# FARMER'S ADVOCATE. 

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FREE! FREE! FREE!
 Ioseivan will
January 1 , 1877 .
New wiuberibers sill be considered tho
not eppeared on our bo oks duriny
1875.


## The Provincial Exhibition of $18 \%$.

This Exhibition, as most of our readers are aware, took place in Ottawa on the 20th, 21 st, 22 nc tawa, or those who took part in making prepara tions for it there, have been most indefatigable in their exertions to satisfy the public requirements The Exhibition grounds were in good order; ample buildings had been erected for the stock, manu facturers' and arts departments, and for mechanical tools. The building for grain, fruit and vegetables was not quite large enough to contain ald substantial sidewalk had been made from the city to the grounds, two miles in length. The water accommodation has not been equalled at any Exhibition; good water was conducted from the city in pipes, giving an abundance of excellent water for all pur poses. The great advantage Ottawa has over all other places is thatsteamboats could land their pas sengers on the grounas the side of the grounds. Canal, whioh passes along ne steamers running be tween the city and the grounds; they were well tween nized and arrived and left about every quarter of an hour, and visitors were able to avoid all dust. Bands of music added much to the pleasure of visitors.
In In addition to this attraction of the Exhibition, the sight of the handsome, substantial, massive Parliament Buildings was the admiration of the visitors. In our opinion, they are superior to thic British Parliament Buildings. The site on which they stand is very grand, as it is a high eminence overlooking the Ottawa steep, nearly perpendicular, but having trees growsteep, nearl
ing tide. After a person has once seen the locality and buildings, and consults the map of Canada, the selection of the locality appears to be about as good as could have been made.

The city is rapidly improving, although the lum-
ber business, which is a great support, is in a deber business, which is a great support, is in a
pressed state at present. But business must return; the present stringency and lack of confidence cannot long remain. Ottawa must become a large and important city. The line of railroad leading to it from Prescott passes through the most miserable looking part of the country we have ever travelled. The land is low and wet, and is, we understand, owned by large capitalists. It by capibe drained. This and all should be taxed high talists from to compel the owners to sell or make them productive.
The visitors that attended the Exhibition found ample accommodation in the city at reasonable rates, very different to what had been expected. The Exhibition was a good one. In stock the com petition for prizes was not near as large as at the
Exhibitions when held in the western portion of Exhibitions when held in the western portion of the pro
good.
The implement department was well represented. egetables were very good. In spring grain the
display was superior to our western exhibitions this year greater competition and good quality deserving special commendation. Fruits were also well represented. In the fine art department we noticed paintings that we thought highly merito ous. Poultry was but poorly represented.
At one of the gates a bag containing over $\$ 60$ was very strangely purloined. Many purses were found and nailed up in the building for owners to claim, or to warn others of canger.
left minus their watches.
Exhinitors atectinz sales, but probably at no Provincial Exhibition we have attended were there fewer transactions in this line than at Ottawa.
We will now make a few remarks which may not be appreciatel by all, but as we write for the farmers of Canada, we believe they will duly appreciate them, and that good will by giving them consideratio
For the satisfaction of visitors to the Provincia judging of the prize stock shonld take place at the time the largest number of visitors are on the ground, or that the prize animals should be out at stated times on Wednesday and Thursday, as herdsmen do not care to show their stock much after the prizes are awarded. It generally take some time to decide on the hard, is given than after are much fuller before the awals out of the stalls or wards. There werense or other, the ,horsemen did not show a desire to display their stock as much a this exhilition as at the western exhibitions.
serd wheat.

The Canada Company have, for a series of years given $\$ 100$ to the Association for the encourage
ment and spread of the best fall wheat. The Canada Company are to be lauded for their gener osity We would su!geit to the Association means whereby greater good may be done, or, fact, where we beleve an injury (See last month's paper The Association gave a second prize of $\overline{\$} 40$ the same varíty; also the same variety carries off
he first prize as the best white wheat. There are other varieties more hardy, more profitable, and of better quality, which cannot gain a prize, and yet they yield doumb the profl the country.
The Association gave a special prize for hybridized wheat; this might,perhaps, induce other persons to attempt hybricizin. Proper to encourage the intro duction of new varieties, with reports of their success, as some of the imported varieties have proved highly advantageous.
Many implements are exhibited, and awards have to be made. Judges would like to know which were the best, but without actial test many awards are made that do not prove correct whe the implements are put to actual work. Would not be well to engage a tield near the grounds, wise might be tested, such as the harrows, gang wise might be tested, ators, drills, planters, potato liggers, subsoilers, \&c., \&ce.? Or would it not bo well to have a special trial of such implements, in tead of the Provincial Plowing Match or in oon nection with it the coming year?
Some stock men claim that Canadian breeders hould be just as much encouraged as foreign breeders, and that as Canadians pay the prizes, they should be entitled to receive thom. Af which cannot hime, hgh fed British stook, gly fit to look at, aro breen or propagle the prizes that Canadian stock is. Perhaps it might be well to award special prizes for imported stock.
At the annual meeting of delegates, as usual the President delivered a long and good address. There were two new subjects introduced in it on which discussions might be held. One was the commendation of the Government Farm to the public; the other was for a grant of money for the American Centennial. Not one ol the above asked a question in regard the meeting was to suljects. The great wolding of the next Pro. select a pace vinion. The votes were taken for Hamilton, Kingston and Guelph ; Hamilton re eived the largest number of votes, and Guelph the next largest. Hamilton was not prepared to give the guarantee for the necessary accommoda tion. Time was allowed for doing so. St ecessary arrangement not be make such arrangehe Board of Directors can make such arrail to monta ns they please, in Guelph.
dissatisfaction and jealousy regarding the olding of the Exhibitions at different localities is reeping in. Some of the cities aro or it There less about expending so much money is some talk of making it phould be divided and some consider the cities, and others consider that if the Government would leave agriculturists entirely to themiselves and let them manage their grain and stock exhibitions, that they would be better attended to. The above subjects should be discussed in Granges and other Farmers Clubs, and we shall be pleased to publish the results of any such thens persons opinions regarding them.

## The Diseases of Live Stock.

In considering the many diseases to which the live stock of the farm are now liable, the Massachusetts Ploughman asks-Did they use to have these troubles with the horses and the cattle? And he answers in the negative. "The question," he says, "would not be asked at all if these were no new thing̊s entirely." The question has arisen in many minds, and of the diseases with which people and all domestic animals are afflicted are new. From this opinion the writer's is different. There are several diseases that have been of old time, and that, hav ing disappeared for a period, return at intervals, diseases sometimes increased in malignity, an diseases known in former years, but now disguise under other names than those they had been known by. It is true that the higher civilization of the present time has its accompaniments in greater debility. There is less power of endurance, a greater susceptibility to the effects of extreme heat and cold, and of fatigue. The native cow of England, is free from many of the diseases to which the high-bred and high-fed Durham or Ayrshire is subject. Nor has the epizootic broken down the spirit and enfeebled the body of the wild horses of the Pampas. Much reason as we have to be thankful for the blessings of increased civilization, we cannot close our eyes to the attendant evils. civilization brings not these evils as a matter of necessity. To man is given the ablity to ward them force.

This year there has been an unusual prevalence of disease among the farm strock of Europe and America. The condition of the atmosphere that has been so favorable to vegetation, has been the everse to the health of our live stock. Very heavy rains and high floods succeeded the drouth of the earlier season, and the great heat and alter nate cold have been trying to the constitution, whose vital force has been weakened by feeding and treatment not accordant with nature. In England the "foot and mouth disease" has bee very prevalent, though not fatal in proportion th the numbers affected. In one county, Dorsel single week. Throughout the whole souther kingdom disease and death are among the herds, and farmers are alarmed by their rapid increase For some years the country has never been wholly free from the disease, and it is thought the wet weather has caused it to spread over the kingdon and increased its virulence. The most active mea sures, authorized by the Government and the Leg islature, have failed to "stamp out" the disease Medical skill and the most assiduous care of stock Not only are horned stock liable to it, but shee also and pigs have been smitten by it.
The 4 ne
peared at times at several places in America though no serious outbreak has, so far, occurred it alds : "Neither do we think such an occurrence probable, on account of our more favorable and healthful olimate, our less luxuriant pastures, and our less artificial style of feeding." A writer i the Markham Economist affirms, on the contrary that the disease by which cattle in various parts of the United States have been suddenly stricken, is structive in England. He says: "The two diseases are entirely different; while both are blood diseases resulting from specific poisoning of the blood, their symptoms are widely unlike and readily distinguishable." Whether the disease in the American herds is the foot and mouth disease, as some affirm, or the less contagious disease - the hou
"splenic fever," or "splence fever," as it is said by others to be, it is well for every one interested In stock raising, as all farmers are, to be prepared or it, to be able to detect its first symptoms, and to apply the remedies. As the wetness of the sea
on has always been a cause of increased virulence of the disease in England, so is the state of the atmosphere a cause of anxiety for the health of our locks and herds. Sudden changes of temperature, with warm days and cold nights, a damp, lowering atmosphere, with dense, chilly fogs-such weather in short, as is provocative of typhoid fever in man, is apt to be a means of the introduction of these blood diseases into a neighborhood.
In the "foot and mouth disease" the feet and mouth are affected, as the name implies; there are blisters on the lips and tongue, blisters on the cor onet around the hoof, blisters on the heels and between the divided parts of the hoof. In all blood diseases there is high fever, the breathing is dificult, and the disease accompanied with stupor, sometimes with convsins, paro highly inflamed and ol the altoger depressed, so much so that it cannot walk or stand. After some days the disease may have exhausted its virulence and the animal may recover. Such seems to be the case in the great majority of cases in England at present, where few attacks are terminating fatally, but death may ensue very rapidly after the attack.
The diseases of the class in which splenic fever is included are not considered contagious, though great precaution is necessary to prevent its being communicated from the diseased animal to other by contact with the excretions, or by other means It is said that man even may be affected by suc contact. The foot and mouth disease is contagious, though there are instances in which it not plicable to every contagious disease. Of the cases referred to by the Agriculturist, "the first symptoms are a fit of shivering, followed by a cough, indisposition to move, fever and a desire to get away from other cattle." The presence of fever is easily detected by the usual symptoms-a rapil pulse, quick breathing, inflammation of the eyes, and dryness of the muzzle and of dung. The following treatment is recommended by the Agrirulurist :-"'The proper treatment is to give a gentle purgative, as 2 oz. water, at once. Then careful gursing is all that can be done. The mouth should he washed frequently with a mixture of one quart of water and one ounce of myrrh. In the absence of myrrh, one ounce of alum may be used, with an infusion of a handful of sage leaves in hot water The large blisters on the tongue and lips should be opened with a sharp-pointed knife. The feet fhould be washed with warm water and carbolic soap, and bound up in cloths wetted in a solution of two drams of chloride of zine in one pint
water. Warm bran and oatmeal slops should but given, and an infusion of linseed oil, but no solid food.'
Care must be taken that the animal affected $b$ separated from all other stock, that their stalls lo perfectly clean, and in case of death or recovery, cleansed with hot lime wash anl that no effluvia o the slightest particle that might possibly communcate the disease remain on the premises. The
and every part of the animal are poisonous. Stimulants, in case of great weakness of the tervals as needed. In such a case half an ounce carbonate ammonia may be given every secon hour.

