashes a valuable manure.
Soda is chiedly oltained from tiso sources, the burning of sea-weed and other marine regetables, and the decomposition of common salt, the chemical name of which is chloride of sodium. It also is an alkali.
Line is one of the most abundant substances in nature. It is composed of a peculiar metal called calcium and oxygen. It forms a constituent part of all regetables, and is the principal ingredient of shells and bones. It $i_{3}$ found in nature in great masses as carbonate of lime. Narble, limestone, and chalk aro examples of it in this form. Gypsum, or Plaster of Paris, is the sulphate of lime.
Masompsa is not so abumdant as lime, and is usually found mised with other earths, and combined with acids. The calcined magnesia which druggists sell, is this earth in its unmixed state. The medicine called Epsom salts is sulphate of magnesia.

Osides are formed by the combination of oxsgen with metallic substances. This gas has a tendency to penetrate ererything, and is especially attracted by iron, copper, lead, and most of the other metals. Tho formation of oxide of iron was explained in our last talk. The oxide of manganese is formed in a similar manner. The oxides of iron are found only in very small quantity in the ashes of plants, and oxide of manganese in still smaller quantits.
Silsca is the substance of which quartz, rock-crystal sand and fint are composed. In its pure state it is a white, gritty porder, without taste or smell. It is oxygen combined with a metallic-like substance called silicon.
Culomas, when pure, is a poisonous and suffocating gas, hearier than common air. In the ashes of plaute it is not foumd in a pure state, but in combinatua wall soda, forming chloride of soda, or common salt.
Sulificric Acid is a compound of sulphur and oxggen. It is found In the ashes of plants combinet with lime and potash.
Prospionic Acid is formed by the union of oxygen and phosphorns. In its pure state, phosphorus is a maxy-looking substance, and has suck a teudency to combine with the oxygen of the air and burn, that it must be kept under water. Phosphoric acid cnters largely into the seeds of plants. Without it a grain of wheat would have no skin. It also forms in combination with liae, the principal bulk of bone.
The abore explanations, in adalition to the remarts made abont carbonic acid, will suffice for the present, by way of simplifying the abose table, and giring an idea as to the nature of those inorganic substances which enter into the composition of plants.
It will help to show the bearing of all this upon farming operations, if it be stated that rarious classes of plants hare been named yotasu plasts, mime ylatis, and silica plasty, from the fact that thes consist largely of these substances. The potash plants include potatoes, turnips, veets, Indian corn. S.c. Clorer, bepas, peas, tobacco, sce, are lime plants. The silica plants inchude wheat, oats, rye, and barles. Upon these differences in the nature of plants, the practice of a rotation of crops is chicdy losed, and the constant growth of one particular crop is oljectionable because it exhausts one sort of plant material. This is Why the too frequent gromth of rheat imporerishes land.

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## Otac zuity.

## London Cow-Houses.

A London cow-houso may be, and often is, a piece of ill conditioned, rather ricketty old stabling, with a sot. of brick-built manger on the floor, the length divided by short and scanly stall dirisions, 7 feet or 7i feet apart, farnished with ropes or straps or chains, with running ringe, so as to tie up tro between each pair. This tloor is roughly causewaycd, and there is a gutter lengthwise down it, parallel with the manger, and a little more than a corr's length from it. The house may be only wide enough for a single row of cosss, or there may be one on either side, with the gulter between them for the drainage of both. I am uow referring to the average stgle of the smatler and inferior cow-houses of the city; and in the pooorer districts of the metropolis, you come upon one from some strect of third-rate houses through an archway, perhaps under a dwelling honse, which leads you into a small back yard, half. filled with this poor shedding. There may be asmall pit for the dung, a store of some sort for the grains; and tice small quantity of hay and roots which are kept on hand are storred away in any convenient coraer-at present there is room enough-for a full cow-house, even of this small class. in London now is a rery rare exception. The roof is rather low, with plenty of rentilation through its loosely-lying tiles, or if higher, there is a "tallet," or floor orerbead where hay and other food is placed, and in which wide spaces are left next the walls and over the heads of the cattle, and then the space of this upper room is measured into the 1000 cubic feet per con, which is the rule that must be observed (for instance, in St. Pancras) if the cowkecper wishes to aroid being opposgd for a renerval of his license. There are wiadow places, which during winter are closed, perhaps with a bit of sacking nailed over them.
This is the ordinary strle of a small cow-housestich as the majority or them are. You find in them six or eight or ten capital shorthorn cows, or perhans licre and there occasionally along with them, a few black and white Dutch catile. It is either a clean and tidy place, where both the cormen and their stock are clean and dry and comfortable, everything in its place, the animals all lying down, laring comfortably fed, and the air with no other perceptible smell than that of the chloride which the careful owners sprinkle once ortwice a day along the gutter -or, it is a filthy hole. In tome cases the dung pit is boarded orer with a loose slab, to be replaced after erery fresh addifion to its contents; and the yard is clean sud orderly and swect. In others, you will find the dirty stran: origiually purchased after use in a neigubonring stable. spread abroad to dry and clean itself orer poles and hurdles for repeated use as litter. In some, fresh grains, good mangolds, and the best hay, with oilcake and peasmeal-the rery best of cow-food-are kept tidity, and served out rer. ularly and neatly, and the whole management is punctual, clean, and systematic. In others you will tind a bin of some distillery wash, and a heap of
stinking turnip tops and cabbage refuse, and the stinking turnip tops and cabbage refuse, and the
whole place dirty and offensive. In generat, the ac-commotation-limited as it is-is quite apart from the dwelling-house. but there are cesceptions even to this. - J. C. इоптo: , before the Sociely of Arts.

## Outlines for Establishing a Cheese and Butter Factory.

A correspondent of the Country Genlleman, rriting from Sandy Spriugs, Afaryland, asks for information in regaril to a Cheese and Butter Factory. IIe says "We live in an improving neighbourhood, about 20 miles north of Washington, D. C., and as hay and grain are notselling at war prices, would like to know something more about making cherse and butter. Could you send some enterprising men with capital sumficnt to starl a clicese and butter. factory of, say 200 cows, as a beginning, with every prospect of ediargement? The only knoniledge of a factory that I have is from the Co. Gesic., from which I do not find the size of building necessary, \&ec. I know of a farm near, with fine springs, building materials location as innot, every requisite for a able persons engage in it, hoping that it would be to the adrantage of all. Any light that can lee thrown on this matter will be gratefully received," \&c.

Mr. X. A. Willard of Uitica, N. Y., replies as Collows: - It is not considered profitablo to cirry on a checso factory whon the mills ieceived is leas than from 300 cows. The help, and general expenso nccount, would wo nearly the samo for a small lactory us for ono receiving the milk of 500 coms. For a sinall factory, stories, wronld perhaps be large enough-the lover story to ve divided olf into manufacturing department and press room, and the upper story, the uarthouse for storing cheere. Ralph \& Co. of Utica, N. Y., havo a very good vat and heater, which serves a good purpose for cheeso-making, and could be fited up at less than half the expenso of steam apparatus. If spriug-roo o bo made in connel with the main struc lure, with rats sunk even with the floor, in size about 9 feet by 12 feet, 2 feet deep, and arranged so as to be filled with water-the trater conshantly flowing in and out. The temperature of the water should not be abore $66^{\circ}$. Long tin pails, 20 inches deep and 8 inches in diameter, have been found of desirable shape to receive the milk, which on heing filled within 4 inches of the top, are immediately planged in the water. Tho milk in tho pails shonld never be higher than the flow of water. Adjoining the main structure-also, and running bact forming an I , should be erected a churn-room, cellar. and ice-house The churn-room may bo 20 feot by 30 feet, and leading out of it a broad alley, on one side of which is the ice-house. This broad alley may bo constructed large enough to serve as a celar or place for storing butter and cream in summer, so arranged in connec tion with the icehouse that it may always be kep cool. A building or buildings like those above de scribed, cost here in the dairy region, when proporly fitted up with apparatus and in running order, about $\$ 3,000$.
The labour required to keep a factory of this kind in running order, could not well be less than thre hands, in addition to a good superintendent. We hardly think any one North would be willing to invest the amount of capital required for a factory without the prospect of a large number of cows from which milk was to be received, together with gooi assurance of ample remuneration. We should advise our correspondent to join with his neighbours, send hero for a carpenter who understands checse factory buildings, and crect a factory on the joint stoct principle. After it is erected, employ a grst-rato superintendent from the dairy region, who is well posted in all that pertains to butter and cheese-mah ing, and then there fill be no doubt of its proving a success. The general plan North in the management of cheese factories is to form a company to bulld and fit up a factory. The company then employ a superintendent to manufacture the checse, paying him a salary or a certain per centage on the product manufactured. Patrons, or those delivering milk at the factory, are charged from 12c, to 2c. per pound for making up milk into cheesc. We suppose a good superintendent could be employed at a salary of about $\$ 800$ for the season, inchuding board. This would be for his own services, and would not include any expense on his part for other labour. A first rate manufacturer or superintendent could donbtless get along in a small factory by taking raw hands, and directing their operations at the factory.

## How to Make Milkers.

No matter what breed you hare, something is ne cessary to reach the highest success in raising good milkers. It's a great thing to hare good blood whether it be Ayrshire, Jerses or Shorthorn grades But apart from this innortant adrantage, the course of treatment in raising a milker is somerhat differ ent from that in raising a beef animal, or an animal for labour. The calf should be well fed and petted While joung. Well fed, to indnce a rapid growth, so as to enable the heifer to come in early; petted, to make ber gentle and fond of the preseace of her kcepers. Foadling helps to create a quict disposition, so important in a dairy cow, and this cducation must begin mben goung. For a milker we would have the heifer como in at two years old, and if she has been recll kept, so as to have attained a good size, she is then old enough to become a coms. She will gire more milk for coming in early. It forms the habit of giving milk, and habit, you know, is a sort of sceond nature. An older bull is better. We use too many young bulls. A three or four year old is far better as a stock getter than a yearling, and many. prefer a five or six year old to any other. After the lieifer. has come in, let her feed be regular. Clover is preferred to all others for the stall feed. A little oatmeal induces a large flow, Indian meal is rather fattening. In bad weather, give ber a clean, rather fattening. In bad weather, giv
airy shall.-Mrassachusetts Plonghman.

## entumalogy.

## The Hessian Fly and Wheat-joint Fly.

In a former number of Tue Canida Fanmen (vol. ii., p. 371), we published some extracts from tho "Practical Entomologist," referring to our notice of a supposed wheat-joint fy (C. F., rol, ii., p. 297), specimens of the pupe of which we had received from a correspondent at Cobourg.
Mr. Walsh, of Rock Island, Illinois, to whom the investigation of the matter had been committed by the editors of the " Practical Entomologist," earnestIy requested that a quantity of specimens might be sent to bim, in order that le might be able to judge whether the insect were a true joint-fly or not. This our correspondent very promptly did, and he has sinco kindly faroured us with Mr. Walsh's repls, froun which it will bo seen that it was no joint-gy after all He states that " the insect is the common Messian fy (Cecilomyia destructor, Say), in what is commonly called the 'flax-seed state.' It is, in reality, a brown cocoon enveloning the larva, and at this time of year you can find the larra inside it, as it docs not change to the pupa state till towards the spring You trere mistaken in supposing that these pupx (so called) occur inside the straw; they lie between the straw and the shank of the leaf that enwraps the straw above erery knot, though there is often a very deep depression in the straw, at the spot where the insect lies." It is rery satisfactory to have the question thus settled by so experienced and competent an entomologist as Mr. Walsh. Our sumposition that the insect was a joint-ls, arose from the pupebcing (in the tro little bits of straw sent us), apparently inside the straw and not betreen the straw and the shank of the leaf, which is always the position of the Iessian fly larra and pupa. Out of uur scanty materials it was impossible to determine, with any precision, to what genus or species the insect should be referred.
While upon this subject, we take the oplorturity of begging those of our correspondents who are de sirous of information in this department of Tur Canaba Fanmer, to send us a good supply, in fact as many specimens as possible and convenient, of any insect they wish identified or deseribed, and also to pack them carefully. It is often nearly impossible to make anything out of one or two specimens only, and those frequently injured in transmission. A similar request is made by Mr. Walsh in the "Practical Entomologist." We cannot do better than quote his words: ". Let me impress once more upon the minds of the farmers, that when they send specimens they should enclose them in a stout paste-board box-a gun-cap bor, for example-and pit in enough cottonwool, or some other such substance, to prevent their rattling themselves to pieces in the mail-bags. For lack of these precautions, I have often received specimens pressed as fat as a pan-cake, or broben into a hundred pieces. A farmer would stare it he was asked to determine the particular rariety of ribeatwhether Mediterranean, or Tea, or Clibl, or whaterer clse it might be-from examining a handful of bran. An orehardist would smile if ho was asked to determine the particular rariety of peach, from inspecting a sack of the driod fruit. And yet they often expect entomologists to decide from inspecting a mass of shapeless fragments, to which of the 30,000 species of insects, that inhabit the United States, these shape less fragaments formerly appertained."

Tue Cur Worv.-Dr. Fitch, Entomologist to the New Fork State Agricultural Suciely, recomaseads ploughing or digging lale in the autumn for killing cut worms. The worms burrow beneath the soil at this season, and lie dormant till spring.

They can bo killed by thawing and freezing them. iradual thawing in the earth does not hurt them; it if they are cxposed so that tho sun thavs them rapid!y, they are destroyed. With this object, late ploughing in the fall is bencecial. Early ploughing in the spring, if wo have freezing, and thaving wano ther aftermards, Tould be useful."

## Cramadian zaturat gistory.

## The Wolf.

## (Canis occidentalis, Mielh.)

Taene are sereral varicties of the Wolf, differing in size and strength, but all alike rarenous, daring, and destructire. Few animals hare gained so wide and so uneuriable a notoricty. It is associated with the original settlement of most countrics as a dangerons enemy to man, nad is, accordingly, woren into the tales, ballads, legends, adrentures, and fables, which enrich the early literature of most nations. Fiction, poetry, and lis. tory alike teem with thrilling incidents of the fierce ness and voricity of these dangerous animals. The stors of ' Litale leed Riding Muod," which liss peopled the minds of half the children in Cliristendom with vague and shadowy terrors, is a familiar cxample of the irapression which these creatures hase male on the popular mind.
The Wulf wis furmerly cumenut user the greater part of Europe, lut, in the uld woid, it is now principally cunfued to the unfrequented districis of Streden, Germatay, anel Russia, and the mountainous regions of asia. From tle fact that the Anglo-Saxon namo for January is "Wolf-month," it mas be inferrel that this animal was formerly rery common in Britain and more than ordinarily bold and destructure an that month. The structure of its bones andits general anatomy are nearly identical with those $r{ }^{\circ}$ the dog ; while the period of its gestation is the same. On this and other grounds, it has been deemed probable by naturalists that some of the partly domesticated races of the dog lave been derived from the Wholf. It is not so intractable as is generally supposed, and, whea captored young, it has been so tamed as to cahibit unmistabable signs of afection for man. A species of the animal is represented mith the dor on Egyptian monuments, and is fgured on tombs forty centuries ago.
The colour of the Wolf varies trith the climate in which it is found. In Sreden and Siberia it becomes almost rhite; but in most countrics the prevailing bue is grey, mised with a slight fawn tint-the lighter coloured fur being usually interspersed with blach hairs. In this country, there are tro well defined sections of wolres. In the smaller varicties, to which the Prairic wolf belongs, theskull is slender, and the muzzle is elongated and fox-like. In the other kinds, which include the large wolf, the skull is higher, with a broader muzzle, and relatirely smaller orbits. The North American, or Common Grey Wolf, figured in our illustration, is usually from 37 to 4$\}$ feet in length, with a tail of from 17 to 20 inches. It varies from the generic culour, we hare just descibed, to nearls Thite, and is hence called Canis variauilis by some naturalists. It was formerly abundant over the whole of this contivent, and the depredations of its hungry and destrucure bands, have formed the subject of many a thrilling tale of frontier life. The first settlers of Boston were compelled to fence round their
cattle at might, to protect them from the rolves; and in the far west, they may still he seen folloring the trail of the buffalo, and joining together in pactis, to hnut lown the deer. The appetite of the Wolf is almost insatiable, and when furious with hunger, is will thot hesitate to attack animals considerably larger and more powerful than itself. It lins even been known to enter the lists against such a formidable opponent ar the leear. Au instance of this nulacity is recorded by Mr. Llagd:-"During a bear hunt. when the hunting party mas led by a dog that was following the footsteps of $a$ bear, a small berd of wolves, fer in number, suddenly made their appear-

fectly secure from its attack, it a stick with a piece of fluttering cloth attacied, is planted beside tho animal. When wolves are trapped orsurrounded, they become most dastardly and spiritless anituals. If a large yard forms their prison-honse, they will crouch shyly into the corners; and if a human being enters the same enclosure they do not make cren a show of resistance. Audubon relates a singular instance of their cowardice, of which he was ant eye-ritness:A farmer had suffered greally from the wolres, and determined to take his revenge by means of pitfalls Ue had dug sercral, cight feet in depthand wider at the bottom than at the top, within easy reach of his residence. Into ono of these traps five wolves had fallen. The farmer at once got into the pit, pulled ont the hind legs of the wolves, as they lay trembling at the bottom nad with his knife severed the chicf tendun of the lind limbs so as to prevent their escape. The furmer thus repayed himself for the damage ho had suffered, bs the skins of the captured wolves. The Pramer Wolf (Canis latrans, Say.) is intermediate in size between tho fox and the animal wo have been describing. It combines the sharp muzzle or the former with the shape and tail of the latter; and is the American representative of the jackal of the old world It lives and breeds in burrows, hunts in packs, and is remarkably fleet It is found principally on the vast plaias of the Missouri and the Sishatchewan. Flocts of theso anima's generally hang
arice, ponnced apon the dog, and devoured it. They then took up the trail, and wisen they came up with the bear entered into battle with him. The gight terminated in favour of the bear ; but not witaout nuch excrion and great danger to both parties, as was prored loy the quantity of tear and wolf fur that lay scattered about the scene of combat. So serercly had the bear been treated that his fur was found to be ruite useless, when he was killed by the bunters after the conflict."
The wolf has a most unscrupulous palate, and will eat ther tiesh of elmost any living animal. It is said to be particularly partial to the flesh of its own species, and does not hesitate to indulge its cannibal propensities on the carcase of a sick or wounded companioa.
"There is something remarkable," says the Rer. J. G. Wood, in his admirable work on Natural History, "about the bite of a Wolf. Instead of making its teeth meet in the flesh of its antagonist, and then maintaining its hold, as is done by most of the carnirora the Wolf snaps sharply, Dercely, and repeatedly at its opponent or its quarry, delivering these attacks with such furious encrgy that when it misses its mark, its jaws clasl together with a sound that has been likened to the sudden closing of a steel-trap. These sharply suapping bites, so rapidly delivered, are of terrible effeacy in destroying an enemy, or bringing dowa the prey.:

Like most blood-thirsty assassins-whether bipeds or quadrupeds-tho Wolf is a suspicious and arrant coward Any object to which its senses are unaccustomed, creates in this wretched, craven the most abject torror The carcaso of a slain buffalo is per.
on the oatskirts of a herd of biswes, and find their subsistence by attacking the weak and rounded members of the herd. Although the prairic wolf is of somparatively small size, it becomes a powerful assailant when backed by numbers. They seldom fail to bring to the carth any unfortunate animal that they attack; and in a remarkably short space of time complete their savage banquet.