## November on the Farm

To every season its own work; seeding and planting, haying and harvesting have each their seasons. If there be any time in which the farmer -it is not the month of November. When the gathering in of the produce of the harvest has been completed, and the harvest home enjoyed ; and when the fall seeding has been finished in good order, we can turn our thoughts to the many things that claim our attention before the winter storms are upon us. The short evenings, and the grass crisp and crackling to the touch of the foot in the late morning, warn us that there must be active reparation for the winter now nigh at hand Potatoes and mangolds are stored before Hal-
we'en, and this season the root houses are well filled generally throughout the country. Potatoes especially have been an abundant crop. The disease has in places done some injury in clay or wet soils, but on the whole, not only has there been a good crop, but it has also been well saved. The turnip crop is generally allowed to remain in the ground till this month. It grows well in the cold weather, and ly not taking them out of the ground till November they acquire a greater bulk and maturity, and conld we reasonably antiipate favorable weather for storing them, there is a profit to be made by not taking them up earlier. how no water to remain in or on the soil. When properly pitted and securely covered, there is no ther method by which roots can be kept safer or fresher than by pitting. For keeping seed pota toes we have found it especially alvantageous. The seed should not only be sound; it should also be as fresh as possible. The seed that remains in the ground makes a vigorous growth.
Manure may in this month be applied to young wheat as a top dressing. It will nourish the ten der plants and be beneficial as a mulch in protect ing them from the winter and spring frosts. Som it of service.
Add to the manure heap. This should never be neglected. The scotch farmer says: "Where weeds, if they are to be had, droppings from cattle -all should le used to increase the heap of manure; it will ald to your granary in autumn and to your heap,s of roots in the fall.
The cellar should be thoroughly cleared before any roots or vegetables be stored in it. This is a very important matter. The foul air ascending to the dwelling rooms of the house is highy injurioss
to the health of their inhabitants, and the mustito the health of their inhabitants, and fre mustiing vegetable matter will infest the roots and vegetables storel. See that windows and door are made tight, and lank the walls carefully. Timely precaution may save you mach trouble and luse. Fences should now be examined, and stakes, rails and boards replaced wherever needed. All should be put in good orter. This will aid greatly in the preservation of the matcrials of the fences; it will prevent the strang of the stall she farm and the the hassing of when attending to the full overhauling of fences, we should not neglect the farm buildings. They generally want an overhauling at this season. Let us see that the houses for our stock are in oriler, warm and dry, and at the same time well ventilater.
Where there is an earth closet it is well to store up some barrels of dry carth to use in it daring the
winter. Dry earth inay adso loe found useful in winter. Dry earth may inson he found useful in
your cellar; it is an excellent disinfectant, and caryour celar,
rots, beets and seed putatues, if there be such in
the cellar, will keep frest if if they be mixed with the cellar,
try earth.

For storing shallow trench
not lie; then $n$ the pit, the ho to the depth o posed. In spring. All the live
fully attended fully attended glected, they restore that
more difficul more diffi gained Ca
housed, and A few acres o with hay and all right to th Cleanliness, necessary Feeding ho in the season
the cold wint the cold win good afterma well in their fed daily summer. sheep.
The horse
ing; then he ing; ther he tion of his o

An English writer on sheep says : "The result of these important and valuable experiments is precisely what we should expect trom theoretical reasoning on the principles of the sub-
ject. shows the pecuniary advantages of at-
It. It shows the pecuniary advantages of at-
ading to the comforts of sheep and all other aninals, the expediency of phoviding proper shedss
fording shelter when the weather is severe, and affording shelter when the weather is sever
lessening as much as possible their exercise.

Dleomargarine Cheese
"For our own part, I think that persons should have perfect liberty to manufacture and sell oleo margarine cheese, if they think it would pay them such."-A gricultural Gazette.
whi. - Agricultural Gazette.
fully ooincide. People have a right sentence wo an article of food as well as of clothing, if it be invariably offered for sale as what it really is, provided it is in no wise deleterious to health. If the oleomargarine cheese be really as good, clean and healthful as its manufacturers represent, there is still the objection to it that it may, and in all pro bability will, be sola for to prevent this fraud, for what the selling of oleomargarine cheese for whole milk really is We are told, is true, that the one "can be as readily distinguished from the other as shoddy from long wool," but palpable as is the difference between shoddy and that which its manufacturers design it to represent, all are not sufficient adepts to distinguish it, and some are vic tims to the deceit. We are told also-"When piece of the cleomargane ches it feels cold and ween the thumb and with common cheese," and alse that " the native fat in the whole milk cheese has mingled with it about two per cent. of light flavoring oils and a somewhat smaller portion of albuminous matter-all in a state of emulsion, which together give both to butter and cheese, when skilfully made, a peculiarly delicious flavor that does not belong to eithor of their imitations; it is easy, therefore, especially when new, to distinguish between oleomargarine and whole milk heese."
But these distingnishing characteristics are insuf ficient to prevent the imposition that may be perpe-
trated on the great majority of purchasers. The first must be in most cases an entire nullity. The knowledge of the greater or less degree of "cold and clammy" is often as much from the state o the person feeling an object as from that of the ob ject felt.
That it is possible to impose by fraud the spuri ons article for the genume is proved by the fact that such imposition has occurred. Take one in-
stance : Capt. Gardiner, of McClean, N. Y., the stance: Capt. Gartiner, or Manager of the Oleomargarine Cheese Manufactur ing Company, waid to the reporter of the Utica Herald-"I know of at least four houses that sold it in New York, and one or two of them thought they had played a good trick upon some sharp buyers by selling them oleomargarine cheese at to prices for full cream cheese.
We do not now speak of the quality of the oleo margarine cheese; we refer morely to the fraud to which it is almost sure to lead and to which it ha that may be imposed on the inexperienced for that which is genuine, and we have no hesitation in say ing that it is the duty of the Government to adop such measures as will protect the community from the imposition.
If it be unclean or injurious to the health of con sumers, the manufacture of it should be prohibited If, on the contrary, it be in every way suitable for the food of man, there remains this one objection to it-the great probability that it, a spurious chese;
cle, may be sold for genuine whole milk chees
and any attempt at such imposition should be prevented. The example sot us by England in pun ishing those who sell adulterated food shoula, far as possible, be followed here. a grocer in London, E., was lately mulcted in a heavy penalt for selling coffee in which that chicory is not at
chicory. It is well known that all injurious to the health, and it has been for many years mixed with coffee, a fact not unknown to many coffee drinkers. But, inasmuch as the arti cle sold by the grocer was sold by him as coffee, whereas it was a mixture of coffee and chicory, he was sentenced to pay the full penalty. Had h sold it for what it really was he would not ha een fined.
Cheese should be branded as whole milk or oleomargarine, and any attempt to pass the spurious or genuine be punished thy the ils. The cheese should also bear the name of he factory making it, if it be factory-made. Stringent measures should be enacted and carried ut, that Canadian producers of every kind keep heir good name for honorable dealing and good and genuine articles.

Purchase of Valuable High-bred Stock for New Brunswick and Nova Scotia. The agents appointed by the Government of New Brunswick to select animals for the parpose of improving the live stock of that province, made some purchases of Whater Fir. The number of Shorthors purchased was large- 36 in number They bought also 27 Ayrshires, 6 Jerseys, 1 Hereford and 1 Holstein, and some Penheron horses part of them of the puiest Norman breed and o beautiful form. They were purchased that by the mportation of animals of the purest blood the live stock of the province might be improved They were to be sold on the most favorable terms. Agricultural societies were to have the money paid in by them placed to their 12 to the exdit given for the balance
The sale took place in Fredericton on the 17 th o last month, and all the animals were sold accord ing to the Government scheme. They had cost $\$ 21,000$, and at sale by auction realized over $\$ 15$, 000 . This sum is to be appropriated to the furthe purchase of improved stock. A highly proftable loss for the province !
The sister province, Nova Scotia, has purchase be disposed of in a similar manner for the improve ent of the Nova Scotian herds. Their agent Prof. Lawrence, has been very successful in his purchases, though he has had to pay good prices of his selections no less than five are of the fash ionable Bates' blood.

## The Epizootic

From every point we have reports of the pre alence of the Epizootic in horses. In New York hiladelphia, and, in short, in an the princtip towns in the Northern, Midale ands has prostrated handreds of horses. It he disease has prostrated hery direction, though it is thought to be of a milder form than at the time of its last visitation. We have similar reports rom Toronto, Hamilton and Montreal.
Horses that are in good condition will, as was to be expected, suffer least from its attack. A slight severe and is accompanied by swelling of the throat between the jaws and a discharge from the nostrils. The treatment that has been found most effectual ventilated stable, and covered, if the weather be cold and wet. Feed them well with good, well-
aved hay and good oats, giving them 2 bran mash nce a day. If the throat becomes much swollen, careful that they do not take cold, as a cold taken in the disease is generally fatal. Let them have no heavy work or violent exercise, but a little exercise very day at light work; this is beneficial, whereas violent exercise or over exertion would be apt to produce serious results. Keep the horse in good condition and high spirits as much as possible; use oo violent remedies but good care and nourishing, and let nature do the rest.
lasts from two to three weeks.

## Great Sale of Shorthorns at

 chester, Kentucky, U. S.The Vinewood herd, the property of Benj. B Groom \& Son, was disposed of by the proprietor herd, comprising sixty-four females and nine males, was sold in the short space of two hours and twenty minutes, and brought the large sum of $\$ 123,440$. The females were sold at an average of $\$ 1,709$; th males, $\$ 1,557$. A call three months old, the 22 n Duchess of Airdrie, was sold to J. H. Spears Son, of Talinda, III., for $\$ 7,500$. Among the suc Ont.; he bought Kirklevington Duchess for $\$ 5,150$ Ruby Duchess for $\$ 1,235$, and Cambridge Quee 5th for $\$ 500$.

## Feeding Cattle.

It may seem to our readers a very small matter to be acquainted with the principles of feeding cattle, but it is of considerable importance to know how cattle are kept in good condition economically More food than wefore stock, for they will not feed with relish on the refuse they have breathed on, except when compelled to do so by hunger; and it is very advantageous to have a regular time for feeding, for if they are not attended to at the name hour each day, a great deal of the vital energy of the stock is wasted in worrying and expectation. Warmth, light and proper ventilation are very mportant objects requiring the attention of the areful stock raiser, for stock will faten much quicker when the stable binc acid gas, the manure have free egress, and a carrent of fresh air can rush in and supply its lace, although care must be taken not to allow a current of air to blow directly on the animals. If it is desirable to fatten cattle for market, it is more thrifty to do it quickly; thus it will be cheaper to feed ten bushels of corn in two months, if the cattle are healthy, than if twice that length of time were occupied by the process. Many good armers find advantage by H. Miller \& Co., of Toronto. Some of the large breeders manufacture and use it or a similar condiment in very large quantities.
It is well to remember that it is a bad plan to starve stock at one season with the intention of making it up at another, for when an animal is poor is the time disease is most likely to set in We would advise selling fat stock early. Fat hog command a much
later in the season.

Land Speculation.
Strange, but true! Reckon it up. In 1828, a person purchased for taxes 200 acres of land in the township of Dorchester, not over 10 miles from this office. The price paid was $\$ 16$ The land was sold this year for $\$ 3,200$. This only yielded a profit of 69 per cent. on the $\$ 16$, an compound interest and taxes taking $\$ 3,184$.

## The Wertern Fair

 This is the name given to the Agricultaral Exhi bition held in London. The three western cities, London, Toronto and Hamilton, held their Exh itions in the same week-the week atlee thelry on the part of the directors of these fairs, as each wished to surpass the other and each desired to have the week after the Provincial Exhibition for heir show.The Western Fair has for a long series of years been more successful than those held in any other city; in fact, it stands the strongest rival to the Provincial Exhibition, in many ways surpassing it. For instance, in general purpose horses and in strong. Far more sales were effected among farmrss at this Exhibition. The display made by agri cultural implement manufacturers has never been equalled in Canada. There were seven steam engines in operation on the ground, all erected at the expense of the manafacturers, while at Ottawa we only noticed one, and that was for mechanical purposes, erected by the Association.

Visit from a Maryland Farmer. Mr. J. Grey, from Still Pond, Kent Co., Maryformed us he had been some weeks in Canada, having been to counties east of this. He has pur chased upwards of one hundred sheep from the fol lowing breeders:- McGregor, Fleming, Lane, Craig, Tooley and McColl. He purchased many of the prize animals, besides a fine breeding stock ewes. Leicesters.
He said in no part of Canada could he procur such good sheep as in this vicinity. Let our breed ers wake up. He said he could not find what h considered any really pure-bred Lincolns in the country; he only took the best he could find. Mr. Grey also left his order with a person in this city for a quantity of seeds, as he wished to pro cure them better than he had been- farming in his We enq the country. Peaches, wheat and clove are the prinoipal products in his locality. The peach crop is an important one, some farmers ther having a thousand acres of peaches; one man has fifteen hundred acres. He says none of their best peaches are sent to Canada.
We inquired the value of land there. He saic from two to three handred dollars per acre. We and they were offered thirty-two hundred dollars per annum for it, unde lease of five years. Mr. G. is in partnership with his brothers; they own nine hundred acres. We enquired regarding manure. He said they manured once in five years, and put on from one hundred and seventy-five to three hundred bushels
of lime per acre; the cost of lime there is only of lime per acre; the
In regard to labor, he says they used to employ the negroes, but now employ German laborer ble with them. No; they are dying off rapidly,
and are living in a most debased condition. Disease carries them off. They will run to some spree of a night, sleep in a shed or fence corner, and are
unfit for work.
They won't sleep in a bed if one is prepared for them, and they won't have them around the premises. We askeet if they did not
steal.
He said only chickens; they always would do that, but in other matters the farmers were not molested, as the kindly gave us an invitation to call
Mr. Grey which will be held within two hour's ride of their residence, and hope to give you more about peachcs,

Mr. Craig, of Elmhurst Steck. Mr. Craig, of Flmhurst Farm, Barnhamthorpe, wood Farm, London, Ont., bull 17th Dulke of $\mathbf{A v i}$ droie, heifer 12th and 13th Duchens of Spring-
wood, of the Craggs tribe, and Rose Jackson, of wood, of the Craggs tribe, and Rose Jackson, o have been $\$ 10,000$.
At Guelph Central At Guelph Central fair Mr. Joseph Kenyon, of
Colorado, made extensive purchases of prize aniCorado, made extensive purchases of prize anishearling rams and four ewe lambs from Jarmin
Riddell, Richmond Hill, and some Leicesters and Riddell, Richmond Hill, and some Leicesters and
Cotswolds from Richard Gibson and George Dong. Cotswolas
as, London.
Yesterday
Yesterday afternoon, says the Times of Sept. 8,
orty pure bred shorthorns belonging to Lord Skel inersdale, and two lelonging to the Earl of Bective,
mere sold by Mr. Thornton, in Lathom Park were sold by Mr. Thornton, in Lathom Park, for
5,600 guineas. Two cows were osld for
eas each- "Fiufy guin- $G$ wynne" to the Earl of Beceas each "Firlufy G wyyne" to the Earl of Bec-
tive, and "Waterlo Bienvenue" to Colonel Oliver, tive, and "Waterloo Bienvenue" to Colonel onive
Hampshire. There was a large gathering of
breeders from all parts of England, America, breeders from all parts of England, America,
Canada and Australia.
Prior to the pubilic sale,
Lord Skelmersdale sold the Duke of Ormskirk by Fourth Baron of Oxford-First Duchess of Oneida, Fourth Baron of, for 2,000 guineas, to Mr. Foster,
three months old Killhowe, Carlisle.