2e" A flock of wild geese kept pace with a train of cars on the IIudson River Railroad, going about thirty miles an hour, the other day, for ten miles, when they changed their course.

Meetng Tarer Bears.-We learn from the Courier of St. Hyacinthe, that a Mr. Drolet, of Roxton Falls, while hunting, was confronted by a sbe-bear with two cubs. IIC first ared upon the mother. She ras not killed, but suficiently disabled to allow his despatching, trithout danger, tho cubs. After this the bad to fire six times before he could finish the mother. He has sold the skins of the three animals for $\$ 20$, and retailed their flesh at sirpence peryound.
Materanal Instlact of Bats.-In June 1823, the son of 3fr. Gillespie, tho keeper of tho City Square, caught a young red bat (L. noveboracensis), which he took bomo with him. Three hours afterrards, as he Was conreying it to the muscum in his hand, while passing near the place where it was caught, the mother mode her appearanco and fullowed tho bor for two squares, tying around lim, and finally alighted on his breast, such was her nnxiety to sase her offspring. Both were brought to the muscumthe young one firmly adhered to its mother's teat. This faithful creaturo lived two days in the museam, and then died of injuries received from her captor. The Joung one, being but half.grown was still too yonng to take care of itself, ani died shortly aner.Godman's Nal. Llist.

## Starl Diduatumtut.

## Cautions for those having Sheep.

Wi: copy the following excellent suggestions about - heep, from a ci.cular issued by I.C. D. McKay, Fatu. the general agent of the American Emigration Company. The Company have already orer 10,000 sheep scattered among the farmers who purchased lanil of weun, in flocks ranging in size from fifig to two hunired head:

1. Keep sheep dry under foot with litter. This is even more necessary than roofing them. Never let them stand or lie in mud or snow.
2. Take up lamb bucks early in summer, and keep them up until Dec. 1st, followhig, when they may bo lurued out.
3. Drop or take out tho lorest bars as the sheep enter or lcare a yard, thus saving broken limbs.
4. Count, every das.
5. Begin graining with the greatest care, and use the smallest quantity at first.
o If a cwe loseg her lamb, milk daily for a few dass, and mix a little alum with lier milk.
6. Let no hogs eat with the sheep-by no means in the spring.
7. Give the lambs a little " mill-fed" in time of weaning.
8. Never frighten sheep if possible to aroid it.
9. Sow ryo for weak ones in coll weather, if you can.
10. Separate all weak, or thin, or sick, from those strong. in the fall, and gire thens special care.
11. If any sheep is hurt, catch it at once wash the wound, and if it is dy time, apply spirits of turpentino daily, and almags wash with sowething bealing If a limb is broken, bind it with splinters, tightly, loosening as the limb sirchls.
12. Keep a number of good bells on the sheep.
13. Don't let sheep spoil wool with chaff or burrs.
14. Cut tag-locks in carly spring.
15. For sconrs, give pulverized alum in wheat bran - prevent by taking great care in changiog dry for green food.
16. If one is lame, examine the foot, clean out hetween the hoors, pare the hoof if unsound, and apply tubacco, with blue vitriol boiled in a little water.
17. Shear at once any sheep commencing to shed its wenl, unless tho weather is too severo, and sare carefally the pelt of any sheep that dies.
18. Have somo good work by to refer to at least; this will be monay in your pocket.

## The Cost of Cattle Feed.

H. E. Mosely, Springficld, Mass, gives the followestimate of the weekly expense of feeding four cows -three milch and one dry-during the winter of 1865-25.


Tho arerage cost of each cow per week lacks a fraction of $\$ 280$, and of each cow per day, 112 cents. The three cors gave 22 quarts of milk a day, or an arerage of $7 \frac{1}{2}$ each, or 154 quarts a week; worth at cight cents a quarl, $\$ 1232$. The margin of profit is small, without reckoning the care and labour and interest on investment, but it is believed bigher than herds will average.
His plan of feeding was to give corn-stalks twice in the morning before milking, after which 12 quarts turnips and carrots, cut and mired. After watering, long hay is given, and at night cut feed, consisting of corn fodder, oat straw and hay, cut and wet, with warm water, and sprinkled with rye and corn meal.
Major Georgo Taylor, a noted feeder of fino bullocks, says regularity in feeding is indispensable. His regular ration to.esch animal is eight quarls a das of meal made of.corn, rye and oats mired., His
usual practice is io feed coarso hay first in the morning, then dry meal, add then two or tbree fodllerings of finer bay and rowen. After the cattle are well filled, and about 11 a.m., they are turacd out to water, and while out, tho stalls oro regulated, cleaned and strawed. They aro immediately stabled again, as they gain faster shut up, and aro expected to lic down and rest till feeding time again. About 3 p.m. dry meal is given, then cine or two fodderings of hay, and lastly stalks, which answers for tho night. Every leaf and straw unconsumed is removed from the mangers between the feedinga. Oniy such quantitles und qualities are fed as aro likely to bo caten onfire and clean. The hay is mostly pulled with a hay hook, in order to draw from different lajers of the mow, and thus secure greater variety.-Spring fied hepublican.


Killing and Scalding Hogs.
J. Coufort, writing from Cumberland Co., Pa., to the American Agricullurist, gives his process of killing and scalding hogs, which has much to recommend it, as follows:-
"I have frequently thought of writing a word on the casiest, quickest and most humano manner of slaughtering hoge. I take any kind of gun that will go ' loose,' load with, say one-third charge of powder. and a plug of hard rood, about an inch long and the thickness of the ramrod. This I shoot directly into the centro of the forehead of the hog, and se drops at once. The head is not injured. as to meat ; there is no danger of the hog biting you. You have no hard tugging and lifting to catch and throw them, both of which are hard and dangerous work. and the hogs will bleed out better, as the nerrous system receires so sudden a shock, that they are not able to draw the blood into tho lungs, in case the wind-pino should be cat in sticking. It is easy to picture laying hogs on their backs. but try it one year and try shooting next, and my word for it, your pen will erer afterward be free from squealing on butchering day.
"Now, as to our method of scalding hogs. We set two posts about twelve feet long, including two feet in the ground, and about trelre feet apart, and connect them by a beam on top. Under this beam, and near one post, I sink an ordinary half-bogshead in the ground, and place a pullog on the beam directly over it, and another pulley on the side and near the bottom of the adjacent post. A rope is passed through these and attached to the hog's hind leg, and then he may be casily hauled up and dropped into the tab, then taken out to air and clean; and lastly be may be hoisted up and hooked on to the beam by chains to hang. Such beams may be arranged to hang as many hogs as you may wish to slay. 1 common barrel kettle kept boiling will seep the water in the scalding tub hot enongh, by adding hot and taking out cold, to continue scalding an indefinito time; all with little cost, little fael, littlo lifting, and the killing with little saffering to tho animal. All things considered, this is the beat mode I ever eaw or ased for killing and scalding hogs."

## The Reproductive Powors of Domestioated Animals.

(Concluded from p. 22.)

Maxy animals are conilemped as barren, which aro only temporarily so, in consequenco of injudicious feeding and management, or relatively so, in consequence of the malo being united, from too closo proximity of blood, or from both animals being deficient in constitutional vigour. Examples of each of these cases are frequent. Heifers, oring to confinement and high condition. have been readered incapable of brecding ; but after being put on high and inferior pastures, or worked like oxen on the farm, they have been made, by thus lowering their condition, to brect with facilits. It is stated that the late Jonas Thebb, purchased of the late Lord Spencer, an excecdingly landsome cow, for a trifing sum, as she had been condemned as barren. After driving her from Wiscton to Babraham, a distance of some 120 miles, and putting her on a different diet for a short time, she camo into scason and bred. 'Dodona,' the cov in question, roduced, when a heifer, twin calres, and subsequently a single calf; when, ceasing breeding, sho was sold. But a change of climate and treatment again brought her into breeding condition, ard at the time of her death, no less than 160 valuable animals could be traced to this corr, which had been twice sold as barren 'Celia,' another well known cors, owned by Mr. Webb, after being condemned as barren, became exccedingly finifful by similar treatment, and had a progeny of orer 180 traced to her at the time of her death. Exercise and reduced diet tend, of course, to diminish those falty accumalations which impede geamation, and a mere change of climate has often been foand to exercise a decidedly beneficial influence.
Animals are frequently rendered unproductive by too close relationship, or a similarity of temperament; a difficulty that may in general be overcome by judicious selection. I male animal, when pampered and confined, will be sure to become fat and sluggish, a condition often accompanied by the want of constitutional vigour, rendering him inemcient as a stock getter. Such bulls bave sometimes been rendered serviceable by subjecting them to rigorous exercise, or labour, and to lessstimulating diet. There can bo no doubt that breeders have these matrers more within their control, than is often imagined. It is the excessive artificial treatment of animals that, in most caces, occasions both disease and barrenness. In a climate, however, like that of Canada, we should be carcful not to run into the opposite extreme, as is sometimes done, for, by too much exposure and innutritious food, the best bred animals will become weak and liable to disease, and produce a sickly progeny,
Our author, who in conjunction with two eminent physiologists, rery carefully examined the ovaries of several heifers. condemned and killed as barren, says :-"I have every reason to believe that by far the larger proportion rere maturally quite competent for breeding, and that, in the majority of cases, nonimpregantion arose from the seminal fluid never reaching the ovum, which was ready for fertilisation, and from that fluid not being of a healthy character. In some cases, in which the orx rere, to all appearance, perfectly healths, the tubes-mbereby the seminal fluid should have been conveged-were so overchargol with fatty matter, that impreguation mas rendered impossible. In other cases the ovaries mero in an unitalthy condition, cither one, or both, having to a great extent wasted arvay. Somotimes one of the ovaries had been suffering from atrophy, and the other in such an irritable and sed itive condition that it might almost bo described as i $r_{\mu m c l}$; and under such circumstances the formation of a healthy ovam could scarcely be expected. Ia other instances, the ovaries had become. considerably. onlarged, in con-
sequence of a fatty degeneration of their organs laving taken place. I hare not sugicient data before causes, except in some of thoso casqs in which a fatty deaseneration of the ovaries had taken place.
The researches of our author and his coadjutors hare led to the conclusion that food rich in saccharine matter, when tahen in large quantuty by anmals. 1 orta injuriously on the is reproductive powers. Among ofler instances may ber mentiuned that of a well known brecder who, witha view to the improvement of the condition of his herd, added molasees to the 1 lry food be gave. This suon improved the uppear-1 nocr of his animals, rendering their shins supple, and increasing éleir weight ; but it was accompanied by an influence he had nerer expected; for his stock, which had always realized lugh prices as breeding stock, now, with vers fers esceptions, proved to bel valueless for that purpose, malo and femalo being alike sterife such of the herel as had nut been! ankionsly supplind with montacis cuntinued to main-1 tain their character for breeding, white it was thought that others, even after the molasses had been withbeld. that their procreative nowery continned to be serinusly inpairen It has lang been hnown that, accharine snhataneos arw verellent food furfatte ning purpnese. and it it probiable that the injurious tendency of sugar aniong lirecding stock arises from the fitty degeneration of the ovaries whicheit produces. It is said that similar results occur among human beings ; and that the negroes in the sugar hmanations lose all power of reproluction during the sugar harrest. and are permanently influenced. thongh in a lesser degrer, hy the juice of the cane. which they are so fonll of chewing. It is also affrmcl that the reproductive power of the negro increases as the area and growth of sugar diminish.
The moderate ase of galt is well known to he henefieial to slock on this continent, especially in parts remote from the ocean, and lig sume it as hela to have a powerfil efiect on the breeding power of auimats. Unussingault, the eminent French agricultural chemiat found that bulls, which in the ir fued receise a large aldition of common salt, show a greater melmation to cover; and Roulin states that tue females of our domestic animals are rendured less productse by want of salt Large quantitics, huwerer, of thissubwhane must not be gis ct. e $=$ pelatily to animals giving milk, as in that case it suuld impar the power of corretinn. The formation of milk is intumately conuncted wilh the reprodudicicpuliens. Its secrenon is denendent upon the actisity of the mammory clands; and these are citber cuder the direct natheance of the brecding organs. ut cleu they sympatase very closely with them. Thuse animats which breed with the least difficulty gield generally the best supplics of milk, and produce the mant bealthy and vigorous ollspring. Howerer much wr have succeeded in improring the symmetry, aptitude to fatten, and carly maturity of animals, it muct be confessed that we lave done so. in rery many instanere, at the of $x$ pense of constitution. breeding capability, and nilk ing properties. To check thee injurion tendencies. which among pedigree stock sectit to be increasing.
 feeding and management
"The general sjatem fif idit mu-t lie luched ajun as taking its share in influcucing the reprotuctise functions. When the fall of rain Las been stuall, and the herbage more than usually parched, we nind unusual dificulty in gedting urdinary farm stock to breed. A dry dietary is very unfar uurable for breceding animals, and wry much setards successful impregnation. . . Lilthe is as yet defnntely known as to the comparative intlue tue of didereat honds of food upon breeding animals, but the infurmation we possess leads us to desire further evidence. We know that the heallhy st mea of sich animals, with few (if any) exceptions, cuntuins a large proportion of albuminous matter, in the form of vitellin and albumirate of soda; and it fulluws as a natural consrguence, that unless the-e bodes are present in the food, although they inay be supplised for a time by exhausting the animal system. still his carcer canuot lang be maintained without prejudice to the animal anid disapnointment tu the breeder. The presence of phosphorous is alno swintal, and thas been observed that fool rich in phosphorous, such as the Ieguminous eceds,-peas. beans, vetcheq, Sic., are repecially valuable in promoting the fertility of breeding animals. It may also bestated th althongh a maderate supply of f.uty matter is desirable in the food, still it should ber linated. as as to prevent any unbealthy accumalations of lat in or ahout the hreeding organs, and it shuthld altrays be accompanird hy food rich in albumanus maner There are many curions and importunt points of enquiry orolved in matters forming tims interenting papor fof which the abors is only an ontine), that it is boped will receive due attenuon both from practical and ecientific men.