## ©0rrespondente.

Wheat.
Sir,--You ask for reports of new varietien of
grain. I procured some of the Red Fern wheat grain, year, and sowed it on a piece of low land, bot
last
unfortunately the unded unfortunately, the unusually wet weather caused
the land to be covered with water for eight days. Ine land to be covered with water for eight ays
I thought I should not have a grain, but after the water left it recovered better than any wheat
ever saw, and I threshed a fair crop when I exever saw, and I threshed a fair crop when 1 ex-
pected none.
and feel satisfied that had hatesed we wraith the the whear chance pected none.
and feel atisisied that had the grain a fair chance,
it would be better than any other spring wheat in it would be better than any
this part of the country.
I had Farrow wheat
I had Farrow what sown by the side of the
Red Fern; it did not stand the wet half as well. In fact, I do not believe any wheat I ever saw
will stand the wet as well as the Red Fero. think it the best bearded spring wheat I ever saw.
Gelfer, Oct, 1875 .
Sir,-The following extract is from a letter that correspondent at the Bruce Mines. It may in correspe who think of removing to Manitoba to urn their attention to places nearer home.
"N Near the mouth of the Spanish River field of oats- 105 acres; some of the stalks are six feet eight inches long. I sencly you a part of one
that measures one and a half inches in circumfer ence; also a head that measures fourteen inches in ength. Now, if any farmer down east can pre
duce any better, will he please send you a sample Ithink if this part of the province were better un. herstood and examinect, many more farmers wouns
settle here, where we have neither grasshoppers
or potato bugs in preference to goiug so far west nor potato bugs, in preference to going so far west.
There is plenty of land to be obtainell here and Tround Sanlt Ste. Marie for 20 cents an acre, and if that is considered too much, then it can be got free.
Yes, and that, too, within two or three miles of a great West.
300 bushels of potatoes last year off two acres of land. I have purchased a lot of land here at 20 days drew one hundrel dollars worth of wood frum
the stump into market. I also bought a llock of pine-forty ares - for eight dollars, and one tree
will more than pay for it all. Then just think of will more than pay for it all. Then just think of cents per acre, that will yield say one or one and a
half tons per acre : hany cattle as he pleases, as any quàtity of pas-
mare can ture can be had free and hay for the cutting:
"Then, as rest
"T ket in Ontario affords such good prices. I I have
paid 15 cents a pound for every pound of fresh meat 1 have purchased this summer. Potatoes were $\$ 1$ a bushel last wintor, oats 75 cents per bushel, eggs
75 cents per dozen, and everything else in propor 75 cents per dozen, ard hay was $\$ 45$ per ton at Prince
tion. I may remark
irt Arthur's Landing last spring. I may remark on
the foregoing that the hay which sold at Prince the foregoing that the hay which soll at Prince
Arthur's Landing at $\$ 45$ per ton, would probally Arthur's Landing at \$45 per ton, would probably
not have fetched more than one fourth of that price
at Sault Ste. Marie, and the prosent scale of prices
could not be long kept up when the eountry is more
fully fully occupied.'
I have lately receivod a lotter from an acquaint. ance at Sault Ste. Marie, in which he states that
"wheat is on solling at from $\$ 1$ to $\$ 1.25$ per bush.
of a good quality, suitable for . of a good quality, , utitable for seed. The growth
of wheat grown in this part is not large, there beof wheat grown in this part is not large, there be-
ing no mill until this year The farmers have
grown the grain more suitable for feed for horses grown the grain more suitable for feed for horses
and cattle. They will now turn their attention and cattle. They will now turn their attention
more to wheat, as it can be disposed of here at
their doors." more to whea,
their doors."
I may add that at the agricultural exhibition at
Sault Ste. Marie last year, the display of grain and Sault Ste. Marie last year, the display of grain and
vegetables was very fine. I have as yet seen no vegetables was very fine. Thave as yet seen no
report of the exhibition which was to have been held on the 8th inst.
ship and also a magistrate, told me early in the season that he intended calling a mearting of the
farmers to consult about the best way of enforcing farmers to consult about the best way of enforcing
the Act respecting the protection of threshing and the Act respecting the protection of threshing and
sawing machines, to prevent accidents, but the
season has passed away and nothing has been done. season has passed, away and nothing has been done.
If only one or two farmel in a township were to If only one or two farme⿻ in a township were to
refuse to employ an unproteoted machine, they
would refuse to employ an unproteoted machine, they
would not get their threshing done at all. To be
of any use, this Act must be amended so an to of any use, this Act must be amended so as to
render it imperative on manufacturers of such ma. render it imperative on manuaccurers before they
chines to have them properly protected ber
are sent out, and in default thereof render them are sent out, and in default thereof render them
liable for damages to those who may be injured liable for damagen to those who may be injured
through their neglect, just as the railway companies are at present.
A general law for preventing cattle going at
large would be very unsuitable, and is not necem-
sary. The municipal councils hang the large would be very unsuitable, and is not necen-.
sary. The municipal councils have the power to
pass by laws to prevent cattle pass by laws to present cattle going at large, but
they dare not pass such laws for fear of being
turned out of office at the next ele turned ont of office at the next election; the mem.
bers of our Legislature also dare not pass any eally beneficial general laws for fear of offending
he electors, and consequently he electors, and consequently losing their seats at is next general election. At present everything
is left the people, but experience proves that go nuch liberty is worse than useless, positively in-
urious. The practice of allowing cattlo arge on the roads is very dangerous. han once narrowly escaped a serious accident hen riting or driving on the road after nightfall,
from cattlo ying on the road, am they generally In townships which are, comparatively newly settled, some excuse may be found for this practice, as most of the settlers have not pasture
nough for their cattle, and must of necessity allow nough for their large, although even in those places Ise no reason why every settler should not be there is no want of fencing material; ; but in the old settled townships, where most
Surely the time has arrived when farmern ought ous highway robberies which have been committed ers, affords sufficient reason for their demanding
rom trin rom the Legislature the passage of an Act to emhe Police to arrest all susyicious characters, and law, if passed and vigorously enforced, would soon frighten the tramps and burglars out of the pro-
vince. But unless the farmers determinedly insist on their Parliamentary Representatives extending to them this measure of protection, they are not
likely to oltain it; and I would suggest that pub. hikely to ontain it; and would evaggest purpose of enalling farmers generally to expreas
their wishes in an unmistakal), manner. their wishes in an unmistakabe manner.
The 75,000 boxes of eheese at Montreal, which were supposel to be the produce of joint-stock wheese factories, turn out to be American skim-milk cheese, mixell with tallow, which has been imposect
on the Montreal merchants as Canadian cheese. Farmers, for their own sakes, ought to demand
from the Dominion Parliament the imposition of from the Dominion Parliament the imposition of
duties all American produce cyual in amount to the dutios they impose on ours, so that we might at least supply our own markets ourselves, and ao
prevent such trash from being imported into Canprevent such trash from being importod into Can-
ada. If our farmers could only be brought to know their own strength and act in unison, they
vould not be so trampled on by unscrupulous pol would not be so trampled on by unscrupulous poli.
ticians as they are, and as the ADvocate haa al ways been an independent farmer's paper, I trust nows expeessed.

## Inquiry.

Sir, - Are there any laws laid down anywhere, or by any authority other than the Society's by-
laws, that you know of whereby laws, that you know of, whereby judges of frui
are governed at our exhitions ? An incident are governed at our exntinster Township Show
which occurred at the Westmin relative to the judging of some fruit, set me to
thinking on this subject. In apples, for instance, thinking on this subject. In apples, for instance,
is it size, color, symmetry or flavor which has to be
taken into consideration? Say, for instance, that taken into consideration? Say, for instance, that I have a plate of splendidly formed and colored
Alexander apples; you have another plate of the Alexe variety, larger, but poorly shapen and not
colored well. A great number of people would same $\begin{aligned} & \text { colored well. A great number of people would } \\ & \text { say that the largest specimens should rank first, }\end{aligned}$ say that the largest specimens should rank first,
whilst others say the best shaped and colored should have it. In desert apples, we will say, I night show a variety unequalled for flavor, buavor, so showy as others, though wanting the find be the
Now, in melons, for instance, Havor must test, but in a great many other things size and colo
will go a long way.

## Good Seed, Making Pork, \&ic

aledonia's" contributions are always receive by the Apvocate with pleasure. To-day we give his letter as written in the old style-abbreviations absence of capitals and old-time spelling. W have ere now hal some valued correspondents whe to many of doubtless possess all the charm of novelty
Our sistem o' getting good seeds: we, $t^{\prime}$ farmer's
club, organized $f$ f $t^{\prime}$ furtherans $o^{\prime}$ wellfare, protec tion \& intelegence, after a large number ${ }^{\prime}{ }^{\prime}$ ou members being humbuged or anoid-wh ever yo meeting some plan of remeding $t$ ' annoiance, ' $t$ is, in the first place we will say turnip seed $t$ ' will stan supposed to grow; carrots \& field beets t' same o any seed $0^{\prime} t$ cind $t$ t'are wanted.
Our plan, after finding 't work well f' a number o' years, is simply to deside to $h^{\prime}$, $\&$ employ some on to raze them; any one can do it $w^{\prime}$ profit, as h knows he will sell all he razes at a reasonable price
$t^{\prime}$ price being agreel on at $t$ ' time 0 ' making $t$ con
tract always.
Making Pork.-I will also explain to you wh' w Making Pork, -I will also explain to you wh' we we
have done in t'way o' making pork; after many discushons, we desided that it was profitabel to winter hogs wher' roots were plenty \& easie razen, but
unless a farmer had land $t^{\prime}$ is exelent ${ }^{\prime}$ razing root unless a farmer had and crops, we considered 't a frootles peece ${ }^{\circ}$ husbandry; we adopted $t^{\prime}$ plan o' razing spring pigs and having
clover fields purposly $f$ ' them to be turned in as early as posibel, having rings in all their noses
three years aro, after desiding apon which w'd lee most protitabel breed, one $\sigma^{\circ}$ our members agrete purchase a thurrow bred bore wh he new he ch was not so very unprofitabel, $\mathrm{f}^{\prime}$ in three years t ' bore trew $f$ ' $t$ ' members o' $\mathrm{o}^{\prime}$ ' club 40 dollars, for other 30 dollars.
froma member o ion reting gooul secil The metholl of your clul, for getting gool secis and skill by the person employed.
your seeds fresh-a great object, as old seeds many varieties are sure to fail-of some, for it is not so with all, some doing better the second yea man the for have new emproved varicties as if you got them from a seeds man whose business it is to procure for his purchasers the best and most improved varieties to $l$ b procured. Another disalvaitage is that there is not that change, that is so very profitable, from different soil and locality. The failure of seeds t grow is not always the fault of the seeds. Often of moisture for such a length of time as to retar the growth, and in many instances destroy the vitality of the seed sown. Garten seeds shond he sown when there is some sign of coming ane oul tivatel and the seed soyn that eveninu, aul, aft
being rolled or pressed heavily, covered with boards or mulch for a of failure of seed. Your method of raising pigs is one that we knew to be practised in the old country, and very profitably. The hogs were pasture through summer in a field of clover sowed especially
the for their use. In the autumn they were turned in to the stubble field, and then put into the yard for fattening. It is the most economical method, an the hogs thrive well, and they are
their flesh healthy and lean.-ED.]

## Government Lands Open for Settlers.

 Some of our subscribers have been making enuiries of us relative to the Free Grant Lands and reply we give the following extracts from such authorities as we think are qualified by their per sonal knowledge to give information on the subjectAs to the nature of the district, one-half of the And contains for the most part as good soil as any fect rock. The land will produce excellent crop of any kind of vegetation that may be coveret
ith snow in winter, or that is spring sown or set wh snow in winter, or that is spring sown or sch greatest difficulty in growing. For the raising of greatest and cattle,
heer productive.
nore more productive.
With regard
thilies through amilies throughout the district who are satistied nd comfortable, are living on their own farms
ranging in value from $\$ 1,000$ to $\$ 4,000$. Many of these are right glad that they went to Muskoka.
Of course they have been there many years, and Of course they have been there many years, and
have "borne the burden and heat of the day." The foregoing is the bright side of the picture; but
there is a dark side as well. There are hundreds going to Muskoka who ought never to go there at all. No man ought to go unless he has a strong
constitution, is prepared to endure all sorts of harlships and privations, to work like a horse and cond
tinue at it steadily for a cuarter of a century hnue at it steadily for a quarter of a century.
he can do all that, there is hope of his making himself a comfortable home and fortune to rest up' in in his old age.-[From Rel
Bracelridge, to the Nationcal.]
vavirob
Manitoba winter is colder, somewhat louger, ant much steadier. Summer weather is about the
same in temperature in day time, lyut the night are usually cool.
We believe th known.
The
The country is well watered for a prairic coun lers on the pring upelks are not numerous. set for their water supply. In some parts latural
springs of excellent water are freyuent. Settlers have encountered scarcely any difficulty in gettin
tool water. Wells are olltainell from ten to furty yool wa
feet.
The Tfice prairie land is usually pretty level, y Land is nearly all go
The are at a a premium. timbler of the comutry is a kind
The ottonwoon called poplar. This grows to laris howerer, it is of small growth. Gak Grows in Ind spruce are found in illocalitiess, Winnipeg, white pine imported from Minnessta almost exclusively used. The prairic is excellent pasturage. The hay makes is nyt puite so nutritions as timothy, 1, 1. eaves.
But very little effort has yet leen mate to "cultio Bate grass. We have seen First-class impurted gencral purpose hirsee ithe
worth from $\$ 175$ to $\$ 250$ each; goond native hurse about $\$ 100$ each. Oxen are worth fronin $\$ 150$
$\$ 175$ per yoke; oxen are much usel. (owws sell 175 per yoke; oxen
rom $\$ 40$ to $\$ 60$ cich.
There are shecep in Manitola, and they dow exCedingly well.
Cattle revaire October to the end of April.

The soil is alluvial, varying in depth from one Har per acere, but \$160 ares is the most they cal Ell to one person. Every actual settler
to 160 acres free.-Manituba Free Press.

Milk a Scavenger of the Cow's Body.
Written for the Farmer's Advocate by $\begin{gathered}\text { Rochester, N. Y. } \\ \text { Y. }\end{gathered}$
It is a fact which must have b It is a fact which must have been noticed by all
observing farmers and their fannilies, that mellicinal agencies, taken into the stomachs of all milkiving animals, re-appear in the mikk of such ani-
nals. No fact is more notorious than that any
nedicine-cathertic, emetic or alterative--given to nedicine-cathertic, emetic or alterative-given to
nursing mother, effects the child in exactly the me way iroos the mother, the medication bethg
arried through the milk of the mother to the tomach of the child in such lare moreportions as
make the effect upon the child as active as upon o make the effect upon the child as active as upon
the mother. This inclination of the milk glands to carry of medicinal matter from the body of the milk-giving mother is not an isolated inclination
to carry foreign matter from the system. Disease to carry foreign matter from the system. Disease
is carried as readily as medicine. Any and every is carried as readity as medicine. Any and every
lisease which taints the blood, as small-pox, mea. sels, typhoid fever, scrofululit or consumption, are
transmitted through milk as readily as the effects on medicine. The excretory power of the milk glands does. not stop with carrying off medicine
and disease, it extends to all foreign matter floatand disease, it extend to all foreigu matter float
ing in the blood of the milk-producing animals. ng in the blood of the milk-procucing animals.
Nor is this power contined to the milk glands. It
belongs to other belongs to other glands as well. All the elarge
flands of the loody act as scivengers. But each flands of the body act as scavengers. But each
has a functiou of its own, to which it is more es has a function of ts own, to whichit is more es-
peciallyladapteel. The liver and the kidneys are
more active in carrying off forcigu and waste minmore active in carrying off forcigu and waste min-
eral matters, while the central glands are more aceral matters, while tranic substances. These fuuc-
tive in ejecting orgun
tions, however, run into cach other. The oil of turpentine will appear in the secretions of the kid
neys in tifteen minutes after being swallowed, and neys in firteen minntes after being swallow to, som
nitrate of potash will about as soon appear to extent in mililk as well as in urine. While the milk
glands are not very different from other larg glands are not very different from other large
glands in their general action, their functions have an interest above allo thers, in a sanitary and econ omical point of viow, because of the part
secretions take in our food and con:merce. The very large amount of liquid passing through
the udder of a cow, makes that ligquid an efficient Hux for removing everything from the blood tha not needed there. There are a great many
things which creep int, the blood in some way, whuch circulate and pass out with the nutritive elements. The essential oils of plants which give
them distinctive flavor or odor, as of turnips, onions, \&t.; the putrid mitteer in rotten potatoes, decaying grass, or any and cerery other food in a
state of decompusition, timel their way out of the tate of decompusition, timil their way out of the
ystem through milk. I have just been witnessing a striking instance of this from feeding the
whey of a cheese factory to the cows furnishing wilh for the factory. The whey in the factory
was not difficrent from that of other factories. It was one of six factories owned or controlled by one
nan, under whose personal supervision they were nan, under whose personal supervision they were
managed. The whey of all factories, an now managed is stale before it leaves the factory; incipi
nit deceay is started in it, and the cows partak-
in ing of it carry tho seels of destruction into their
nilk, and thence int the cheese. In this instance only a part of the cons supplying milk to the fac-
tory usel whe but it was enough to infect the heese. The curds acterl badly and smelled bady: ike the chese of the other tive factories managel
in just the same way, so far is manufacturing was in just the same way, so far is manufacturing was
concerner. The tuality of clleese was depressed
a dollar per hundred. The depreciated value 3rought outa strong remonstrance to feeding whey
to thice cows, and it was stopped. The effeet abated gradually, disappearing with the third day.
The cheese The cheese of the fourth day became like those
nale in the other tive factories controlled by the
 sected, carried into the boolies of the cows the
seels of putrefaction, which were ceist out again
in their milk. So with all other fermenting, stale or decaying fool. It is sure to make its inpress
upoo the milk of the cow using it, making it ob, ectionahle and unsaife to feed mich cows surth any
oond or giving them auly fond, or giving them ally water, whieh contain
anything that would nut be proper to be taken int
the human stomach.

## Aqritultural

Agriculture in France.
Paris, September 4, 1875. Although harvesting operations are nearly ter-
ainated in all France, yet the exact result cannot minated ind with accuracy till threshing operations are completed. (Ceneral opinion believes the vield
will be a mean average of about 28 million quarters for wheat. In exceptional years, double this quantity is producel. Some 24 million quarters
are reguired for home consumption, and four for are requirell for home consumption, and sown ; thus no wheat can be exported of this season's crop, but such can $t$ t
served stocks, which are large.
The importance of the vine-bug, or phylloxera
unestion, to France, may be estimated by the fact that the insect, which covers the roots like a bark, of vineyart, and threatens with ruin two millions ot acres more. For three years a Government perimenting with all suggested remedies, on an be safely said the Commission, composed of practical and scientific men, has sscovered no cure; manures in prolonging the life of the vine, withou preserving it.
thirty days at least, in autumn or winter, with running water, and the subsequent application of fertilizers - known as the Faucon plan-is the sold and so highly is it appreciated, that a project is on
foot to construct a canal, to be fed from the Khone, so as to enable several commissioner has left for the United Astates to "teuniyslvania as the "corn. yrape," and reported Pennsylvania as the "corn-grape,"
capable of resisting the phylloxera.
It is becoming the custom in France to rresent
the farmer who offers his wheat to be cut by a competition of reaping machines, with the ppese
reaper the latter being purchased for that purpose
by the local farming society. Not less noteworthy is the progess mate in the adoption of threshi nachines. For large farms, steam machines,
course, are employed ; lut in the case of small holdings, the little Swiss machine is preferred. It is portable, and so passes from neighbor to neigh-
bor. If worked by a horse, ten bushels of gran per hour may be threshed; if turned by two men,
one-half that quantity. A fresh impulse has been given to hay farming
by the employment of machines for compressing the fodier. A cubic yard
bundled, weighs about one ewt.; by pressure, and well corted and catored into the same space. It is
thans that Cherbourg sends hay to Paris, and the same facilities prevent a region from suffering from auy penury of fodder. The presses are
sizes, the portable ones leing hired out.
Reports of late have been very unfavorable to
the giant maize of Nicaragua, so much esteente for green feeding. On examination it has been
found that the seed
hall not been imported fron South America, but raised in the vicinity of Mar seilles. The seed germinated very unequally and
sickly, and was found to be black in the centre and suffering from a iry rot. Apart from any yuestion this maize, anyl hence our farmers are falling ripe back
this (ioffiart, who has become the authority on the pre winter and spring feeding, asserts that the , la has never falled where the instructions have bee tained in the plant is no obstacle to its preservition, as maize contains so per cent. of water whe
put in the trench, and revealed on analysis the out to be consumed. M. Goffart thinks that the reason why so many complain of green rye no
conserving well is owing to its being relativel Mry, containing but seventy per cent. of water,
and hence one reason, perrlaps, why a watering
with salt in solution proves so beneficial. The colder the state in which green stuft is int into
the trenches the better; thus after filling some pits in Deeember, M. Go fofart found that such as hat a layer of ice on the surface lefore being covered in,
maintained the desired low temperature to the