## Z2ultry filutil.

## Roup in Fowls.

Turae is a discabe which iq alike the bane of the poultry-kecper and the poultsy-cdior, in fact se hardly know which of the two suffers the most screreIy from its ravages, but are inclined to think the latte. is almost the worst off, inasuuch as roup is not always present in any particular noultry yard, hut the editor of the poultry denartment is perpetually opening letters asking for the remedy of frothy eyes, swollen faces, and all the other symptoms of this disase We have therefore thought it desirable to deretr a cortain amonnt of space to the consideration
uf the roup. its causes, its consequences, and, we wish we conld add, its cure. Roun is essentially a disrase affecting the lining membrano of the nostrils and hr passages communicating with them. It commences with the symploms of an ordinary cold. The furl sneezes, and at cach shako of the head a small arnp of fluid is jerked from the nostril.
If the disorder goes on unchecked, the discharge from the nose assumes a thicker character, and the bird, not possecsing the luxury of a pocket handkerrhiff wiper it away on its feathers at the base of rach wing. As the discharge thickens, it is apt to become purnient and offensive, and from its tenacious character it is unable to escape throngh the nostrits; consequently it distenis the nasal carity. canses the idere of the face to swell, and forces its way through the tear duct to the front angle of the ege. whirhaton becomes srivllen and affected by the acrite charartor of the discharge, which in this stage becomps evered-
ingly offensive. From the peculiar conformation of ingly oftensive from the peculiar conformation of
the nustrit of the fowl there is but little opportumity fot the ...icl. ning discharge to escape, and the intern.al suching sometimes soes on to so great an crient. that the animal become's blind. In the purnleut or offensice stages of the disease me have but little doubt that it is infections, but do not regaril it as lecing so in the earlher stages.
Aifinst roup is only a severe cold. and may be intdunch by ny cuuses wheh gire rise to that com. plaint. Expusure in an open show pen; travelling in an unsheltered basket ; roosting in a cold. damp house ; especially if these causes are combined with deteinacy of good wholesome food. In the eariser atagea warm housing conjoined with good feedng. repecially if the fool be rendered a litte stimulating. will soon effict a cure. The condition of the forvls may ho jmprored by a lithe green :vitral put nto their drinking water
In the alvaned and purntent case, runp is the mnst tronhlecome of ponitry diseases in the way of 'reaturnt The bird may be strengthened by good licing and a littlo iron administered as a tume, but anclicine encur to have little iufluence on the disof Wo have tried injecting a solation of sulphate of conper and other lotions into the nostrils, but
withont inuch effect. Some persons have given the fowl capsuley of the balsam of copaiba, as thes medirine has a peculiar specific effect on mucous membranes, such as thuse that line the carities of the nostrils, and good effect has followed from its employment, a capsule being given trice or thrice a day. lnless a fowl be tery valuable, we should strongly advise its being silled, if very roupy, as it men never pay for the trouble attending is trea ment, to say nothing of the risk of its infecting the other fowls.
In, roup, as in all other diseases. prerention is letter than cure, and it so happens that when fowls are warmly sheltered, fairly fed, sept in clean houses, and not overcrowded, roup seldom or never makes its appearance, except in one or two hreeds that certainly seem more subject to it than others. The Black Polish and Silver-pencilled Hamburghs seem more liable
The Fidd.

Whar Allen tae: Cufceezs. - A nibscriber of the Aqricullurist, says that he lost sereral valuable cbickens in a mysterious madier. Onc after another dronprd and died. Their rumps appeared much infamed and a post mortem examination disclosed the causf The chickens had swaliowed kernels of indian corn. which had swollen so large that they cold not pass off. The obstruction of this passage caused inflammation and death. Young chickens
cannot mash kernels of grain in their gizzards. Their cannot mash wernels of grain in their gizzards. Their
feed should be fine.-Ib.

Natcral Hutcino.-Tho hens of all kind of gallinaceons fowls sil for 21 days; ducke of the usunl kind, such as Aylcsbury, Rouen, and others 28 days, Muscovy duoks, 30 to 35 days ; geese, 30 to 35 days; Guinea fowls, 28 to 30 uays; turkess, 28 inys: pea hens, 28 to 30 days. With $n$ vincz of obtaining innen eges in a given time from a fowl. many writers sug gest to present the ten from silting by cooping lier up in a dark place on a low dict. Nothing can ba more crucl than to force nature without giring that necessary rest which overwork requires. Already the domesticated forls lay many more eggs than wild ones between their hatchings. and. by a judicious housing ant feeding, can be made to lay still more; but then it is absolutely necessary to nllow her to recruit hor strength by a rest of 21 dasga on her nest, and a liberal poultaceons diet, as the laying of egge, and more particulasly of large ones, is attended with considerable pain, us is cvidenced lig the difference of sound hens utter belore and after their laying, also from their unensmess whilst on their nest. Besides, domesticated fowls aro naturally her sociable disposition, and 10 separate a hen fom her companions, and to keen her on a low det whes rest and nourighing food to recruit her strength after she has become exhausted from the strength ater she has become cexhasted laying and the drain on her constitution, hy the repid formation of eggs, is the height of cruelty, and would surely not be practiced were breeders "" are of the injury they do the health of their hens. Geyelin's Poultry Breeding.

## శut Aytary.

## Management of the Apiary for February.

my . н. тиomas.
Tue management this month should we about the same as for January. Stocks that require feeding shonld he constantly attended to, for if neglected a lay or two after the usual time of feeding, they may perish, as it frequently happens that all the honey stored by stocks that require feeding, is consumed by this time. and trey depend wholls upon what is fill them. They should, therefore, not be neglected. Stocks that are not housed, should bo visited occasiomally, in order to keep the passage for rentilation frec from snow or ice.
From communications receired from all parts of lur Province, both cast and west, we learn that many more are honsin? their bees this winter than formerly. This is a move in the right direction. Thoas who intend to make bee-keeping profitable must winter their wees in comfortable quarters. The wister has been favourable so far, and the prospect is tur for early swarms. Those who have hires to make wonld do well to attend to it at once, especially if moveable comb hives are to be used. They should be well and correctly made.
za- The oniy wax work that's of any acconnt is got up by the bees.
Ventilation in Bee Hites.-Bees in winter do not apparently suffer from cold eren when many degrees below the freczing point. Their great enemy is damp. I hare known hires from which the bottom board had fallen and which were fully exposed to the air, winter well, while others carefully tended lost thousands of bres, and yet both had suficient stores. Inives anade of thin boards are bad quarters for bees, unless well ventilated, and for the simple reason that when such are exposed to the weather, they part rapidly with their warmth in cold weather, and anless carried of by currents of air, the moisture from the bees condenses on the inside and then congeals, and this process will go on until the comb next the sides is involved, and the bees arn consequently budded together in an ice-houso. When combs are thus frozen or kept steadily exposed to an atmosphere of moisture for some time, thoy will mould whenever the weather becomes warm. It often happens that the principal portion of the honey is laid ap in the outer combs, and if abeec are frozen, the bees cannot get their food, aud may. thus starze with food abundant, but locked up $\overline{\mathrm{b}}$ front.-Ohio Furmor.

## Britigh blataing

Tar The foreiga crops having been unusually good l'ring the past season, wheat is now sellieg in Frunce fur less than ono dollar per bushel, and it commands unly about one dollar and nine cents in Great Britain.
Cholema is the Llair.- A barber in England, luring the prevalence of the cholera, expressed his ppinion to a customer, on whom be was operating; that after all the cholera was in the hair. "Then, was the answer, "Fou ought to be very carcful mhot brushes you use." "Oh, sir," said the barber, laughing, "I don't mean the 'air of the "ed, but the hair of the hatmosplecre."
Animala Scbject to tue Cittle Plagez.-We learn from an English exchange that " the Rinderpest bas now been finally expelled from tho Jardin 4 人cclinatation in the Bois de Boulogne. Thirty five atimals las o died of the discase. It appears from the observations and experiments, made by medical men thile the disease ras in progress, that the following animals are liable to it : the zebra, the bumalo, the gazelle, the goat, the stag, and the wild boar."
The Tarcune Diseses-Berlin correspondents of the English papers record the prevalence of a panic in the lrussian capital, second only to that caused by the appearance of the cholera. The trichine disease, n new and terrible maludy, is raraging Prussia, and of those attacked by it, at least 25 per cent. die a hor-
riblo death. Surgeons trace the origin of the malady rible death. Surgeons trace the origin of the malady
to a species of worm that attacks pigs, and as the Germans are especially a port-cating people, and prefer their food only partially cooked, the nevf scourgo has utterly disarranged their labits, and caused a feeling of intense alarm to pervade all classes.

A Hetcning Monstrasity.-A Dublin correspondence of The Fiell relates the following singular circumstance: "My turkess ran in the same field as a Dorking cock and hens. A sitting of turkey eggs hatched, amongst others, a bird with four legs-a perfect turhey chick with the two practicable and unloubted turkey legs, but with two binder perfectly defined legs, thighs, and five-clawed, and corresponding in every respect with those of tho Darbing chickens. The Dorking legs wero not nearly as long as the others, and consequently hung down useless. Tho chick lived fur two diass, and fed with the others."
Exportation oe Imasi Morses.-In the recent return of the Registrar General, it is shomn that the number of horses in lreland has considerably decreased during late jears. The report says:-" In 1862, there weru horses to the value of $£ 31,975 \mathrm{ex}$ ported from Great Britain and Ireland to Belginm; in 1863 the value exported to the same country alone was $£ 60,915$, showing an increaso of $£ 28,92^{4}$ in one year's exportation, as compared with tho previous year. A fureign demand still continues, for at the
last great Munster (Limerick) fair, a buyer on the part of the French Government was present, taking animals fit for troop horses at from $£ \leq 410 £ 30$ a piece."
Polimiov of Rners in Ireland.- - Tie learn from The Farmer (Scottish) that "in censequence of the introduction of gas for lighting the College at Maynooth, and the refuse being allowed to flow into the river Rye, which runs close to the town of Maynooth, and through the demense of the Duke of Leinster at Carton, emptying itself into the river Lifes near Lucan, the line breed of trout fermerly existing, and which was carefully preserved by his Grace, is nearly extinct; and it is greatly to be feared that, unless measures are adopted to $p$ at a stop to the nuisance, the numerous fish in the lake at Carton will ultimately share the same fate."
A Stac ar Sea. - We learn from a British exchange that " the crew of the smack Gainsbro' Lass recently picked up a fino stag in the White Bnoth Roads, in the Iumber. Though nearly cxhausted when taken on board, and consequently very quiet, ho soon came round, and after being refreshed with carrots, cabbages, \&c., he took it into his head to knock ererybody donn who went near him. They managed, however, to keep him till next morning, vhen, meeting s smack bound for Hull, they transhipped him, glad to get rid of such a passenger. The captain, When he arrived at Hnll, handed him over to Mr. S.
Fern, who, after securing his legs, put him into his Fern, who, after securing his legs, put him into his
cart, and, rightly guessing to whom ho belonged, cart, and, rightly guessing to whom he belonged,
drove him to Burton Constable, where he is now browsing in tho park, none the worse for his trip to sea. It appears that Sir Clifford Constable's staghounds met on the 29th, at Hedon, and the stag, being pressed, took the Humber, and wrs picked up as dej

A Practical Jtrr.-Tho clip the following from The Field:-"At an industrial exhibition recently beld at Vicnne (Isdre) a vointy of artifcial legs,
constructed on an catirely new principle, were exposed to vierr. Tho jurymen, whose duty it was to decide on the comparativo merits of the instruments, wero much perplexed. At last they bethought them of assembling half a dozen Crimean and Mexican amputes and starting them orer a half.milo course equiped with the rical legs. The prize is atated to hare been won by an incalde, both of whose legs rero taken off at the knee, bat who, nevertheless, rero taken of at the knce, bat who, "
rent over the distancr in nine minutes."

Dread of Cattle Phacte Intection-A correspondent of the Irish Furmers' Gazelle writes to that journal, as follows:-"I fear, from the great number of Connaught-men now coming from all parts of England to spend Christmas at home, that some of them will convey the cattle plague. Can you andopt any precaution regarding them?"
The reply of the editor is as follow, -"We regret to say that cat!le dealers persist in going backward and forward to Eagland, and never think
of changing their clothes. Thero wero more than of clanging their clothes. Thero were more than
one of those persons in our market this week, and although remonstrated with, still continue the crucl practice. Those dealers or jobbers may hare some other means of living shonld the catilo plague be brotigit into this conatry ; but we cannot ton streng
ly condema their conduct, which is monstrous. If lyey condema change their habits, we will publish their names, and hold them up to public condemation. It looks to us liko defying Providence."

Hrdroriobla.-A remarkable case of this mysterious diseaso is related by a correspondent of The Field. He says: "In the month of March last a dog, apparently mad, found its Fay into tho frounds of a gentleman residing in Hertforghire. It bit the game kecper and eeveral doge. The part bitten in the
keeper-the wrist, I believe-was immediately excised. Tho bitten doge were sent to tho Veterinary cised. Tno bitten doge were sent to tho Veterinary
College, London, snd kept thero for somo time. Appearing healtiny, they were taken home and regu larly shot over. About three weeks ago, ono of them, a raluable ritriover, showed decided symptoms of hydrophobia, and died mad. Tho virus had, there fore, lurked in this animal for eight months 1 As the history of the case is now being thoroughly investigated at tho Veterinary College, with the presumed view of a properly scientific description of all the facts by competent authorities, I offor
my orn on its remarkable features."
The Econoyy of Steay.-In a recent issue of The Field we find the following :-"Enough ha heen written from time to time to convince the mos sceptical that steam cultivation, as an cconomical
process, is an established fact; and we are, accordingly, surprised that anyone who has weighed the evidence, and cramined carefully into the subject, could have written such a letter as appeared some twelve montlus since in tho Times, in which it was stated, "That the question was as yet in too elementary a condition to bo adopted by tenant-farmers. Why, is it not a fact that the most successful cmployers of steam-tackle are rent-paying farmers? and What is more, not one of those men who have once
given it a fair trial would be without its assistance on any account. No doubt we havo not arrived at perfection-improvements may from time to time be made; Dut we have mastered the great difficnlties. Steam cultivation has been taken from the realms of theory, and fairly started on the sober roadway of practice; and or all the improvements with which the present age has been fruitfal, this undonbtedly demands the first place."

The "Peeler" and the Elepiant.-Thr Moming Post gets off the following:-"On Monday week a menageric left Manchester for Dundee, between one and two o'clock. The elephant was ridden down Market-street by his keeper, and such an unwonted sight at that hoar of the night 50 frightened some
pedestrians ceturning from a party, that they ran screaming into one of the side streets. A constable of the $A$ division thereupon remonstrated with the kecper for riaing the elephant in the street at such an hour, and after some high words, sought to excrcise his authority ; but the elephant distinctly intimated his disapproval of sach a procecding, and the policeman narrowly escaped a blow from the animal's trink. Nothing dannted, the policeman they procecded to the Victoria Stations. The elc phantand his keeper were by this time in tho bos about'to start by the two o clock train, and thu polico endeavored to get at tho keeper. Ho called "Char ley, Charley," and the intelligent creatare at once struck at the polico with his trunk, but fortunately missed them, and the police, convinced that the cle-
phant

The Monex Gcide,-Says Dr. Livingstonc, "The honegguide is an extraordinary bird; low is it that erery meraber of the family has learned that all men White or black, aro fond of honey? The instant the littlo fellow gets a glimpse of a man, he hastens to greet him with the hearty invitation to come, as Mhis translated it, to a bees -hiso and take some honey He dies on in tho proper direction, perches on $n$ tree and looks back to sce if you are following; then on to another and anollier, till he guides you to the spot. If you tu not aceept his first invitation he follors you with pressing importunities, quite as anxious to lure the stranger to tho bees'-hive, as other wods are to draw him away from their own nests. Except while on the march, our men were sure to accept the invitation, and manifested the same by a peculiar responsire whistle, meaning, ns they saill, 'All right, go ahead ; wo are coming.' The bird nerer deceived them, but alrays guided them to a hire of bees, though some had but little honey in store.'
Polsosors Pluytnigs.-Mr. W. B. Tegetmeier writes to The Fitell as follows :- Some time since I directed attention to tho nen chemical tuys knomn as Iharaoh's surpents, and described the poisonons properties of tho sulphocsanide of mercury of which higy aro composed. My friend, l'rofessor Cburch informs me that he has tested the vapour given of by these fiery serpents during combustion, and that be finds it contains a very considemble quanity of mer cury, sufficient to amalgamate wi hand decolorise a pieco of goldleaf rery rapidly. As tho rapour of mercurg is rery inumical to the human constitution too much caution cannot be used in playing with these poisonous toys.
"My immediate object in writing is to caution the reader against a still more poisonous compound which is likely to come into very general use. It is described in the following paragraph, taken from the Standard of Tuesday
'A bright light, possessing rery high actinic porrer, is produced by the combustion of a misture of treentr-four parts of well-dried pulverised nitrate of potash with seren parts of flowers of sulphur and sir of the red sulphide of arsenic. This mixture can be sold at 3d. a pound, and its light is therefore much cheaper than that of magnesium, to which it is sai't
to be unly very slightly inferior in actanic caergy.' to be unly very slightly inferior in actanic caergg.'"
'I will only add to this account, that thas com pound cuuld at twe used in any enclosed bulding or room, without the arsenic, which rould be volatilised during combustion, imperilling the lifeand certainls injuring the health of crery person who inhaled the Glightest amount of vapour produced by the burning."
Tife Effects of Clipate on Anthals.-Tho following recently uppeared in the Paris correspondence of the Loadon Times: "In a remarkable rrork,"','Espace Leste et ia Naturo Tropicale, by BI. Emmanuel Lais, the well-known traveller and astronomer, thare occurs an interestiog disquisition on the effects of climate on the organic world. The author's opinion, sounded on personal observation during a long sojarn in tropical countries, is worthy of notice. Tho
great dircrsity of regetable and animal productions on the globe, according to climate, shows that the climate exercises some infuence on them, bat this infaence, according to Mr. Liais, is only indirect. Certain beings, it is true, can only lire in certaio climates, and if transported to another will de ; but, on the other hand, those that can bear emigration constantly retain their generic and specific characteristics, whence it is to be inferred that, eren before moving, their nature was such as to permit of their being acclimatised elserhere. In the case of man, it Was formerly supposed that difference of colour procceded from climate, but it is now prored that under the equator the European still preserves the characteristics of his race: While the black, whether transported to America or Earope, still remains as black as before. M. Liais denies that domestic animals ever return to a supposed primitive wila type, for he has scen in the campos of Erazil oxen and horses as diversified as our domesticated breeds, and which, nevertheless, can only be caught by the lasso. Animals of different colours have different degrees of strength. The parasites that destroy so many horses and oxen in America do not attack, in all colonies, all varietics with equal violence; and jet no rariety or breed secms to hare, for all that, pre dominated orer the other, and therefore led to any uniformity. Nor do epidemics attack all races alike. In 1850, at Rio de Janciro, fellow fever raged simultaneously with cholera; but the former only attacked the whites, while the latter almost exclusively fastened apon the blacks. It has often been eaid that in topical regions sheep lost their fleece, which mas replaced by hair. M. Liais denies this, stating that it is their wool which prerents their spreading all over the country, becauso certain troublesome parasites abound; for instance, in the Brazilian campos. These parasites get into the thick Wool a


Tu Cobaremomers Wia are in recoipt of quite a luse halget of rommbimations many of them of an ionpurt.met mind intere-tinz harne fer which. owing to the d.ste of their arival an 1 presesure of other matier. itus-imposible to puhlish in uur prewent indue. We irnet that thow of our rember who have not eeen their contributions in priat, of had their empuiries unan twired inour columes, will accept the dexurance that they will receive our earliest posstble attention.

I or Enmd Ramats Wastal. Jabhi-Fancier" writes from Toronte, an followa. - "Could you or any of your correspondents inform me of whom I could purchase a pair of thoreughbred lop-ared rabbits, of tortoiseshell colour? I have made a great many ent quiries for some, but misulesfolly. and have gei with balf breeds only.
Ans.-We eannot give the desired information. but perlaps some of our readers can.
Took Mim at mes Wumb.--•. i. (i. F.," of Toronto, communicates the fullowing:-" A bec-loving tamer of Toronto tomnship, the other day, took two of his neighbour's little guts-one thirteen and the other fifteen yeas of age to see his beea, and offered to give then a hate it they would carry it home lumediately they acepued the chathenge, and whon the crening came, having selected the hest one of thirty or forty hives, they with great toil and perrever nee succeeded in carryiur, their sweet tre isure home, -a distance of nearly a mile, greatly to the surprise of the houschold. And on the following morni:-, they assured the donor's son that they ded not get a single sting :
Chusch I'uls.--Clericns" writes from Brant Co. on this subject:-" I am glad you hare begun to take up Chureh Architecture in The: Cwabi Perver. There is great need of it. The country iv diafigured with unsightly structures, devoted to public worship, which the rerg heathen would be abmmed of The plan in your last is a pretty one, but I would heg to suggeat whether anotber sty!e of builling would not be tnure suitable in many parts of Camala. A Gothic building, to look well, should be in stone. Tro me a rlap hardeld or plastered struction afferting the (ionhir duagu luohs like aping what cannot be rarrion ant At aby fate, I am sure there are many plares where lambir and lime are cleap. White ctone $i-$ argere and dese, and where the ordinary lomal unehanin al hahat might pat up very neat buildingo at much lo es cust, of sume otber stgle, if a good pulan wern fuminhed Will gun nut gire us, before long engraringe of a country church in be built of humber if hir lourded ur pilastered on the outside, set on a goved solud fundation of etone, with square headed windows, Venetian blinds to beep out the hot summer sum, twere strung enongh in carry a bell. and timned spire ${ }^{\text {n. }}$
Avs--We will condeatur lefere lung to comply with the request of onr correspondent
Large rs Shani. Brelio ut I'me. C. A.Jundlon, of Wellman's Corners, Mestings Co., writes thus:-- From several articles published in Tue Chada Faluer, 1 have judged you have a prejudice against the iurge breeds of pige, in farour of the smaller Suffolks and Essex. I shulld be surry to say one word against those brecds, but where the latge breeds (Yorkshire, for instance, are selected with due regard to smallgess of bone and fineness of skin and hair, their produce will mature at as carly an age and athain greater weight, at that age, than any small hreed. I send you a clipping from a local paper, showing the weights of three pigs from a common sow and a Yorkshire boar. as follows:-
"Mr Felix Graham, 2ad cen. of Thurlon. slatghtrred three epring pigs on the 28th ult., weighing respectircly 202,297 and 308 lbs. They can $\cdot$ on the

15th of April, 1865, thus making them eigbl months and thirteen days old when killed. Thes were got by and thitien days old when killed. Thes were
Mr C A. Jordison's imported Jorbshire boar."
Ass. - Wo beg to nesure our esteemed correspondent that we hase no "prejudive" against any of the inproved brecds of pigs. though we acknowledge to a liking for the smaller lirecds, especially the Eseex. Notivithatanding vur preference, wo have a very high opinion of the breed of lorkstires, for which our correspiondent has long been famed; and if he will turn to our isenn nf March 1i, 186t. he will find in a long illustrated artiche a tine engraving of his favourites, of which, anong other things, we said ;-"" They are equal ly valuable for making ether farge or small bacon. that being only a matter of age. Ho ulso said oi the bred. "itif widely diffused, has athained a permanent claracter. and is desprvedly colebratod." In the article referred to, Mr. Jordison's name is mentioned among the brecelers of lorkshores in this comntry We are glad to tind from the above clippog that erem a cross is found to ho so improving and atecesfill, and we ask those who pertinacionsly contime to keen the "natives," to matrh the foregoing, or evon make an approach to it. if they can.

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## The Cimada dianer.

TORONTO, UPIER CANADA, FEB. 1, 1 sfif.

## The Lav Relative to Dogs and Sbrep.

luphitive changes were made in the law relative 1. dugrond shetep by an dot passen at the last Ses. sivin of the Phobatal Parbanemt. The existing -hatat form mach darther than the ohd one dad, and if it be properly carried out, wall do mach to protect the shect, interest from the moury it has heretofore sustamed through the depredations of doge. The following is a sumanary of the dor and slecep law as it me stands.
r is pusided that there shall be teried anmually, in ubey municipality in Upper Canala, upon the uwner of each dof therein, an ammal tax of one dollar for each such animal. The assessor is required, at the time of mahing the annu.t assessment, to make lists containing the names of all owners of dogs in the municipality, the number of dogs owned by each, and the amount of tax duc. The owner of erery dor liable to taxation shall, when raquired by the assessor, delirer a description in writing of every such dog owned or possessed hy him. For every neglect or refusal to furnish such a descrintion, and for every false statement made in ang description furnished by lim. the owner shall he liable to a penalty of $\$ 5$. The assessor is required, within the time allowed for the completion of the assessment roll, to furnish the collector of the municipality with a duplicate of tho list of owners of dogs liable to taxation, and the amount pasable by each-attaching thercto a direction to the collector to collect the mones. The collector proceeds in collecting the dog taxes just as in the collection of other taxes imposed by the municipality. The moneys so collected and paid to the clerk or treasurer of the municipality "slall consti-
tute a fund for satisfying such damages as may ariso in any gear irom dogs killing or injuring sheep in such municipality,"and the balnnco, if any. goes into the general fund of the municipallty.
The owner of any dog that hall. kill or injure any sherp or lamb. shall be liable to, the owner of the sheep or lamb for its ralue, withont proof or notice to the owner of the digg, or of hawiodge by him that his dng was mischit yous or dieposed to kill sheep. The owner of any sheep of lamb that may be killed or injured by any dog, may apply to two justices of the peacr. Who shall iuguire into the matter. They shall view the sheep injured or killed, may examine wit. nesses on oath in relation thereto, and if satislicd that the sherep or lamb waslilled or injuted by dogs, shall rertify the fucts of the case, together with tho amount of damages sustained by the owner. Such certificats shall be prima facte erilence of the facts thercin stated, in any suit that may be brought against the owner of any log, provided it shail be shown that due notice was given him of the intended application to the justices of the peace. If the party injured cannot discover the owner of the dog by which his sheen was injured or hilled, or fail to recover the value o the sheep from lim, he may apply to the clerk of the municipality, producing the certificate by the justices of the peace, aml an anilavit by himgelf that be lias not been able to discover the owner of the tog, or that ha las failel to recover from him. The clerk ahall lay this epplication bufure the Cumbel atits urxt sitting, and the Cunncil on being satisfied of the filure to discover the umer of the dog, or to obtain the uamages from him, shall issue an order upon the treasurer for the amount of damages certified to have been sustained-such order to be paid out of the fund constituted under this Act, and from no other fund whatever If the owner of the sheep aiterwards recover damages from the owner of the dog, he must relund the same to the treasurer of the municipality. Any person may kill any dog which be may see clansing, worrying, or wounding any sheep, umless it is done by permission or dir tetion of the owner of the sheep or his servant. The owner of any $\log$, to whom notice suall be given of any injury done by his doy to any sheep, or of his liaring chased or worriced any shecep, is required within forty-eight hours, to causo the dog to ke killed. The penalty for nerteriting to do so is $\$ 250$, with at further sum of $\$ 12 j$ for every forty-eight hours thercafter untul the do: is hilled. But it mast be proved, before these penalties can be recovered, that the dog had chased, worried, or injured sheep; and no penalties shall bee enforced when it sball appear to the satusfaction of the court that it was out of the power of the ovaer to kill the dog. When complaint is made to the clerk of any municipality that any of the penaltics imposed by this Act hare been incurred, it becomes his duty to ste for them; and all moness recovered shall be added to the fund for the satisfaction of damages sustained by owners of sheep. Every person in possession of any dog, or who shall suffer a dog to remain about his house cr premises for twenty days previous to the assessment, or to the time at which any damage is done by the dog, shall be deemed its owner for all the purposes of this Act.

## Agricultural Products and Markets during 1865 .

A rew notes in regard to the abore will, doubtless, increst our readers and be found usefill for fluture reference. The past year has beer one of prosperity and progress. It opencd amid general gloom, consequent on a succession of bad crops, and tho depressed condition of irado all over the Province. Through the favour of Providence every cause of deprersion has been removed, and the present year has dawned amidst coidences of contentment and hopefulness. $A$ most abundant harsest, and a continuance of brisk, high markets, have operated almost magically
in completely reversiug the asnact of things. Wo shall brictly rerien the hisiory of the year, bo far as if relater to the leading products of the farm.

## GRAN AND FLocr.

The grain crop of 180 os has not only been $n$ heavy one, but it has also been of excellent quality. White wheat in scveral of the old townships was good, although somewhat smutty, but in tho new townships it was of very superior quality. From Cobourg cast the crop was a partial failure. West of Cobourg, however, especially west of Stratfori, it was very beavy and the sample of wheat, excellent. Spiing wheat in the front townships was a light ceop of average quality, whilst in the rear townships the crop was sp'enditi. l'eas were also a Arst-class crop. There was more barley grown in Canada during the past year thion cree before. probably moro than double the quantity gromn in 186t, almost all of which found a market in the United States. During the past year not le;s than 2,992,432 bushels wero shipped from Canadian ports to Oswego nlone, of which nearly 700,000 bushels were from Toronto. The shipments to Chicago from Toronto were, during the past season. $32, j, 010$ bushels, and to Toledo 67,532 busbels.
The total shipments of barley from Toronto by water wern $1,107,211$ bushels, being largely in excess of the shipments of wheat, our great staple, there laving bern but 770,692 bushels of wheat sent amay during the same period. These figures do not include the quantities that may have been taken by railroad. Large quantities of peas lave also been shipped, principally to Montreal, to fill English orders. The price of barley at this port, has fluctated betwen 53 e and 80 c , these being the lorest and bighest prices of the season. The previous season 5\%c and 8ic were the lowest and highest prices given at this point. Peas, during 1865, have fetched from 50c to 90 c . In 1861 they brought from 50 c to 63 c . Wheat bas ranged in price as follows:-Fall wheat, from 50 c to $\$ 155$; Spring wheat, 80 c to $\$ 115$. The previous gear the prices stood-for fall wheat, from 84 c to $\$ 105$; and spring wheat from 76 c to 30 c . For the first three months of the past jear, prices kept pretty low and steady, int towards the close of navigation they took a start and went rapidly up. It then began to be feared that there would not be enough grain in the countiy to feed us until the new crop was ready for use, and some speculation, therefore, ensued. Prices consequently kept advancing, till they reache a point at which it became prostable to import flour and wheat from Milraukee and other western markets. A large quantity of their best wheat and fiour was so imporied, and being at once put into competition with our own, checked all tendency to any further havance. Prices were well maintained until harvest, which was an carly onc. From the very first appearance of new grain and flour in the market prices took an upward tarn, and kept steadily adraucing during tho greater part of Seplember and $G E^{i}$ गher. As the season for shipping by water, drew to a close, bnsiness very sensibly languished, a reaction set in, and to effect sales considerable concessions had to bo made. Stocks were light, however, and the few who had any on hand preferred shipping on their own account, to taking the prices offered by buyers on the spot.
The flour market has fluctuated greatly doring the pust season, as the following table, giving the highest and lowest prices of threc usual grades, will show :-

|  | No. 1 Super. | Extra. |
| :--- | :--- | :--- |
| Lowest prices..... $\$ 378$ | $\$ 4 . \mathbf{X}$ |  |
| Highest prices..... $\$ 587$ | $\$ 750$ | $\$ 450$ |

It is almost impossible, with the means at our disposal, to arrive at any definite or correct estimate of the quantity of grain still to be brought into market. A few weeks of good sleighing will probably solve this problem, which at present occupies the thoughts of dealers, and about which very diverse opinfons are entertained. Farmers are this yu* in a better position to hold on to what stock ther in' $y$
yet hevo on hand than they havo been for many years past, - Td they aro not scomingly disposed to accept much 1 wer prices than thoy have already obtained. Under such circumstances, it is dimicult to express any opinion as to tho amount of business likely to be dono during the remainder of the vinter. Tho largest quantines of grain not yet marketed are in the counties of Huron, Bruce, Gref. Simcoe. Peterborough and Victoria, whero n largo slock of sound spring wheat and oals jet remains. Want of sleighing has doubtless had much to do in kecping the graln yet in hand from fading its way to market. Comparatively little has been done by shippis:; to England during the past year, tho buik of our business having been with our neighbours across the lake, who this year have absorbed all our best samples and neaniy all our higher grades of flour, and a gi at part of our farm produce of every description.
Mruch inconvenience and loss hare resulted from the-as it appears to us-mistaken policy of our great leading railway, in neglecting local interests for the sako of the through irafic. Produce dealers aro entircly nt the mercy of the railways, more especially
of the Grand Trunk. The power of the eading oflcials of that line over the produce market is little understood or appreciated by the ger ral public, and the mode of its exercise is a matter Gi sulficient importance to justify legislative action.
The uncertainty which prevailed as to whether the Reciprocity Treaty will bu renewed or not, has withleld speculators from joining in any very large operations, and every effort will doubtless bo made ly dealers to get their purchases across the line before the $16 h^{2}$ of March. Should the treaty not be renewed, there is not much apprehension among traders that the interests of the country will materially auffer. Agriculturists will adapt their productions to the change of circiamstances, and soon fall into another path equally lucrative, and perbaps more adradtageous, because moro independent of foreign infuences.
pone.
Considerable change has taken place in the pork trade during the last commercial year, and unprecedented activity has characterised this branch of busincss. Purchases here were mainly made for shipping in the hog, although packers for city and back country use, rcaped tho largest profits. It is estimated that the "whole hog" exports of last season mould average 200 logss per day, throughont a season of some ten weeks, the reajority being consigned to Montreal. The value of the pork bought, shipped and retained for the home market, is variously estimated at 1,600 to 2,000 tons, worth from $\$ 320$,000 to $\$ 400,000$. But little barreled pork was put down, so that Chicago was the chice source of supply for our summer demand. Drice: ruled high; June delivery, Mess, $\$ 18$ to $\$ 20$; August and September, $\$ 21$ to $\$ 25$; Prime Mess retaining its price at $\$ 3$ per barrel less, Nessrs. Wm. Davies \& Co. are the most extensive packers in this city. Last year they packed and shipped over 400 tons of bacon to the English market, besides a large quantity for home consumption. This year the samo firm are heavily engaged in the trade. Owing to the high prices come fanded by all kinds of provisions and the reported scarcity of hogs, it was generally anticipated that nork would open at, and maintain, a very high rate. The dropes of hogs bought by Americans, the high price of peas, and the light stock of old barreled on hand, all conduced in the public estimation, to fix figures, having $\$ 10$ for an average. The season opened, however, at about $\$ 850$, advanced to $\$ 10$, and since that has eased off to from $\$ 7$ to $\$ 740$, at Which rates packers are slow to take hold, belleving rom Western indications, successive declinations, that the maximum has been reached, and that a further decline of at least \$1 may reasonably be expected. Receipts, 80 far, have been small ; but, as the season advances, are expected to inerease. The quality of the pork already brought to market is reformer year, the effect evidently of "hard feed." BEEF.
It is now some years since 1. I stock to any extent had to be imported into Canada. On the contrary, we have had to notice each year the increase of onr exports, bat especially can wo call attention to the great increase of the past season. Almost double the weight of cattle; at' nearly double the price, has fonind its way acrose the Bridge in the year 1865, over any former year. The operations in this trade eri-
dently were stimulated by the reguirements of the American commissariat; but the war being over, the army necesidities have vanished, and another year so successal cannot be reckoned apon, unless, indeed, the catlle discase abroad is sufficlent to affect the markets. The condition of live stock is, on the whole, searcely so favourablo as last jear, which is atributabl to the parched pastures caused by tho dry weathr. The marketabln stock in tho hands of farmers is now small, and a similardrain nest season Would become dangeruus. There is, hoverer, judging from present nppearances, but little prospect of this. The caftle prohibition order, issued by the United States government, has put a complete stop. per on this branch of trade, and the cxpected repal of the Reciprocity Treaty will effectually check, if not wholly destroy it. It is altogether probable that in the form of fresh becf, ice-packed, and of cornbecf, barreled, a remunerativo matket (will preseut itself in Britain for all our surplus.