Belgiam is very much occupied with the means
to ingrease the breed of horses, to supply the deto increase the breed of horses, to supply the de-
ficiency caused by foreign purchases. The favorite plan is to award annual prizes to the best stallions, aged from four to nine years, and which shall have
covered thirty mares at least, in the locality Covered tirty mance, in addition, gives prizes for the best brood
Frate
mares, but which must not exported. Belgium, mares, but which must not be exported. Belgium,
being very rich, can afford to pay good prices. being very rich, can afford to pay god prices
There the rent per acre of land is 90 francs, and forits purchase, 4,000 francs. The land is fertile,
excepting the heath district of Campine, and 15 excepting the heath district of Campine, and 15
quarts of milk is the expected yield of a Dutch cow. When the quality as well as the quantity diminishes, the animal is at once fatted for the butcher. It is by means of beet pulp that Belgian
farmers are able to fatten so much stock. To destroy the terrible bug worms which attack he young hop stems, $M$. Breithaupt pours som the worms to fall dead in masses.
Canadian poplar seems to be prescribed for road de planting. Instead, ordinary poplar is recom ended for humid soils, elm for strong clays, an
aak for land unsuitable to any other tree; the dis ance between each tree to be 33 feet
It is alleged that one of the obstacles to the
rearing of horses in France is the absence of oats. n the southern parts of the country barley is the fororite grain for horses, as is practiced at presen
in Spain, Algeria, Arabia, \&c. The Romans fed hiety of oavary, calles only on balines, has bey. A A new va introduce
ris in the neighborhood of Lille, which yields over 80
bushels per acre, where formerly half that cuanbushels per acre, where formerly haltivation of this
ity was produced; hence the cult rain crop is now rapidly spreading, Oats sell a 1 to 14 francs per cwt. - Abridgeet from Corre
ondence of the New Engtand Farmer.

Large or Small Farms
There is no mistake more common or more in-
urious than that of supposing the more land a man holds the greater must be his profits, for profits
not arise from the land itself, but from the manner not arise from the land itsel, b be made unproduct-
of using it. The best siil may be
ve by bad management, and the worst may be ive bered more profitable by the opposite mayrse but withont sufficient capital no land can be propery cultivatec. At the same time, there is non certainty of a fair return for a liberal expenditure when correctly employed, than in land. In fact, andyment, it will be found that the profitsted upon the
judgment
outlay increase in more than a prourtionate de oute to its amount; thes, suppposing that twenty-
gree
five dollars be the lowest and lifty the highest sum five dollars be the lowest and fifty the highest sum
that can be employed in the common culture of the same cere of land, it is more than probable that i twenty-five dollars would return at the rate of ten per cent., the intermediate sum in the same ratio. Alluitting this to be true, and no experienced ay riculturist will doubt it, it follows that a capital on
five thousand dollars expenled in the cultivation of
fill two hundrell acres, will orily yield a profit ondre acres, it would prowuce one thousand dould be in
therefore it is evilent that this profit would
creasel by diminishing the yuantity of his land. Many a man has been ruined by a large farm, Who might have acquired a competency on ons
with half the number of acres. Most farmers ar anxious for large plautations, and many are thu reater quantity of ground than they have the Insive hope of accuiring these means by future
avings, others from the vanity of holding more and than their neighbors; hence arises a defic ency of stock, imperfect tillage and scanty crop Ind debts unsatistiol, and tinal ruin.
 with proper effect, is certain of raising the full re hrn frum the suil: and his engagements
arcordiance with his means he cojpys present case
of mind, and lays the surest founlation for futue
 into the impurudence of entering upon a larger farnu
than lis caputal will spirit necessary to insure suceess. Truly did
Judge Buel say that "large farmse are the curse uf
our country," and perhaps no one had better ex-
perience from which to draw such an expression. If a farmer has one hundred acres, it would be much better for him to put the price of another
hundred on it than to buy one hundred more, and nake the same labor produce double the crops, and not have double labor for double crops, as is usually

## A Model Farmer.

Originally Mr. Johnston's farm was a strong and the clanguand previous to his ownership it was, nd, as a former owner of the part "rold him, the
creane cream had all been taken out of it," receiving ord barn, standing amid the accumulated manure many years, told the story of its management hough the land was by no means springy-in fac
believe there was but one permanent the place, and that was away from the lake shore yet it was full of water that could not find its ecame the owner of this land when he was by no neans a rich man. He purchased in pieces, as
neans and credit permitted, until he had 300 acre since reduced to about 100). He now tells the
sing of certain careful bankers lending him money without security, on his note for eighteen months o drain this land. He does not yet see how they ared to trust him for such large sums to invest in hat was considered by most ockery" in his land, as they deridingly talked when they passed by
wagging their wise heads. "But, Mr. Johnston, wag you pay that large note by the time it became.
due?" "Long before," was the prompt reply.
due The two crops of wheat, that came in during the time, by their increased yield wiped the debt all
out, and gave him and some others confidence in
his policy-which may be summed up by saving his poliey-which may be summed up by saying,
that he first took the stagnant water from his land, nd then made all the barn-yard manure he could y feeding sheep and cattle during the winter, and
y grass, when he plowed his pastures and meadows, to raise wheat. The immense work he periormed he laid abont forty-five miles of tile drains-and his, too, on what is called uplancis, not, as has that fell upon it from the clouds-and he is recog. nized as the very father of the now so generally practised
country.
The prejulices bo if tood when we are informed that to do the work thoroughy on one of his fields it was neeessary,
or an outlet, to make a drain through a field be longing to a neighbor, and that he could not obtain onsent from the owner to do so. "Why," said ,o or three feet deep, you would take all the acisture out of it and ruin it." He had to pur hase this fiell, which he was only able to do after hole field was speedily cut into strips two rods wide, bounded by tile drains. The immense crgps minowel asy nished ly of a morning, shen ho hought he was unobserved, looking over the new ne fence upon the once wet, sogy land,
vould give him very little but aquatic plants and early worthless grasses.
riend loves to tell this story.
He had a field of forty acres that was seeded
lover, and most of it (all but three or four acres in one corner) had been drained, which he wished to put into wheat, and he did not wish to plow ntil the clover had becone fuly grown. To three pairs of strong oxen, intending to put on each plow a pan of horses and a yoke of oxen, a boy to drive and a mase along the roail, began to ask why he dey passel his summer fallow; but he bided his time, pasturing ten sheep to the acre after the
clover had become well grown, and until quite late in June. Then, with his three span of horses and direction for the oxen. For some reason there was delay in bringing the oxen, and having nothing
else on hand, he started a t taim of horsees before one of the plows, and was surprised to find that
two horses on a plow were enough, and no oxen wanted. So when the oxen came, the boys were wanted so when hack, and let them get fat to be
will to drive them bace bef. - .

was due to the draining The tenacity of the soil ally injure crops．To plow this undrained land it acing anter treatment of this field




Extracts from Our Argricultural LAwns.-After the present date, (Oct 7) it is well
to cease mowing lawns. The grass will grow a few to cease mowing lawns. The grass will grow a few affording the best and most easily procured winter
mulch for the roots of the grass, and bringing out mulch for the roots of the grass, where the lawn is kept
-Country Gentleman.

| ing the same discovery in this country. There is | intense, it will be well to cover them with a coating |
| :--- | :--- |
| ing |  | ing the same discove sheep which produces a carcase

a popplar need for a
of choice mutton along with a fleece of wool which
and of choice mutton along with a fleece of wool wny of
bears as high a price per pound as that of any of
te purer breeds, and which can be brought to the purer breeds, and which can be brought to
early maturity and made to weigh heavily at less early maturity and made to weigh heavil At the
expenditure than the pure-bred sheep. expenditure than wht a sheep of hardy constitution,
samich can we wand the rough usage of the farm better
which which can stand the rough usage of the farm better than the high-bred races. It does not pay the
farmer to keep the pure-breeds for the prodnction farmer to keep the pure-breeds for the prodnction
of mutton at 6c. to 8c. per pound. But he can of matton at 6c. to 8c. per pound. but he can
produce half-bred sheep by the use of pure-bred PROTBCT THE BIRDs.- During the year several of our correspondents have given their testimony
favor of the quail as an insect exterminator, and in favor of the quail as an insect exterminator, and raming members of sporting clubs, that get pac
all the useless game laws simply for their own ac all the useless game laws simply for their own ac-
commodation and gratification. We have just seen the statement of an Ohio farmer, who shot quail for the purpose of satisfying himself as to
the truth of the claim that birds are insect exterhe truth of the claim that birds are insect eeter-
ninators. He found in the crop of his victim one cutworm, twenty-one striped vine bugg, and ove