## netter.

We are glad to observe that the season's operations in this stople have yielded a good return to all engaged-farmers and dealers. Canadian farmers, or rather their wives, are, however, only learning to make butter, for cach successive season a decided improvement in quality is perceptible. While the quality has improved, the quantity has increased. dairies being now found by farmers to be as remunerative in proportion as cereal crops-if not moreso. The extensive canvas of our country by American cattle buycrs has considerably thinned the stock of milch corss, nevertheless it is estimated that the yieh ${ }^{3}$ of butter will this year exceed that of any former one by some thousands of firkins. In reference to the system of making and packing, some changes are especially desirable, in order to enhance the value of Canadian butter in foreign markets. Among the improrements, we would suggest uniformity of package in regard to size, weight, and shape, tho less frequent ase of hot water in churning, the absence of the slightest variation in colour, and the use of a finer quality and less quantity of salt, and in no case more than a spric se on the top of the clean white cloth. More wolking prior to packing would also enhance the ralue of Canadian butter. We will venture tostate that 25 per cent. of the butter brought. to this market, if not rancid, tastes cheesy, or of buttermilk. Diferer ${ }^{+}$parts of Canada are noted for different and distinct classes of butter. Brockville different and distinct classes of butter. Brockville
butter, for instance, has a provincial reputation, and commands anywhere and at any time four cents per pound more on its own merits than that of other torns. Many country storekecpers deserve censurefor the negligeitt manner in which they receive and pack butter. Every bue,from sickliest buttermilk to glowing orange, is received by them at one price, and heaped promiscuously on bins in their cellars, there to remain cintil enough has been collected for a gencral packing. The exposure of butter to the air is very injurious, as is also the indiscriminate mirture of colours and qualities, Many storekeepers, however, we are glad to sce, are beginning to reform their method of butter packing, taking a practical lesson from what has been to some of them, very dear experience.
The present season presents a gradual rise in prices, commencing in spring and extending to lst November. Then, as navigation was about to close, freights to advance, and the Sonthern markets became nearly supplied, a decline was experienced, which has since continued as steadily as did the advance during the summer. Speculation throughout the summer months ran high, carrying up prices to a point which we believe was nerer surpassed in Canada. Exportation to Britain was suspended early in the season, as the state of the merket would not warrant a margin, and the superior inducements of the American markets led our shippers to make their consignments in that direction.
Prices ranged as follows:-In June, 12ł cents July, 14 cents; August, 16 cents; September, 19 cents ; October, 21 cents to 24 cents.
cazese.
The usual imports of cheese have decreased materially since last year. Canadian factories aro increasing in capacity, and improving in quality, supplying a mani long fult among us for good Canadian cheesc. The South Riding of Oxford is fast becoming the Herkimer of Canada, and in a fow years it is anticipated, if factories continue to increase"among us at
changed to an export trade. In sympathy with other products, choose has commanded good figures all the season. In August and September prices were the season. In tugust and september prices were
9hc. to Ilc. On tho setting in of cool weathor, an 9hc. to lle. On tho setting in of cool weather, an
antance of 3 c . Was experionced, leaving the marbet andianco of 3 c . Was experio.
still in farour of tho seller.

## wool

We have a checring report to give of this artielo. now rapidly assuming an important place anong tle products of Canada. Shecp-husbanury, stimulated chiedy by the high price of wool, has inereused largely, and the highly satisfactory results which have followed will, wo hope, encourage farmers to still further exertion in that direction. The quality of the crop is yearly improving. Canala wool has always, and does now command the highes price in the American market. The great bulk of the Canatdian wool-nearly all of that pulled in the carly part of the season-finds a market in the Chited Shlles, and last year very high primo"y wre realiad in consequence of the seareity of callon, and the pront demand for coarse cloths for military purposts. The demand from our neighbours for wool to manefacture woollens and army clothing has, since the war began, been considerable. This demant. coupled with that for our own rapidly increasing home mannfactures, had the tendeney 10 increase the mumher of sheep in the country, and making tis culture and growth an item of great importance to agriculturiets. At the close of the American war, it was thought that prices would decline; owing, however, to an increased amount of worsted machinery goine into operation in the Eastern States, and there beime com. paratirely little combing wool grown in the Enited States, our market suffered no daterial decline, but continued throughont the season to be largely resorted to by American bugers. It is supposed that wool will not decline to the old level of prices for some gears to come, on acconut of the high price of colton, notwithstanding the probability, if not certainty, that a probibitory tarif will exchade this article from the American market. ?'rees opened at from 33c to 35 c in the latter end of May, and adranced to 42 l c to 13 L in the latter part of June, and althourh sereral American orders were withtrawn prices kept remarkably steady throughout the season. In the fall the marbet was left bare of deece wool and manufacturers of Canada tuceds were furced to 8 great extent, to supply themselves with pulled sools, a new feature in the trade. We bope manufacturers will find it to their ulvantage to use anore of these rools in the future. We woukd urge upon farmers the great necessity of keeping their mools free from burss. and having it properly washed letore shearing. Buyers now use moro discrimination in their purchases, and the best handled wool may be expected to bring the best price.
The gradual and satisfactory progress of the wool trade will be seen from the followiag figures, whith show the total exports of wool from this port for the last seren jears. Within relich time the trade has grown from almost nothing to its present rery considerable proportions:-
Total exports of


The total puantity of wool purchased at this noin during the present scason is computed at 350.000 lbs. which, at the high arerage nrice of tuze per lb ., roo presents the large sum of $\$ 157,500$. paul into the pockets of our farmers for this brinch of agricultural industry alone.

## Chicago "Union Stock Yards."

Serspal of our American exchanges hare detailed accounts of a mammoth uudertaking recently carried out hy Western stock men, for the accommodation of the vast herds of cattle, that congregato at Chicago for shipment castward. The Prairic Farmer contains an eagraring and description of the bnildings and pens. We gire an abridged aud rondensed nutline of the gigantic enterprise. A company ras incorpora:ch for the parpose, with a capital of one million do!lar ; a locnion, comprising 345 acres, fice miles mouthward from tho city Lourt House, was purchased and thoroughly underdrained-nearly thate miles of drains und sewers being requited, 500 sards and pros. from 20 by 35 , to 85 by 112 fect, wero built, all of them, as wo understand, With .plank loors, some corered, and many provided Fith gates, to that
off into streets and alleys, and include four principal divisions-tio first divislon, $\Lambda$, belonging to thic Chicago and Rock Island Railroad, and the Mlinois Central ; division $B$ is assigned to tho four castern roads, tho Michigan Southorn, Michigan Contral, Pittsburgb and Fort Wayne, and the Chicago and Great Eastern; division $C$ accommodates tae Chicago, Burliagton and Quincy, aed the Chicago and St. Lonis; Clvision D will be used by the Chicago nud North-western liailroad. Suitable buildings for hay and corn are erected, and very capacions tanks for water, which is convejed by nipes, ageregating over six miles in length, to every pen and yard. a hotel, moreover, is luilding, which will cost, when completed and firnished, about $\$ 300,000$. A sbort distance from the hotel is the exchange building and binh. In this builuing are the bank office of the Secretary of the company, the exchange room of the brokers, and a refreshment room. On the second lour are telegraph omices. Cottages, stores, and worh humess will be crected on theggrounds, for the convenience of the employees. The cost of the yards is suid to lare already been orer $\$ 1,000,000$. and considerably more will be required to complete it. About $15,000,000$ feet of lumber have been used in planking and yous.
Such is a meagre account of what will loubtless化 fomad a most saluable addition to the transportation facilites of the great and growing emporium of the far West.

## D. C. Fruit Growers' Association.

Wr: publish elvewhere the procecdings of the Annual Merting of this bolly, together with the I'resident's address, in which the objects of the Association are very fally set forth. It is to be regretted that a larger mumher of persons are not eurolled among its memliers, and in the habit of attending its meetings. Durmg the few years of its existence, the Association has, in a quiet way, accomplished much for the farmers and garduners of Canada, by the engniries it has mand and thr information it has gathered, respecting the pussibilities of fruit culture throughont the country, ly the list of fruits adapted to these latitudes. which it has made up; -and by the stimulus its disussinns have imparted to the professional and amateur orchardists who hareattended its gatherings. It is apable of achiering far greater results, were it more extensively patronized. The eniargement of its membership, ronld both put it in possession of means to attempt rarious useful projects, and bring a greater number of fruit growers under the influence of its healthfil stimulus. Our American neighbours maintain such organizations with great liberality and spirit; experience having prored their ralue and uility. We hope more of those $\pi^{2} n$ feel intirested in the derclopment of the resources of Cumada as a fruit country, will join tho Association, and lend their help in formarding its useful aims. l'arties desiring to become memuers, will address the Secretary Treasurer, D. W. Beadle, Esq., St. Catharines, enclosing one dollar.

## Literary Notices.

Thr: Axericas Agricclaterist.-Wy opened the January number of this able monthly with moro than usual cariosity and interest, it being the first issue since 1 sis absorption of the Gencsee Fiarmer, and the adalition of Mr. Joseph Harris to its already cffective editorial shaff. The first page is adorned with a dine engraving of Mr. Bonner's noted "Auburn Horse." for which his proprietor gavo the sam of \$13,000-a modest price truly for a gelding. The usual " Hints about Work," on the farm, and in the gardra anu grecn-house follow; aller which we hare the Apiary, some business notices, and "Our Banket" which is crowded full of useful articles. Five pages of raluable miscellany come next, and then ro hare Nin 2 r of the " Walks and Talks on the Farm," which the readers of tho lato Genese Farmer found 80 intercesting and instructive, and which are bencoforth to be continued in the Ariculturist. No. 25 is not, in our opinion. quite up to the mart mado by its prode cessors, but this is hardly sappriaing. It begins with 3 regrelful referenco to the pmaning akray of the Gorksec Formor, and a confumion of a "littio mar
scribers. Mr. Harris will be "himself again" soow and writo with his usual versatility and spirit. As it is, the "Walbs and Talbs" mathe two of the best pages in this numiver. We cannot even pive a list of the titles of the remaining articles. Suflice it to sey that the paper is well filled, and that the illustrations of which there aro more than the usual quantity, ars very excellent. A whole pago engraving, entitled "A Merry Christmas and a llappy New Year," is a beautiful work of art, amd well worthy of being framed. This prinee of the :arieultural monthlies is published by Orange Judd \& Co., 11 l'ark Rom, New York, at $\$ 150$ per annum, lamerican money. In clubs of 20 or more, $\$ 1$.
Tue Simpiy Scaonl Disl.-Thi- litale paper, de roted to the religious welfare of shiluren, weh merits a passing' word of commendation and enrouramement It is free from sectarian bias amd is filhed frim munth to month with rery choice reading, original and selected, not only suited to "the young folks at home," but well worthy the attention of the older folks. Canadians nught to be patriutic cnough to anstam their own juvenile periodicals in preference to such as come from other countries. Several home-produced chiddren's papers are in existence, some laving a denominational cast, and others. like the Dical, of unsectarian character. The Dial is the cheapest amone them all, being oniy fifteen cruts a year for single copies. Eleren copies to one adaress are furnished for \$1 50; 22 copies for $\$ 3$, and :o on. Orders for this excellent little paper should be addressed to Mr. A. Christic. Hox 46s. PO Toronto
 yon IS6C.-Wic have received from Mr. F. E. Grafton, Bookseller, Montreal, a sample cops of this valnable little work, and to all who are acquainted with furmer issues of it, nothing mure ated be said, than that it well maintains its previous reputation. Lpwards of 100 pages of reading matter, illustrated by $130 \mathrm{cu}-$ gravings, all referring to matters of farm economy and rural pursuits, $a^{m}$ here offred for the small sum of twenty-five cents.

## Agricultural 켠utlligguct.

## Officers of Agri:altural Socievies for 1866.

We herewith append lists of the onficers of such of our Agricultural Societies, for the carrent y ear, as hare como to hand. We hope to the able to gre more in our next issue.
Nortin Ridena of Osforin.-l'resident, llou. Geo. Alezander; First Vice do, John Marwich, Esq. Sccond Vice do., John Dunlop, Esq. ; Sccretary and Treasurer, W. Grey, Esa. ; IIonorary Veterinary Surgeon, D. Muceachran, Visp. Directors, Messrs. A. Tew, Capt Coman, E. LIuggins, If. I'irker, Jobu Craig, II. Welford, and Xr. Lockihart.
Bhemieis Aghicelttrar, Societr:-l'resident, Stephen Hall, Esq. ; Vice-President, Capt. Coman ; Sec. \& Treas., Gco.F. Williamson. Directors. Wm. Mason Thos. Spiers, Wim. slexander, A. Tew, D. Wakedeld, Thos. Nichols, Johu Ilall, and Alex. Pattullo.
Norwica Agrictetcrat. Snceity.-A. 13. Moore, President; William Cohoc, Vice-President; Wm. S. Scerf. Secretare and Treasurer; Director, I. IB. BarKer, Wm. Treஸtry, S. J. Woodrowr. I Masacar, If Vanvaulkenburg, Afordecai Iesuolds, II MeLces, Vancaulkenburg, Afondecai Me
Fm. Austia and suam Stover.
Furdocasp (West Branch.)-Iresident, Alex. If Thompson, Esq ; Vice-l'resident, Isaac Gediles, Esq., Secrecary, A. A. Daris, Esq. Jirectors,-Sencen,Androw Tarnbull, Nathanicl II. Wickett, Gcorge Jefricy, and Thomas Messenger, Esqg. Uneida,Walter Anderson, Thomas Martindalc, James Ferguson, and Andrew Kurray, Eş̧. Norila Cayga,William VYilde, Esq.
Smita, Elartit, Normi Docmo, and Nomi Mona-GBAN-MGichach Sanderson, President; Emanuel Nann. Vice do. ; James Mann, Treasurer: Win. James Symtb Secretary. Darcetors, tho lict. V. Clementi. 3 . $A$ Geo. Pani, Isaac Garbuth Gerald Eiemenil. 3. A. S. Dean, Thomas Mann, Ym. Gill. Samuel McKubbon. und Lewis Dafics.
Enss MrDDLESEI.-Fresidrat. Mr J. Johnson; Sco

Rowat; Second Viec-President, Mr. Thos. Shore Treasurer, Mr. Alex. Kerr. Directors-L London Townshup, M1 J Tuckey, Dorchester, Mr IN. Tooley;
 Whenton, McGilliviny. Mı. Jas Smith.
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Brighton, Wilam Dinun, ol Mirray; William Humphies, of Leroy, Willima Conklin, of Cramahe

What Rumat Nomthembimanb.-Mresident, Mr. Jno. Fisber; lst Vice-Irwident. Jr. Wm. Roddick; 2nd Vinder; 1st llourn; Treasurer. Mr. W. Riddell; Dirctors Mussrs. Jobu Cullis, Geo. Carruthers, Wm. Beatty, ioseph liaker, Joln' I'ratt, Ifeary Wade, and James M. Carruthers.