Close Planting of Raspberries, Currants, \& the practioo oflolose plantien
 close in a row, and them a
hedge, by keeping them hedge, by keeping them
well cut as they grow. This makes the branches
stiff so that they do not stiff so that they do not
get down in the dirt, and get down in the dirt, and
are easily passed among are easily passed among
to get the fruit, and, too,
by mulching the entire by mulching the entir surface, the same amoint
of mulch mulches a much larger number of vines.
The roots of all kinds of The roots of all kinds o than few peeple have an dea of, and simply mulch ing around the plant does not answer the purpose
The roots of a plantation
of of raspberries' and black
berriese or strawberries, or
even currants, run throug even currants, run through
the entire surface, ard hence to be properly bene
fited, the eutire surface must be mulched or kep

$\qquad$
Branding Cattle.
worked by her, and the part that mos tor, and the part that most
needs this is the extremities of theroots. Currant and | price in the market, from ewes whose mutton gooseberries must have a cool, moist place to do
well, and, if planted on dry soil, this is best sewell, and
cured by heavy mulching of the entire surface. So if fruit, and that of the best quality, is sought for, sow close, prue
our advice.-Fruit Recorder
A Tree Protbctor.-There was on exhibition at the New England Fair a model of a very simple, lastic guard for keeping It is a simple nailed to to the tree or set
no to as suspended by elastic was suspended by elastic
springs, which would give
as the body of the tree springs, which would give
as the body oo the tree
enlarged. We consider it nlarged. We consider ation of owners of roadside absurd to spend time and money in planting tree
along our streets when th first horse that comes along urely make a dinner from the bark, while the owne is, perhaps, cigar at a neigh boring
Mouthy.
Pure-Bred Sileep. The cross-bred
sheep are the mopular
breeds with those who look to the wool and mutton fo sheep (so called), or thos which go back to a long dis

price in the market, from ewes whose mutton
would not bring more than 4 cents a pound.merican Agrioulturalist.
Burying Roors.- There is one way of burying hots so tha is, the paring of layers of straw between the that is, the pracing ofh which they are covered. It 1s necessary to be more careful with potatoes than
with with any other roots, as they will not stand the
slightest frost without being injured. Potatoe
 This scene, branding cattle in Texas, presents a srik man's ine on those vast phner of many hundred,
the only means for the own
 at large over the unbounded country, to tell his
from the thousands among whioh they pasture free rom the thousands among whion the steer or heifer and uon within the enclosure, and held fast with
driven
the lasso, and hard by the iron heated in the blaz driven wo, and hard by the iron heated in the blaz-
the lasone
ing fire to impress the indellible brand on the side. Such stock as here repre-
sented by our artist as they cost little, so are they worth little money,
price is from $\$ 5.50$ to $\$ 7$ price head, taking the whole
head or brand, as it is called
When by the herdsmen. When
fattened they are sold from \$20 to $\$ 30$. When driven North, they not unfrequently omite with the the
Texas fever the cattle of
隹 the farmers, along their
route. This, as well as the low price at which they proach dreaded thy North.
Eastern breeders. -

Farmers whohave thresh-
their fall wheat and artey are highly pleased with the yield which has
been realized. Mr. Geo.
 owed on a little over three
ley
nd a half acrea of land and a which he has a return
from upwards of two hundred chiefly bred, not for their chieny in wool and mutton,
value in
but for the purpose of crossing on other races for the inches of earth, and over the earth a good thick
Ond production of a really profitable market sheep. The
pricesSouth Down, the Cotswold, and especially the Leicester, are found to be less profitable sheep for the farmer than the Oxford, the Hampshire and the Shropshire sheep. Th. These lasters, go by the sig. sheep, and name of the "rent payers." In Germany
nificant nate and France, the pure-breeds have we are now mak-
profitable than cross-breeds, and ayer of straw. Over all put six or eight inchess of
earth. Frost will go through almost any thickness of earth alone, but it will not penetrate far
below the non-conducting gtraw. The earth should below the non-conducting straw. The earth should it in place. By using straw and earth combined,
time is saved in. uncovering when the roots are wanted to be got at. If the snow is blown from
the heaps during the winter, and the cold is very
ushels, or about sixty bushels to the acre We have also heard of others who have real.
ized large returns. With such well authentiized large returns.
cated reports in possession, we have no
donbt as to the prospect of better times among doubt as to the prospect of better times among
all classes of the community. Money will all classes of the commul, trade will work up,
goon be much more plentiful)
and our commercial interests will very rapidly assume a more encouraging aspect. - Ingersoll Chronicle.

Indian Corn as a Fodder Crop in En as al Fod.
Indian corn as a celeal grain cannot be grown to advantage in england, there not being sun enough
to mature the plant. But its culture as a forage crop is found to be practicable and profitable. Ex-
periments have been made as to the possibility of periments have been made as to the possibility
preserving the corn stalks in a green state, by bresying them in trenches, the same as potatoes,
mangolds and other bulbous-rooted fodder plants. mangolds and other buibous-rooted iod
The plan is said to succeed admirably, and a recent plamber of the Mark Laune Expresss informs us
that this season many breeders and feeders will, that this season many breeders and feeders will,
in the absence of other fodder crops, through the in the absence of other fodder crops, throug the maize for the support of
through the winter months.
This will be regarded as a "new wrinkle" in continent, who have long made use of dried corn stalks for winter fodder, but, so far as we know, and succulent condition for winter feeding. Its value as an appetizer, and as a diet for milch cows, can hardly be over-estimated, and we see no reason
why the process is not just as available in this country as in England. In the hope that some of our farmers will be thereby induced to try the experiment, we append the directions given by
English agricultural journal above mentioned :
The process of storing is simple enough. A iong,
wide and deep trench is dug, from three to four wide and deep trench is dug, from three to four yards deep (this appears to us unnecessarily deep),
in a dry and healthy soil, and of a width in proportion to the depth. Taking into account the subsidence of the mass thus deposited in the crude
green state, a good bed of straw must be laid at green state, a good bed of straw must be laid at
the bottom, and on the top and sides the trench must also be covered over thickly with straw, or
boards if they are at hand, to protect the whole boards, if they are at hand, to protect the whole
mass from the rain, which, if allowed to reach the plants, would destroy their nutritive quality. There is a difference of opinion, and, of course, of should be pitted. Some prefer cutting it up into short pieces, the chief objection to that mode be ing the time and labor expended in the operation especially valuable. The process, in fact, appear to be unnecessary, as the fermentation of the stor outlay of any such extra labor. Beginning with the deposit of the seed, this
should be got through as soon as the frosts of spring are considered to be over--say the latter end
inay or later, but certainly not earlier. The maize should be sown in rows, closer or wider ac cording to the soil, not very close, the plant being will be ready in July or August, care being taken not to wait till the plant is matured, but whilst plant in the most nutritive condition. We do not
plot ind that any salt is used in the deposition of the
mass, but we certainly should be inclined to add a proportion of that most useful condiment, as both and quick feeding. The greatest care must be
taken to guard ayainst the rain; and there must be taken to guard against the rain; and there must be
provided a good straw covering, with over that a provided a good straw covering, with over that hard. Attention also must be pail to the subsidence of the whole body of the maize, which wil
refuire looking to daily, and the covering adjusten according to circumstances. In this respect the pitting of maize differs from that of potatoes and a very inconsiderable one; but maize in its most a very inconsiderable one,
Horid state contains a large proportion of moisture causing rapid and copious fermentation, which,
whilst it condenses the whole mass, renders it, whilst it condenses the whole mass, renders it, if
carefully attended to, more nutritive and paditable.
We n
We now repeat the precautions that must
employed : Ist, Sow as early as the spring frost
will employed: 1st, Sow as early as the spring tros
will allow; 2nd, If for preserving, cut whllst the
grain is in the most milky state. grain is in the most milky state; 3rd, Place in thin
trench carefully, with a good bed of straw at loottrench carefully, with a good hed of straw at h like
tom; 4th, Carefully cover with straw, as much like the thatching as possible, then with earth, beaten
down smooth and ridgeways ; 5th, Watch well while the subsidence is progressing, and when the
fermentation has sulvsidel, give a coat of earth to keep out the rain, which must be the chief care in
the business.