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Sur rit Whamatos.- I'resident, Win. lhin; Vice-
 reblay and Treasurer, George Murton.
 son; Vice-1'resident. Mr. Jolm Underwood : Secretary Mr. Richard Culla; Treasurer, Mr. I'. MeEvers; Directurr, Meesrs. Jubn Williams, John MeFinley, John Newton. John Isentty, Wm. Defoc, Wm. Eagleson, G. Benuet, IR. Setten, and Wm. Mason.

Wesr Mumbesta. President, Malcolm Medrthur; 1-t Virc-President. Gearge Butters ; 2nd Vice-President. William Ilarrison. Directors, William Buttery, D. M. Camplell. John Henderson. Allen Carmichael, Donald Camplecll. Thomas Mogle, Christopher Connor: James Kecfer, Secretary and Treasurer.
Nimth Liming or Weinmatos.-Wr. W.B.Telfar, Mresident; Mr. J. Cattanach. lst Vics-President; Mr. C. Clarke, Ind Vice-lresident ; and Mr.J. Deattic, Sceretary and Treasurer.

Jen The Oltama citizen says that it has authentic infurmation that the manufacture of square timber in the Ortarra distaict this season will amount to $15,450,000$ feet of white pine, and $1,415,000$ feet of red.
Reciprority - The Monireal corrrespondent of the Ghobe says:-lt is linted here that heciprocity will
be continucd beyond the month of Jarch, for the be continucd beyond the month of Jare
parpose of securing mature consideration.
 paper states that a cow in that rillage lately comzaitied deliverate suicide. She walked into a brook, ind, aner three attempts, held her head under mater wh she was drowned. The motire was probably dread of the cattle discase to be imported from Canada.

A Gonn Muret.. Wic are informed that Mr. P. S. Divorm of Sonth inanrers, Diass, orrns a grade Shorthorn cow that dropped a calf in Norember last and fir the tri days ending Jannary Sri, has arcraged $25 \frac{1}{2}$ puarts of milk daily ; some days she has exceeded 24 quarts. Country Cionlleman.

A Yorve Corvice Mr. Donald Fraser, of Ernestorn. owns a bififer only trrenty months old, that a fer days since became the dam of a fine, hoaltby calf The sire of the calf is threo days younger than thin dath Both the hill san heifer won tho first
prize in the yearling class at the township and county Ehors last fall.

Inmuer Slcceajer. Iltating Partt.-Another Firty of thr cariboo hanters, consisting of Messrs. P. I, Naughton, Mian Gilmour, and Jobn Giloour, jr., n. ren of those in one das. Also aboat 200 trout and - FTHares. - Em.

Nork nr ED. C.F.-Query : are they not indictable for the trout killinis? Trout sparn from Norember at that acason they onght to be.

Cow Diseabe ay Veruost.-The Burlington Free Press ksys that Mr. Heary Wilson, of Hinesburg, has recenlly loss five cows, out of a herd of forty, by a disease apparently the same in each case, and termin ating in teath nbout trelve hours from the attack.
This causes consldorable alarm anong oproers of cattle in the immediate vicinity,
doriceltchat, beromts for 1860.--The Agricultural products exported from Uontreal in 1865 are Whe follors:- 250 , 1961 . Oats, 233,780 arainst 118,599 in 120. Manufactured tobacco, 13,080 agbinst 86,661 . In the number of cattle, sheep horses, \&e., 21,439 to 2,050 in 1004 . There is a great decrease in oil, wool. and leather exports.
The Lido Mlamet in Fasace.- Iggs are now dearer in France than they have ever been hown. They are eclling at the rate of ls. 9d. per dozen. We presume that this is in consequence of the demand for cefgs used in mannfacturing: The price is equally high in Enfland. Our deaters in this article, who at
present shin to the States, may lind a protitable market in Eurone.

Watemluo Jailary Maher.r.-The market on Tuesday turned out a splendid success. Early in the morning large droves of cattle were seen coming in rom all directions, and what is of equal consequence plenty of busers were on hand to purchase. About
one lundred heal of cattle were sold, the prices being much better than could suve been anticipated after the prohibition of the importation of cattle to the linitel states. - Waterloo Chroniclc.

Cow Kinarn.-On Friday erening a cow belonging to benis: libliason, living near the station, Oshava, fell into lis well and was killed. Ste probably went to the pump to drink, when the boarding around it roke throngh. The accident was soon discovered but the woll heing forty- five fere deep, it was several
houns before she wats got ont, and then died.-Oshaca İindicator.
Omo Wuol Ghomens.-The Uhio Wool Growers' Association held a Conrention at Columbus recently, and adopted resolutions approving the nolicy of terminating the reciprocity treaty between the United States nad Canada; that the wool growers' interests are entitled to an cqual degree of legislatiro protection with that accorded to manusecturing intercsts; and that a tar ought to be leried on dogs sufficient to raise a considerable revenue for the gorernment, or materially diminish the number of doge, or both.co. Gent.
Oct Vieir to AT.-Fiespecting the prohibitiongot the import of Canadian cattle, the A. Y. World sass:--It would bare been quite as rise.to prohibit Canadian men and womea from crossing to this side lest they should bring the cholera rith them, for there is neither cholera nor cattle discase in the I'rorince. The treaty has only a few Wecks to lire. and this petty,
indirect legislation eridently decrades the united indirect legislation eridently degrades the United
States in the estimation of the Provincial peonle.2 This is preciscly our view of the matter.

Catire of hradere nime Untred States.-The Commissioner of Agriculture at Washington has receired a raluable paper, communicated through the State Department by Mons. Emile de Speser, on the subject of the culture of madder, which he claims may be successfully raised on the rich soils of the Unitcil States. It is estimated that the net ralue of this dye that may be grown on a single acre rould be $\$ 6 \pi^{2}$. When it is considered that the importation of madier from rrance amounts to $\mathbf{2 5 , 0 0 0 , 0 0 0}$ francs annualls, if any reasonable approximation to this profit could be realized per acre, Western agriculturists should lose no time in attempting its culture.
ommpticte Varies Farmisg.-a cortespondent of the Grecuficld Ga=dle mentions a farmer of Hiat field, Masse, who " has haulcd 350 loads of muck into his barn-sard this fall, to bo composted for spring usc. and contcmplates an addition of tro hundred londs more of organic matter before hanling out and applying to his already productive acres. He bas made farming pay:" The same writer remarks:"Considerable actirity is manifested in the sheep markel, about 2,300 haro already arrired in town to be fattcacd tho coming winter, and many more are cxpected.:
Bbisk Trade of U. S. Goternment Lavin - The nt traordinary activity in the sale of pablic lands appear in somo oflicial reluras just received at the Gencral Land Omes At Ean Claire. Wisconsin,
11,000 acres werc entered for actual settlement 11,000 acres were entered for actual settlement
daring the:manth of December, at St. Peter:s, 3linnesots, 4,200 -acres; at Orcgon Citj, Orcgan, nearly boldat; California, tho cash sales for November smonaicd to riearly thitty-ftro handred đollars.

The Pore 'l'rads.-" It is estimated," eays the Trade Revicer, " that tho total number of hogs packed in the Western States thus far is inside of 600,000 , while at this date last gear the packing was up to $2,000,000$. The amoint of money paid out by tho packers, therefore, this scason, is about $\$ 15,000,000$, against $\$ 50,000$ to the same date last year,-a differenco of $\$ 35,000,000$ agains: this season. As to whether tho deficiency in the log crop whll be made up it is impossible to say."
Sirectlation in Aprles.-Eeveral losses have been sustained by the orchardists of Western New York through the failure of apple luysers, who bought their crops of fruit at cxorbitantly high prices, but unfortunately for the sellers on credit, the farmers in the single town of Greecn, DLonroo County havo suffered o the amount of $\$ 100,000$ and over. The blow reached all classes-- the rich and tho poor-the man who had a five hundred or a thousand barrel orchard, and the widow whose littlo all was comprised in fiftepa or twenty barrels of fruit.
Mesvy Pigs.-A subscriber in Delaware Coanty sends us the weights of four pigs raised and fattened ly Messrs. Kilpatrick \&i Grimin, of IIobart, in four successive years, namely:

1. Age- 7 months, 26 dars-Weight.... 311 lus.
2. Age- 7 months, 23 days-Weight.
3. Age-7 months, 20 days-Weight. ... 300 ..-
4. Age-9 months, 5 days-Weight. ... 363

These were Suffolks, and the facts are given oring to our pablication, Dec. 14th, of an Yrish farmer:s chal lenge for pigs that would reach $22 t$ lbs. weight at 7 months.-Country Gentleman.
Man Khmen, - A man named Henry Wright was killeal instanty, on the $12 t h$ ult, near Oakville, by the falling of a tree, while engaged in chopping. He had been married but a few days, and was much respected for his bonesty and industry. Such sad events occur very fregucutly, and are the more to bo regretted, because they are always the result of arligence aul carelessuess. There is really no danger of being hurl in chopping down a tree, if people would act with ordinary discretion and care.
Avomer-Since the abore ras put in trpe, another and yet sadder caso has transpired. A sim cou naper sars:-"Mr. Stephen Sincoe, of Forest rille, County of Norfolk, was killed on Friday last by the unexpected fall of a tree rhich he ras chopping While his wife was attending his remains to tho grare news was received that her honse. with all its contents: including one hundred and fifty dollars which her late husband had scraped togetber for the las payment on his farm, was destroyed by fire. Thero were three children in the hotise at the time, but they managed to escape.
Butrir w New lome- We find the folloming in in En. Thibunc: As butter has recently dech號 rood lots; holders aro a long way abore that yet eft, the season leing much earlier in nagland than here, and thny begin to talk of ner butter in Febru ary. IIolders are debating. Whether to sacrifice now or later, as it is pretty criuent many lots must be sold mach below cost. Ho noticed sales of a fair dairy of Telsh thbs at 35 c ., and-one lot of NorthWestern at 25c. There is a large stock of Canada butter now on the marict:?

Stimp Tanfy Wheat. - The Rochester Cuionsags -"Several nhysicians of our city hare cerpresecd themselves in the most decided inrms in faroar of the proposition to keep back the damaged wheat now ying at Chicago. They all concur in the opinion that there is no such prolific canse of cholera is fonl grain. and if cholers is not prozailing it mnst produce otber diseases scarcely less fatal. Onopbysician who resuded in Buffalo yenra ago, when tho cholera premaicd, states that the discase was worst among the men cmploged ahout the grain olezators and ships." A good deal of this "stump tailed wheat." as it is called. is imported into Lower Canada. Where it is commended by its cheapaess.
Corn Muhasses - Mr. Thomas Randolph, a farmer of this connty, residing between Worthington and Cascade, informs us that ho has tricd the experiment of majing molasses from tho staks of suret corn. If says tbat it is suprior to that made rom sorghum or imphec. The corn stalks ficld as mach molasses as tho sorgham. Ho prodises to. send us.a sample when wo ghall hare tho quality' hested by judges and report their decision. If it sustains 3lr. Mandolph s opinion it will bo of no small consideration to our farmers, as the sweet corn staliks. Will mature in this Rendolph nsed his corn atalks immediatels after be had remorich tho crop of cars for tiblo use-Duinuque Times.

## Homedale Farm. <br> PREPARATIONS.

Mr. Perley found it necessary to visit the farm sereral times before removing his family to it there bring many things that required attention, it w wh the approaching season of busy spring wirk The. former owner and occupant of the farms Miturn berry, had sold wath a bew ot remosing to whe it the newer counties, where he might buy it larger tract of land, and settle his boys around hitm. Thes is a very natural desire on the part of a parent. but in many cases, the means taken to bring it about, are not the wisest. Suppuse a furmer has three sons whom he wishes to have for neighbours. is it not belter that he and they should divale the old place of 200 acres, into four farms of fifty acres each, than that they should sell it. retire to the bach country. and buy four lots of land. each the size of the entire, undivided farm? It is too much the habit of our farmers in the front counties and townships, to till superficially a large farm, and get enamoured of expanse, so that they cannot endure the idea of narrowing down their boundaries Broad acres charm them more than deep ones, and hence when they have sons to settle. they decide on going bach into the bish, and entering on the slavish worh of clearing up new land, instead of bestowing be:ter tillage on the land they hare, erenifin order to do this they must cultivate less. Nowit would hare been quite imposfifty acres well-tilled was better than one of two hundred skimmed over in the way he had been in the habit of doing, and the idea of one of his boss settling for life upon fifty acres of land, would hare seemed to him most preposterous. So he resolved to remove to a newer part of the country, and having "sold out" the farm, it became necessary for him to sell on most of his stock and implements. Following the usual custom, he had an auction, the terms of which were the stercotyped ones, "Under $\$ 10$ cash: over that amount twelre months' credit, on furnishing approved notes." Mr. Perley altended tho sale, and bought some of the stock and farm tools, together with the hay, straw, and unthreshed grain on the premises. Some of the articles, in conscquence of the long credit, sold at prices which were really caorbitant, so that Mr. Yerley did not purchase them, fecling satisfied be could do better at private sale. His experience as a merchant, had taught him that eome people will give rery foolish prices when pay day is put of a year,-and it also taught him that pay day soon comes round,--far too soon for many who buy on the spur of the moment, and withont proper thought of the future. It became necessary for Mr. Yerlcy to hire a trusty man to take care of the place, feed the stock, and do varions jobs of work. and so Peter Jones, a hard-working, handy, faithful fellow, was taken into his emplos. The few weeks that intervened betreen Mr. Perleg's entry into possession, and his removal to the farm, rere not allowed to pass by animproved. Petcr was kent busy in hauling several cords of wood that hat been bought of 4 r. Turnberry ; cutting and piling it up for summer use; splitting rails; repairing and rebuilding fences; hanling manure; pulting tools in order, and the like.
On the evening previous to one of his visits to the farm, Mr. Perley àià to his cldest son," Charles,
 sible to convince $\mathbf{A l r}$. Turnbery that a farm of them is orer before they are ready. By sowing them
would you like to go with me to the farm to-morrow?" "O yes, papa," was the reply, " very muoh indeed." "Well," said Mr. Perley, "you shall. It is time to begin to think of gardening." "Why papa," exclaimed several voices, " how can you garden while the frost is in the ground" "If we wait'till the frost ts all yone" said Mr Perley, "we shall lose our , hance of getting early regetables and fruits. We 'an + luy vabhage celery, and tomato plants at the firm as we can in Mamilton, neither can we get lialsam aster and other flower plants, to set out there If we want these things we nust make a hot bed and raise them for ourselves." "Can't we have some muck melons and wate: melons papa?" said Lucy "O yes," chimed in the rest, "they are so good " "To have melons at the proper time," eaid Mr. Perles. "they must be started in a hot-bed They taste the best and are most wholesomo during the hot weather of July and August. In this country, though they will generally ripen if sown in the open air, get they come so late, that the scason for enjoying in a hot-herl, and gradually hardening them to the open air. as the warm weather comes on, they can be ripened in good time." The family group had a nice talk about hot-beds and other garden matters, and Charles trent to bed full of anticipation as to his risit to the farm. and firmly resolved to do all he cond to have a good garden, with plenty of nice things in it.


Ho. ニ-corstre or hotsid mays
Next day they had a safe and pleasant journey to the farm, and soon anter their arrival, Charles, assistcd liy the hired man Peter, went to work at the hot hed. His father gave the necessary directions, and kept in eye to the work as it progressed. First, they made the frame. They took two strong boards, twelve feet long, and an inch and a half thick; one, eight inches ride for the front, and the other, sirteen for the back. The cads were made six feet long, and


sloping from back to front. For the convenieace of taking anart, and packing 2 rray when not in me, they made the corners as shown in the accompanying cuts.

The frame was to be covered with four sashes. three feet wide. These, a carpenter who lived at the village near by, had been previously instructed to make, so that they only needel glazing, a job which pleased Charles not a litlle lle tuok great pans to do it well, making the panes of ghan "sem hap the bottom of the sash, and also ex li wher ahent a quarter of an inch, laying them hhe shamphes on a roof, su as tur carry off the water When the frame was all ready, they chose a shma, -pot, luohug to the south-cast, and buht athathe heap, with fresh horse dung, the same shape as hie " fa rilue, but a foot or so larger every way. They lad the mantre, layer after layer, evenly all round, as ti they were making a hay-stack, until they had it neuly three fect high. Then they pressed it down pretly lumity, and set on the frame and lights. Having beat the sides of the heap with the back of the dung-fork, and combed it down neatly, they left it to shand for a few days, until the heat should rise. Fig. 1 shows how the hotbed looked when it was funished, ready for the soil. Mr. Perley gave Peter orders to put in from six to nine inches deep of good rich loam, when the heat rose properly, and promised to bring seed and sow it when he made his next visit to the farm. Charles was to go with his father to Mr. Bruce's seed store, in Eamilton, and help to look ont the steds, and he left the farm with the prospect that his hot-bed would bo full of young plants when, he next saw it.
(Tu be continued.)
Abvice to muse niman of Cholema.-Keep your bowels in guod urder, heep sour spirnts up, and be careful huw you poula ganr spurno down.
fore it wife, who utten stumed at her husband, was sitting with him at the breakfast table, when suddenly, amid loud coughing. "Dear me!" she exclamed, "a bit of pepper has got into my windpipe !'-IIurricane pipe, you mean, my dear," coolly rejoined her sareastic spouse.
Pone and Porato Pie.-l'ut into a deep dish some pork bones, from w hich the meat has been removed for sansages or other use. Amidst these bones pui slices of apple and potatoes, with chopped onious, salt and pepper. Ald a little water, cover with crust, and bake slowly.
Bmas Stock--Put a large handful of bram mite a quart of water, boil, and then leave to s:mmer till the quantity is reduced to half. This will furnish an excellent and most nutritious stock, which may be used in many ways. It will do excellently for the "thickening" of meat soup. It will make very good soup of itself, if onions, sall. and pepper, with a few regetables, are mixed in it. It will be very nice sreectened with ireacle or honey. Indeed, for hoarseness, soreness of chest, and colds, nothing is better than bran fea sweetened with honey, and taken loot in bed.
Cookng as Os.d Men.-The Massachusdls Ploughman gives the following directions for "serving up an old hen so that she shall manifest, to morlal palate, all the delieacy and tenderness of youth:"
Just cut her up into joints, taking care to go by the joints so that you don't get in any spliuters of bones. Pick up all the bits of meat you liave in the bouse, bones too if there is any ment on them. any odd pieces of ham or bacon. leg or shoulder of mutton, and a slice of salt porl, and cut a few slices of fat bacon and some bread. Take an carlhen vessel with an carthen corer, with a lit of a hole in it, the cover, we mean, and put a layer of bread at tho bottom of this ressel, then a layer of hacon, and then fill in with all the scraps and joints you happen to have ; they must bo swect and clean of course, till the ressel is full. Then all up the hollows and cracks with water, and tio down the lid. Put it at night in a very warm, not hot oren, and let it stay till morning. Take it out at your leisure and put it in a cool place, and when perfeclly cold, you will cal with gusto, citacr for breakfist, luncheon, dinner or supper, and you'll find it not only tender, but juicy, and delicately navoured and highly nutritious. The water that you put in will hare turned intojelly, and the wholo will cut liko a red veined marble. There is no way in the world you can work up an old fowl so economically or eo splendidly. We should liko to sit down with rou to that dish.


## gatistilantous.

## Gurling

Ccrang, as most of onr readers are arrare, is the national game of Scotland, as cricket is of Eogland The latter, howerer, can only be indulged on the summer sward ; while the former aplly comes with its bracing exercise, and its cxhilarating excicement to reliere the monotony of rinter. The haniywork of "Jack Frost" is required to furaish the strung, been ice. That being secured, and a few sons of "bonnie Scotland "at hand, the "slanes" and "bizzims" will soou be in active and noisy operation; and the "roaring game " will be forthmith pursued with an amount of carnesincss and good fecling, which, eren to an " uninitiated" spectator, is at once interesting and delighlful. Curling is a complete lereller of distinctions. The aristocrat and the peasant, the clerayman amp the cirilian. play their stones and ply their brooms on the curlivg "rink," in a kind of masonic brotheriood. The "slip "-wbether his daily arocation be to "carry the hod." or to "sbake the semate,"-is king of his band on the ico, and his directions to "soop lecrup," or "up bizzims," are promplly and implicitly obeyed.

The spirited illustration at the head of this article, givesa fairidea of the gatue of curling, the seene being Toronto bay. It will be readily understood that while no artist can represent the actire morements of the phayers, no description of ours can adecuately convey an idea of the jubilant stoouts and maviang of brooms, whicla follow a sttecessful and well-direcwd shot. The game nust be seen and heard to be appreciated. This is fortunately no rery dimicult matter in this Province. Almost ercery torn, and many villages eren, rejoice in an enthusinstic band of "curlers," and a regularly constituted curling club. This is as it ought to be; and we trust that coming rinters will see the number of our "rinks" largely augruented, and the healthy game more generally practiced among our rural populations. During the few buss summer months, our agricultural communitles hare serere demands on their labour. Winter, also, has its dutics; but rith these should bo com-
bined, in a rational degrec, somo checrful and inno cent recreation-in the prosecution of which, brain as well as muscle would bo braced and inrigorated. These advantages curling possesses in a very high degree ; and, in our view, the game well desertes the encomiums of the Scottish bard :-
"Hurraht harral for tho Carling Eing, Arajed in ley mall:
Welcomo again hits mantlo white,
Spread orce hill and dale.
Ohi fresh ase spring.lddo's curly flowers,
And eneet tho saugs o' May;
But tho roatin' rink and channcl stane, Croma the Caricr's bolldas."
It rould, of course, be impossible within the limits of this article to describe the various technicalities of the game. Half an hour's close obscrration of a contest, played by skilled players, will do more towards revealing the points of the game to the "uninitiated," than rcald sereral pages of description. The following is a briefabstract of some of the rules of the game published by the "Rogal Caledonian Curling Club;" and adopted by the curlers of this Province:
The leagth of the rink is forty-two gards. The Tecs, or marks to play at, aro put down thirty-cight yards apart. 14 hack, or hatch, is.made in the ice four yards in a straightline behind the Tecs, in which the player places his foot when playing his stone. A circle of seren feet radius is described from each Tee as a centre. No stone counts which is entirely without this circle. The bog-score is distant from each Tee, one-sixth part of the length of the rint. Every stone is a hog which does not clear this score. A rink is composed of four players a side, cach with two slones. The plagers of each side play one stone alternatels with theiropponents. The "skip," or captain, gencrally plays last.
We forbcar quoting further from the miles, as they may easily bo procared irom the Secretary of any regularis constituted club. The game, as scen in progress, appears remarkably simple. The first player endearoars to lay his stone as ncar the Teons poseible. If it be a little short of it upon the midule of the rink, it is reckoned to wo fully better than if it touched it. The object of tho next in order is nearly tho samo as that of the "lead." The nextiries to
guard the stone of his partner, if it be near the Tee, or to strike off that of his antagonist if it be nearer. The one who follows, if a stone belonging to his own party lie nearest the Tee, tries to protect it; if one of the opposite party, to strike it off. Or, on the other hand, if no stone be near the Tee, to draw a shot, that is, to make his stone lie as near the Tee as he can. As the game adrances, it almays becomes the more intricate. Sometimes the stone nearest the Tee, which is called the winner, is so guarded that there is no possibility of getting at itdirectly. It then becomes necessary, in order to remove it, to atrike another lying at the side in an obliquo direction. This is called "wicking," and is one of the nicest points of the game. But, as re lase already said, half an hour's obscrration of the actual game is worth manypages of description.

Hove.- Home can never be transferred, never ropeated in the experience of an indiridual. The place consecrated to parental love by the innocence and sports of childinood is the only home of the humad beart.
"A CaEst of Old Iroi."- $A$ correspondent of the Rural Newo Yorker arges bis brother farmers to keep a loox in which to deposit all the odds and ends of old iron that may come into their possession. Old bolts, muts, washers, screws, rivets, horse-shoes, plough-points, bits of band and hoop iron, pieces of tin, old files, staples, broken liages, \&c., \&c., may thas be stured away for use. When a farm implement needs repair, a search in the iron bor will, in many cases, be rewarded by finding "just the thing " necded. It is astonishing liow much may be done in this way with a little ingenuity ard contrivance.
"A Sketre Nimmotr a Strar."-This long-lime desideratum is at leagth supplical in Shirley's Patert Skate, made liy the Harkins Manufacturing Contpanz; of Birmingbam, Connecticut. It is made catircly ef metal, conforms to the natural shape of the foot, has no straps to stop the circulation or creato discomfort, is casily put on and telsen off, and is not liable to get loose, or out of place. This improrement obriates one of the objections to a hea!:hfal and picasant ont-door rinter amusement, the popalarity of rhigh is a good sign!


## Cullings from the "Horticulturist."

Tus valuable American monthly has commenced the new year with a rery interesting mubber. We Whonld like to transfer sume of its lunger articles to our pages, lut that bems wit of the question, we compromise the mattet by condensug abd chpping. The author of " My Farmat Edgewood, cuntributes a characteristic article, "On not doing all at once,"

- a thing, by the way, which is not very likely to be thought of, excent by some wealthy man of taste whose extravagancies take a rural turn. We cut out a tit-bit or tro from this article :-
"I would say to any one who is thoroughly in earnest about a country home-make it for yourself. Jenophon, who lived in a time when Greeks were Greehs, advised people in search of a country place, to buy of a slatterals and carcless farmer, since, in that erent they might be sure of seeing the worst. and of making their labour and eare, Burk the largrit results. Cato, on the otherhand, who represented a more effeminate and scheming race, advised the purchase of a country home from a good farmer and judicious house-builder, so that the buyer might be sure of nice culture and equipments,-possibly at a bargain, It illustrates, I thak, rather fiucly, an essential diference betreen the two races and ages; -the Greek, carnest to make his own brain tell, and the Latin. eager to make as much as he could out of the brains of other people. I uust say that I lise the Greek rien best.'
So do me.
"Half the charm of life in a conntry home, is in every week's and crery season's succeeding developments. Your city home-When once the architect. and plumber, and upholsterer have done their rork, is in a scose complete, and the added charms mast lie in the genial socialities and hospitalities with which you can invest it ; but with a country home. the firlds, the fluwers. the paths, the hundred rural embellishments, may be made to derelop a constantly recurring succession of attractivo features."
* For my orn part, I enjoy, often for months together, some startling defect in my grounds-so deep is my assurance, that two days of honest habour will remore it all. and startie on-lookers by the clange. Thus, if I am not greatly mistaken, we are accustomed to regard some farourite sin-thinking with our-selves-it will be so easy to mend that, so simplo to reform it all; and we go on coddling the familiar pipe, or glass, or the triling stretch of onr credit, and What not, meditating with high glee upon the profound satisfaction with which wo will come down upon it all some fine morning-as farmers do, by spasms, ypon their weed patches. But thercin lies the excelline of the rural activities I commend) we keep the sits green and growing, and the sweep nerer comes; -while the old wall and the riotous weeds are one day whisked array under the besom of a new purpose, and the clange is magical, inspiring and exhisarating I don't mean to say the conquest of a
farourite sin would he any the less so ; I only mean farourite sin would he any the less so ; I only mean
to say, that, your chauces of making tue conquest are far less."
The chances are les becanen the inclination is dess, and the " new purpose " fals to address itself to the work.

George E. Woodrard, anthor of "Conntry Momea," has a suggestive paperentitled, "Ilow to remodel an uld farm-house," which comes in very mell after the counsels of "Ike Marsel ' of Eigeroood, but of Which we can give no further account for want of the illustrations,-"The farm-house as it was." and "The farm-liouse as it is." They show rary clonaly that many "an old firm-house," might be made a rers desirable home, at far less coel than it womld require to build a new onc.

The author of "Ten arres rnough." nelt furnighes an account of himself and his neighbours. which perfect strangers to both will read rith much intereyt.

Here is an extract about a gravelled turapiko leading from Burlington to Camden, on which Mr. Morris's far-famed "ten acres" front. It shows that good highways raise the value of property not less than riilruads in some cases:-
"The road bed is level, smooth and hard, almost equalling a tenpin alley, aza superior to any race course. A dash of iron contained in the gravel, imparts to it a remartable solidity. It is so well cared for by its owners, that a bad road is altogether unknown. Ita construction has doubled the value of every farm upon its track. Everywhere it is lined with improved drellings, better fences, tiner orclards, and more productive fields. Loaded waggons roll over it, by aid of a sidglo horse, where two were formerly required, and the pleasure carriages of the neighbouring gentry invariably selectit for an evening drive. There could be no more convincing illustration of the transformation in improvement and population which follows the creation of a superior rosd. It draws old settlers from remote neighbourhoods to locate upon-it, and with strangers looking for a lodgment it is the determining element Which fixes their choice. Thus population clusters about it ; and as it is population that gives value to land, so as that thickens do values increase."
The writer's success in making a garden out of a bog is note-rorthy:-
"An adjoining swamp of a few acres has been added to my ground, not because ten were not really enough, but because it was a neighborhood nuisance, grown up, since the foundation of the world, with ferns, and skunk root. Some patriot must abate it, and why not devolve the task on mo? It is now, after threo years' labour and attention, drained, filled in, and producing, on a four feet deep foundation of clear peat, a strawbery crop which annually refunds the entire cost of reclamation. Drought never pinches the plants, and manure is wholly nanecesof ary. Wherever the raspberrics, come within reach of this deep, rich, and erer moist deposit, the gromth of cares may be said to be amazing. An Philadelphias, thus situated, hare been the admiration of all who hare examined them. It has beca a great success, though it drew dorrn upon me the heartypity of my neighbours, as they drore by and noticed my incomprehensible beginning; but now, when fully completed, securing their equally hearty commendation."

Describing a ucighbour's place, he gives the following particulars respecting an unusually fruitful vine :-
"There is an extensive trellis which is ennually loaded with the Isabella grape. Until tasting these this fall, perfectly rinened as they were, $\perp$ never knem the Isabella grape was fit to eat. Struck with the admirable flarour of the fruit, as well as with the perfect condition of each particular grape, I inquired Why the fruit of these vines was so remarkably fine? The owner smiled as he told us that the carth around the roots rias the general burial ground for all the cats, and dogs, and pigs, and mules, and horses which had there shumed ofl their mortal coils since ho had been upon the farm. What marvellous elaboration
there is in nature, I concluded- from secming eril still caucing good, ${ }^{2}$ concluded- from secming eni tect no trang of pork, nor the faintest farour of a mule teak."

A S Fullor, an eminent grower of grapes, and author of a work cutitled "The Grape Culturist," reviess the grape experience of 1865 . He gives its histors thus sententiously :-
"Rotted badly ; mildewrd some ; prry poor ; rosebugs played the mischier; execllent in our section, and brouglt a good price. The atoove, I beliere is a fair report of the grape crop of 1865. .'
This writer deals very sarcastically with the idea that some lands are thought to be made for vineyards, while others are not, and while admitting the special adaptation of some soils and some locations for this fruit, coutends that it will grow over as wide an extent of country as apples or pears, and in as great a varicty of soils. speasing of diseases affecting particular localities, he sags :-
"I brlieve that the only disease that is at all fatal to the grape east of the Alleghanies, is one that is fien found west of them, viz, neglect."
In answer to the qumana, "What shall we plant $9^{*}$ he says:-
"For my part. I mould not liesitate to plant, for profit, any of the following-Delarare, Iona, Israclia, Concord, Crereling, Hartord, aud Rogers Nos. $3,4$. 15 snd 10. If this is not variety monerb. youl may ald Adirondac, Clinten, and Isabelia."

Peter IIenderson, in an articlo headed, "What not to do," has the following paragraph :-
"A rascal of a tree-pedlar, not content with victimizing a poor farmer near me, in the sale of two bundred worthless apple trees, added still further to the injury by inducing him to put a bushel of stoners in the bottom of each hole for drainage ; which was lone at an expense that the poor man was ill-able to bear. I need not tell your inteligent readers that the advice had better not been given. Apropos to this subject is the so called draining of plants grown in flower-pots, almost universally practiced by amatears and privato gardeners, and recommended carcfully in dotail by nearly all writers on green-house plants. Now, in the face of all these hosts of iustractors, I contend that this practice is not only uscless, but something worse, as it robs the plant of just so. much soil as is displaced by the drainage (?) without benefitting it in any way whatever. Yet such has been practioe the of thousunds for a century, each one following the lead of his predecessor, stupidly and blindly, as we think."
An able article on "The longevity of trees," hardly admits of abridgment, esperially as these "cullings" aro growing too lengthy for our limited space. "A plan for laying out a square acre lot," rith its accompanying diagrams, maybe transferred in a futare issue, bodily to our columns. "The gardens and parks of Gormany;" " A trip to Vincland ;" "New hybria pink ;" "Sarah Howard," with a cut; "Edi. tors' Table;" "Correspondence;" and "Book Notices," form the remaining contents of the January number of a serial which tre highly value, and unhesitatingly commend to such as can afford it. It is published by the 3essrs. Woodrard, 37 Park Row, New York. Price, $\$ 250$ per annum.

## Report

Of tae Proceedngos of the tipper Carida Furin Grokers' Assochation, at tue Anneal Meetno, Meld in tae Cify of Mimilton; os Wedeesdat, Jangany 17, 1866.

After reading of minutes, the Treasurer sutmitted his report, which was approsed. The publication committee reported that full minutes of proceedings had been regularly publishedia Tue Canads Faruer. The President's annual address was then read, for which the thanks of the Association trere unanimously voted, and a copy requested for publication.
The following onicers were then closen for the cusuing year:-
Mis Monor, Judge Logie, I'resident, Min. II. Mills, Esq., First Vice-President ; Dennis Nixon, Esq., Second Vice-President; D. W. Beadle, Esq., Sccrelary and Trasurer.
Frutt Conyitter.-Wm. II. Mills, Esq., Chairman; and Ilessrs. Geo. Laing, W. Molton, R. N. Ball, and Chas. Arnold.
I'cbicamon Conmittef.-The Secreiary, Rer. W. F. Clarke, and Mr. J. A. Bruce.

Neetinges for 1866.-On Weduesday, July 18th, Town Hall, St. Catharines. On Wednesday, October 3ri, at Grimsbs.

Notice mas giren by Mr. Clarke, that he sldould move at the next regalar mecting, to anend Act III. of the constitution, so that the second clause should read thus: "Two other general mectings shall be held, at such times and places as shall be deternined at the January mecting."
The Secretary was instructed to fumish the Publication Committee with a complete list of fruits, recommended by the Association, for publiastion in Tus Caman Fanyrr; and the committee were instructed to have one hundrid copies of the list strack off for the use of members.
The Wagner and Sweet Bungh apples were and vanced to the list for general culsiration, and the Lowell, Karly Strawberry, and King of Tomplins County, placed on the list for trial.

The Sheldon pear. Ponds Secdliug, and Columbia plums, and Belle Magnifque cherry were placed on the list for trial. The Early Richmond cherry was placed on the list far anneral cultivation in all narts of the Proviace

The list of gooseberries was reriscl. and the English matieties placed in a class by themselres, and recommended fir a wlis ation inhere thes do not suffer from mildew
The Whit' Antuerp raspberry was struck fom the list for general cultiration, on account of beit.g found to be rery tender.
The White Marvel of Fiony Seasons, and Doolittre's Blarh Cap rasplerries wore placed on the list for trinl.
Burres hew Pine strawberry was struck from the list for general cultivation, it not haring proved to be sumeiently produtive.
Vicomtesse IIericart de Thury strawherry was placed on the list for trial.
Mr. W. T. Goldsmith made a donation of vol I of Ther Casada Fubaer, and Mr. W. Holton of vol. II., for the use of the Association ; and the President granted to the Association the threc lase volumes of the Canadian Agriculturist thus placing the reports of the proceedings tor the last five gears, in the possession of the Association.
Samples of apples, pears, grapes, and wine made from grapes of the Clinton and lsabella varieties were submitted for inspection and trial by various members of the Association, and discussions in reference to them, formed an interesting feature of the meeting. Messrs. W. F. Clarke, C. Arnold, D. W. Beadle and W . T Goldsmith were appointed delegates to represent the Association at the next mecting of the Western Nirn Iork Fruit Growers' Society, to be held at Rochester, on Wednesday, the 24 th January.
The thanks of the Association were tendered to the President and Messrs. Goldsmith and Holton, for their rery valuable donations, and to the County Council of the County of Wentworth, for the use of their Comncil Chamber ; and, on motion, the meating adjourned.

## Address.

Br Mis Ilovors: Jtmae Loane, Puestoent of the U. C. Fbut Gromers Assochation, at me Anncai.
Meeting heid in Himmono, Ḯtif Jancams, 1860.

## Gfitlenen:

Br the constitution of this Assooiation, I am required, at the annual meeting, to deliver an address to yon, and I only regret that the office of President has not been filled by one whose practical knowledge and experience would enable him to delirer an address on the science of Pomology, mhich mould notonly be interesting, but also instructive to the members of the Association. As I cannot pretend to gire gun such an address, it may be of some interest to pass in review the progress which the Association has made, during the five years that I have held the oflice of President.
I take the liberty of recapitulating from my first address, the objects contemplated in the formation of the Association. They are-
1st. The discussion, by members, of the relative merits of the different kinds and rarieties of fruit; the determination and selection or the best rarieties suitable for cultiration in Canada West, and the publication of the list offruits so recommended.
2nd. The revision from time to time, as occasion msy require, of the catalogne of fruits, and the addition thercto of such ner varieties as may, after a sufjecient trial, be decmed worthy of cultiration, and striking out the names of any that mas, on further trial, be found to be untrorthy of cultifation.
3rd. The promotion by the society of the cultivation and improrement of natire and indigenous fruits, the testing of all new rarietics of frait, the discussion of their merits and defects, and making bnown the result of such trials.
4th. The determination of the names of fruits; and the identificaliop of fruits having different names, in diferent localities, or which, having received new names, hare been distributed as new varieties.
5th. The discussion of all questions relative to fruit culture, and disseminating information respecting the same, such as the most proper or most advantageous modes of caltivation, the soils and exposares most suitable for the different kinds of fruit, the manures most beneficial, and the best modis of applying the same, tho diseases to which the various
fruitbearing trees, ahrubs, and plants, aro liable,
with the remedies for such discaseg. The insects injurfous to the different kinds of fruit, and the best means of preventing or restraining their ravages; the best modes of ripening, gathering, and preserving fruits, and any other matter bearing upon frnit culture.
These objects hare been kept ateadily in view, and have, to a great extent, leen crried out. Wo have had three meetings in each year, at which, besides the transaction of other business, wo have had interesting and important discussions, by practical and experienced fruit growers, upon tho different hinds and rariotles of frait suitable for general caltivation in Canada. Members who have attended tho meetings have succceded in obtaining the correct names of frults which they had in cultivation, and desired to have identifed. New varieties and seedlings have been examined and tested at various meetings, and opinions of members respecting them obtained and expressed. Several impurtant discussions have, from timo to time, taken place, respecting the discases to which some fruits are liable, and the best methods of cultirating other kinds; and, lastly, a catw "gue of the best kinds of fruit suitable for cultivation in Upper Canada, bas been published by the Association, and, from time to time, revised and amended. Such a catalogue is calculated to be of great benefit to all who desire to obtain the best varictics of fruit, and I have no doubt that many have availed themselpes of it, and found it useful as a guide in the selection of fruits.
But, although I am thas able to congratulate the Association upon what they hare accomplished, I regret that in a friit growing country such as Canada is, where many are successfally engaged in the cal-
tivation of fruit, the namber of members, and of those who attend the meetings, is much less than what we might reasonably expect; and I hope that those who take an interest in the welfare of tho Association will point ont its adivankages to others, and endeavour to induce them to become members and to attend our future meetings.
One of the most important objects contemplated by the Aspociation was the production of new and improved viriebee of truit, guitable for caltivation in is by lybridizing haragy fruits of native origin with foreign varietics, so as to secure, as far as possible, the hardiness and freedom from disease of the one, together Fith the fine flavour ayd general excelloncies of the other. In obtaining new varieties by hybridization, a great deal or patience, care, and delicate manipu-
lation are required, and those experimenting in that Fay must erpect many failures and disappointments; they afoald not be discouraged, however, for if they succeed in producing even one or two good varictics, Which are worthy of cultivation, they will be amply repaid for all their time and trouble bestowed in the endearour. It mast aleo be borne in mind by all such, that a scedling does not attain to perfection at once, it mast generally be fraited several times arrive at theirbest condition mach sooner than others, and all that show any promise of goodness should get a fill and fair trial before being rejected; a change of soil or of exposure may canse a fruit that appearcd at first to ve comparatively worthless to become a valuable and erceilent variety. I cannot pass from this part of my subject without noticing the efforts made by one of the most zealous members of this Association, Mr. Araold, of Paris, to obtain new and mproved varieties by hybridization. He has, on sercral occavions, exhibited new varietics of the and Red Cap raspberry with some of the improred Varieties, and at the last meeting of the Association, in Paris, the members then present had an opportunity of eramining and of tasting gercral new rarities of grape, Fhich he produced by hybridizing some of the hardy kinds in cultivation, with the Black Hamborgk and other foreiga linds.
It was anppowed, not many years ago, that the climate of Canada and the Northern States Fas unsuited
to the cultivatlon of the grape, except in a few sheltared and favoured localities, and only two or threc varieties, supposed to be suficiently hardy to stand our climate, Fere in enlifration. Now, howerer, a
great 'chiange is observable. Fithin the last fer great change is observable. Fithin the last fer ande equally or hardy. A spaperior to the old varieties felt in the caltiration of the grape, and in obtaining and introdncing new and improved varieties. It is
now proved, boyond a tigabt, that the climate of this
part of Canada is well adapted to the cultivation of the grape, and we may look forward, at no distant day, to seo our bill flides clotued with fruitful vinesards, and to have wine from native grown grapes that will, to a great extent, supersede the uso of spirituous liquors, and of those deleterious compounds, which, under the name of Fine, are sold and used thronghout the conutry. The progress already made shonld stimulate all engaged in the cultivation of the graye to increased effort.
Before concluding, I shall make a remark or two upon the climato of Canada. Dr. Burlburt, in an address delivered by him some years ago to the members of this Association, sherred that tho climate of Canadn compared favourably with the climates of Ecveral of the wine growing conntries of Europe, and that the mean annual temperature of this part of Canada, was higher than in some of the most noted vine-producing regions. The severity of the winters in Canada and the shortness of the summers have bitherto been against the cultivation of the grape, particularly the late spring and carly nutnmn frosts, the latter of which sometimes prevented the ripening of the fruit. The destruction of the forests, the drainage of the country by enltivation, and the consequent drying up of many of the swamps aud marshes, have had the effect of raising the mean arerage temperature, and of increasing the length of the summer Although the clearing of the country may increase the prevalence of cold and bleak winds, and cause more striking differences and extremes of temperature, yet the arerage mean temperature will be higber. This is known to bo the caso in Canada. The mean temperature is higher, the summers are longer, and the winters shorter than they were forty or fifty years ago, and we may expect this to continue. Germany and France, in the time of the Roman Emnow, the summers then were shorier and the winters much more severe. They were then unftied for the cultivation of the grape, at all events for the rarieties now cultirated in those conntries. There can be no question that similar ameliorating changes are taking place in this conntry.
In bringing my remarks to a conclusion, I would observe that in thege days of progress, when in every department of the arts and sciences so many new discoveries are being made, and so great adrancement is gained, horticulture is not behind its sister arts. It has, rithin our own recollection, made rapid strides, and I believe dhat this Association is calculated, if properly supported, greatly to adrance the art or science of Pomology. I trust that the Association will go on and prosper, and that the time will sood arrive when all who are engaged in the cultivation of fruit, will take an interest in this Association, and endearour to formard the important objects contemplated by it.

Sthambermes in Januart.-The Macon Telegraph of tho 3d ult., describes in tantalizing terms a four acre stramberry bed in that toyn, now in full bloom and fruit, the editor haring jnst been faroured with a basket of lascions specimens, one measaring four inches in circnmference.
Pramtma Caesmers Seceesspllit.-Late in Not., after my garden was well ridged up, I made a terrace about midray from top to bottom of the ridge on the south side. I then put in a few dry leaves, on which I placed the nuts. Then I put some leares on the nuts, and then replaced the dirt, maising it smooth, so the water would most of it run off. In May following, on opening the ridge, I found every nut sprouted, when 1 transplanted them. The object Tras to aroid an excess of wet, and get an increase of beat from tho sun's rays in the spring. Both objects were fully attained. I hare planted chesnuts, Falnuts, and thorn locusts this fall.-S. Mcasser, FFatertoren, N. T., in Country Gentleman.
Qratities of tin: Ontos.-The onion deserves notice as an article of great consumption in this country, and it rises in importance when we consider that in some countries, like Spain and Portngal, it forms ono of the common and unirersal supporis of life. It is interesting, therefore, to know that, in addition to the peculiar favour which first recommends it, the onion is remarkably nutritious. According to analysis the dried onion root contains from treatr-five to to thity per cent. of gluten. It ranks, in this resnect, with the nutritious pea and grain of the East. It is not merely as a relish, therefore, that the war. faring Spaniard eats his odion vith his humble crast of bread, as he sits by the refreshing spring ; it is because experience has long proved that, tite tat cheese
of the English labourer. it helps to suastaln his strength, also, and adis-keyond khat its bulk wonld snggest-to the amount of nourishment which-his simplo meal mpplies,-Gemesee karmer.

## 

## Toronto Markets.

## "Canada Farmex" Ollca Fib. 1, 1800

The pasi fortaight has feen characterized by uninterrupted dull ness llecejpts lase been light, notwillistanding the fall of snows which mado sleggligg jracticablo during the gast week. Wo haro hearl of no transactions of importance.
Flour-ylarket rather brisker; receipts very ligha No, 1 is to
 Fall Wheat dull at $\$ 1.30$ to $\$ 1.40$
Spring Wheat-sales at $\$ 100$ to $\$ 109$
Barley-prices ranged from 65 to COu.
reas quilet, at 6ec to Gic.
oats quict, at 30c to 31c
Rye son:
 $10: 0 \mathrm{c}$
Potaloes-Cups sold at 30 c to 3 jc ; outher samettes, aje to 30 .
Salt-American, in barrels on the whats, si its, on tho cars

Cherse-American prime, 13 c to 15 c .
Eggs-sellingat from 15c to lic for jachied.
Hogs-selling at $\$ 700$ to si 60 percul: pork quith, brices Hay-from si 00 to $\$ 1000$ per tou.
Strate- $\$ 0$ to $\$ 7.50$.
Live Stock - Tho market is ruodemety actire qud pries ano arth. The ligures hero gibela are oflered by the butherers and drovers th this market per 100 lbs , Uressed vethith. -Cittle, 1 st Class,

 Lambs, cacl, \$2 30 to $\$ 2$
Fretr.-Apples, fammers' packed, \$1 ij to $\geqslant 200$.
IIrmiltoin Markets.-Jan 2s.-Npring Wheat, \$1 to $\$ 105$; white wheat, $\$ 115$ to $\$ 1$ Oj; red do, \$1 to $\$ 110$, Peas,





 cach-Spectator.
Kondon Marluets, Jan. 24.-Fall Wheat-supcior, $\$ 120$
 Dressed IIogs, per $100 \mathrm{lbs}, \$ \mathrm{t}$ to $\$ 760$. Oat Siraw, per load, $\$ 3$








 Hay, $\$ 3$ to $\$ 10$. Apples, 3 isic to $75 \mathrm{c}-$ - He former.
Cobonrg Marketa, Jan. 24 -Flour, per barcl, $\$ 556$ to

 jer 1b, 35c to 40 CW Berf, per crit, \$5 to sa. york. \$c to $\$ 750$

Oswepo Markets. Jan. 2 - $F$ Your- 3jarkct ajc per bbl. to $\$ 905$ from red winter; $\$ 10$-5 to $\$ 11$ from trhito wicat; and to $\$ 903$ from red winter; $\$ 1075$ to $\$ 11$ from whito wheat; and Shorts aro quoted at $\$ 16$, aad sbinstungs at $\$ 24 t u \$ \pi$ fier iun. Corn meal-100 lus. bolicd at $\$ 2$ to 8210 , da unboited $\$ 190$ to $\$ 2$, so jbs bolicd io juper shicks \$1 05 , do in cloth do \$1 15
 at:oe irater.

New Fork Markets, Jan 2: - 'ution quart at 48c for
 supertino - tate \$i




 gan. Rye quict, sales 11.000 bushels State, at $\$ 1$ os. Barley duit Corn-Receipts 8. 200 bughels, market without decided Cuanige, but moro achic, siles wä, woo bushers, at i9c su ble lor dehrered. and 8sc to SGc for new yelum Cats Armer, at 43 c io
 for wanda, 53 c iu blu lur Jersey and l'causviranıa, and byc tu we fur buste curgaz quiel fiurs hicaty and arragutar, sales 6.700
 LatEat 3 larkfir-Flour clused dill and unchanged. Wheat
 Lard closed hents at 15o to 28c.'

## gaduertisements.

PRIZES! PRIzES! PRIZES! PRIzES! PRIZRS! OANADA AHEAD, THE WORLD OVER!

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and others or tho United States.
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## 1866

THE CANADA FARMER; a FORTNIGHTLY JOURNAL

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This Jourmal is about to criter, under tho most farourablo ans ices un tho third scar of as cyistence. If has amply fulalled th

 Canadian arriculture
Duriag tho past ycar, a department for Britrgir Guelinuros bas beca iatroduced Special attention has also been given to Frro mouhty, a cubject of great importacice, in fiev of tho lusses uccasfoned uf lato by the fartacrs insect enomies Theso feasores will bo continued, and in addtun to them tho rolloking nex ones - 1 A ecrics of articles on tho philosophy of farming, $w$ bo Theso will cxptaia in a sumpla and practical mantrer the why abia tho whereforo of axncoltural operations, and will form, when cutppleted, a balucilulu farmer's mandal. 2 a natural history department, cuesusuog of deseriphons or Canadian anlmals, blids, reptices and bishes infe hibo iltustrathons Eill accompeny thes articles 3 Lader tho head of Terifineszbold, asenes of articies on farm and garden managument, with a special wiow of intercsiog tho boys and firis ta rural pursuits 4. In coraplianco with the curnished to cach issuc.
a rery lange sum has been spent on illustrations-larger than in any ulhor momar pubicatius-and has feature of tho payme has uen exceedagly attrachivo to all classes Efforts will bo mado, durigg the cuming scar. to secure as much vanety as possible in hus depertmenh and nu expenso Ful bo zpared wher sho havar or horticultural spibject.
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