## storing and reeding Rutabagas.

 The following letter to the Michigan Farmer, byMr. J. R. Hendryx, contains many valuable hints on storing and feeding rutabagas to stock. We
take the liberty to bring this forward at this time for the double reason that the time now draws near at hand for planting, and, as the writer affirms,
they contribute in a large degree to the general they contribute in a large degree to the general
health and well doing of cattle or sheep during our ong winters, we think the roots ought to be more generally cultivated
to harvest, secure and feed Swedish turnips, or rutabagas, so that they may know something of
what the whole cost is, and what they have got to what the whole cost is, and what they have got tr
do with them after they have grown them-so here is my practice. season as will give time to secure them before hard frosts, as they will grow even after a moderate frost- that is to say, the bulb will grow while eve
it can extract anything from the leaves. Take sharp hoe and clip the tops, so as to leave two rows sharp hoe and clip the tops, so as to leave tworew
of the roots in one row of tops. Take a rake or four-tined fork, and throw the tops into smal
bunches; then with a common potato hook haul the two rows of rutabagas into one. This is very the two rows of rutabagas into one. This is very
quickly done. Make a bed for a pit by hoeing the
dirt out so as to leave a basin say from six to seven dirt out so as to leave a basin, say from six to seve
feet wide, and as long as you like. Haul your tur feet wide, and as long as you like. Haul your tur
nips and throw them in. Pile up as high as you
can make them lie, making at the same time a can make them lie, making at the same time a
sharp a ridge as you can. Cover well with good sharp a ridge as you can. Cover well with good
dry straw, the straw being put on as straight as
though it was a thatch. Cover this with earth no though it was a thatch. Cover this with earth no
to exceed six or seven inches. Beat down as hard and as smooth as you can by spatting the eart
with the lack of the shovel. Ventilate the top o the pit once in every eight or ten feet, by placin a round stick, say three or four inches in diameter,
endwise in the top of the pit through the straw,
Stamp the earth well around the sticks, and then Stamp the earth well around the sticks, and the
take them out carefully leaving the hole open clea to the turnips. Leave it in this condition until th
severe cold weather comes, and then cover the ven severe cold weather comes, and then cover the vent
holes with a little stable manure. If the pile is
not broken into or used during the winter not broken into or used during the winter, as soo
as the severe weather is past, take off the cover as the severe weather is past, take off the cov
and most of the earth and open the vent holes, and
thus thus leave the pit till wanted for use.
"I cut with a machine, and feed to cattle and sheep andance of sweet milk, anl the thutter is a
abweet
sweet and yellow as any fall lunter. sweet and yellow as any fall butter. My sheep
are healthy, and the ewes give an abundance of
milk for their lambs. I impute this to the use of the turnip in feeding. It is not that the turnii
furnishes so much solid food, lut it supplies sree frrnishes so much solid food, , hat it supplies gre
vegetable matter, which not only helps to digest he dry food which is fed through the winter sea
son, but which also supplics the digestive organ son, but which also supplises the digestive organs
with juices which otherwise it would drain from ther parts of the system. This is the real economy of feeding trumpse all the dry fodder which is fell to cattle and sheep, and in keeping the animals plump and their whole system full, they save much grain and hay, and, besiless, they turn the grain and hay int
profit, instead of heing usell without any Thent, instean on who has once wintered hiis sheep
Tudiciously on turnips as a part of their daily food judiciously on turnips as a part of their daily foon
more or less according to the season, that will no more or less according to the season, that wing
always grow a few again, if he is not too lazy.
"The tops can lee mixed with dry straw or cornstaks to good advantage; wit great "isceretion and
care should be usen in the mixing. The layers of care shoul
tops must
thick."
A very valuable mare, whose misfortune is to
have flat feet, used to be shod with ordinary pin shoes, but, going uneasily on pavement, it was these were tried, but, insteal of heing better, she a rim of leather under the shoe, leaving all the the lefect, and now with this
the best steppers in the
the best steppers in the country.
A new horse disease, epizootic in its character
has hroken out in syracuse, N. Y. Nearly all the
hurses met in the streets hat . hurses met in the streets have a cough, which i
(fuite severe and frequent in its spasms. They ap pear to be "stufferl up," and their breathing is sitifi cult, as if their lungs were severely congestel
These attacks come on suldenly and without any These attacks
premonition.

## The Need of Salt.

My observations are that all persons and ani mals that have come under my notice as consumin
abundance of salt, are and have been the mosit abund and robut t. I lived a strict vegetarian for a number of years, abstaining from the use of con-
diments, including salt. The only attack of fever diments, including salt. The only attack of fever
I ever had was during this vegetiarian life. In my younger days I was an invagid, and supposed could not eat and digest strong and highly seasoned
food. 1 gradually became a consumer of meats food. 1 gradualy became a consumer of meats
and strong food, requiring much salt, and now I
am as robust as any of my family. 1 now have a am as robust as any of my family. 1 now have a
family of seven children, who are all hardy and family of seven children, who are all hardy and
robust, and have all been used to strong and highly roinst, and have all been used to strong and higbly
seasoned food, using nuch salt, even so as to ex.
cite comment. My views on the use of this arti. cite comment. My views on the use of this arti-
cle have gradually given way, and every animal cle have gradually given way, and every annmal
under my care has all the salt it will consume.
some years ago I employed a number of Canadians Some years ago I employed a number of Canadians
to labor at logging and lumbering. They were the to labor at logging and lumbering. . Shey ward were
greatest consumers of salt I ever saw, and
the hardiest men ever in my employ. I also a the hardiest men ever in my employ. I also a
different times have boarded gangs of rail road nen, and found the must hardy of them were great
users of salt. I could give many individual cases, all similar.
At one ti
At one time I harl a flock of sheep which 1 tried
to keep on the no-salt principle. They did not do well, and I had to resort to regular salting. The best and most thrifty pig 1 ever raised was salted
egularly for experiment, and my pigs now have salt in their food, and any one can judge loy seeing them whether I am successful in this line. At
different times I have owned cous which were voracious feeders, and would consume great quan-
tities of salt; ; yet they never failed to be easily kept, and were always good milkers. 1 now have wo cows that are greeny eaters of salt. They are
both excellent cows, and give good milk in large oth excellent cows, and give good milk in large
guantities. I have one cow that is a dainty eater, and will scarcely ever taste salt. She is not so
good a cow for milk, auld is hard to keep, and will be the first to be sold. When 1 want to buy a cow, the first thing I want to know is if she is a dainty feeder or otherwise. If she will eat every-
hing given her, she is sure to want plenty of salt, aul 1 am sure of a guod cow
I now have six work horses, all greedy eaters
but one he is dainty and many times off his feed, and will not eat much salt. He is hard to keep, and has to be humored in feeding. Thave owned salt, and is more hardy than a year ago; his vigor inproves with his appetite. The rest are all good
feeders, nd one in particular is remarkable for
hardiness. The mangers of the others are often hardiness. The nangers of the others are often
cleaned and given to her, and she will clean all up, and keep fat and sleek, on ordinary feed. She consumes as much salt daily as any other two oo
the lot. Within sight, as 1 write, there are a number of young cattle grazing. 1 can go to this and I would, if b
them salted first. them salted first.
Thave simp'y given facts coming under my own scientificion, grounds, and it woold indeed them on singular
if mine was an isolatel cise if mine was an isolatell c:se. What say the ex
perienced and careful stock raisers who read you valuable paper". My experience and conclusion
are contrary to my former belief, forcell by the best of all proofs-thurough trial.
For fear sime
For fear some may misconstrue my opinions in
regard to the use of silt, I will say that I I do not think that people or animals can live on salt;
think in some instances too much can le used. emphatically and carnestly condemn the usulal
practice of giving salt to animals at stated periorls practice of giving salt to animals at stated periouls
it is just as unnatural for animals to receive salt in it is just as unnatura for animals to receive sat in
this way as for a person to go without until the craving would cause him to go to the salt barrel
and gorge himself. Treat them to fool and salt and gorge himself. Treat then to foon and salt
as we do ourselves, and 1 am assurecl they will do as we o ourselves, and am assurch they he will
well. LLet any one come into my barn, and her the
see at all times a. box of salt in each manger for well. Aet any one come imes a boo of salt in each, manger for
see at all
cattle or horses. I never allow these salt buxes to become emplty for a d day. For hogs I mostly mix
little salt resularly in their feed every day a little salt regularly in their feed every day. 1 hogs are not usel to this way of fe eding, and by
chance get an over-feed of salt, it will surely kill them; but with regular, every day use, in th right qua
growth.
No with chickens, only they refuire still less:
never overdose at intervals, or death will follow, The subject is an important one, and $I$ am timid to enter any discussion, but let us have facts and ex-
perience; it will hurt no one. $-D$. $R$., in $C$. Gent.

Live Stock for the Common Farmer. At the recent Agricultural Convention hel
under the auspices of the Wisconsin State Agri under the auspices livered an address on Live Stock on Wisconsin
Farms, of which the following is a brief abstract The condition of farming in the West, and in
Wisconsin and the Northwest as fully as in any other part of the country, far from satisfactory There has heen a general feeling that too exclusive atiention has been given to grain growing, and connected with this has beeck raising and feeding. For this Wisconsin and the Northwest has some disadvantages, chief of which are the facts that the winters are long and con, There are, however, some advantages. The soil is fertile and grass and other forage grows with great
rapidity. The difference in length of Wisconsin rapidity. The diference indreh miles south is
summers and those two hundre
less than is generally supposed. The climate is less than is generally supposed. The climate
healthful and the dry, racing air of winter, al. healthful and the dry, bracing air of winter, al
though cold, is better than the damp, cheerless
weather of some supposed to be more favored spots. weather of some supposed to be more favored spots.
The rearing and feeding of live stock, gives work on the farm throughout the year, and thus enables
the farme the farmer to more steadic emphy of small grain
part of his capital. The growing exclusively gives hurrying work during a part of
the year and leaves the farmer comparatively idle the year and leaves the farmer comparatively
during the remainder. Live stock use up proftably during the remainder the carser products of the farm largely
masted in exclusive grain growing. The animals
wast wasted in exclusive grain growing. The animals
can get a good living from land which would otherwaise give little or no profitable return. Keeping live stock greatly increases the quancer on to bette madopt a system of rotation of crops. Being able ato ship live stock or animal products greatly helps Western armers in meeting the great feeding anition question. Breeding, rearing and feedig arm ing. Few things will tend more to give boys a
love for farming than interesting them in breeding As nothing succeeds. like success, a stronge
argument in favor of giving increased attention to argument in avo feeling that this ought to be done
live stock than a
or arguments to show that it would be profitable or arguments to show that it would be proitabiec
is found in the abuidantly proven fact that stock raising has paid well in Wisconsin and other part
of the Northwest. of the Northwest.
But if money is to be made, the stock must be
good stock. By good stock is meant that which is
well wilapted for the purpose designed. In the good stock. By good stock is meant that which is
well anapted for the purpose designed. In the
market reports we read that one steer sold for seven market reports we read that one steer sold for seven
cents, another for three cents a pound. One is
better adanted for the designed purpose than the other. The purposes for which we desire animals are hest accomplished, when tion No natural or
from thcir "natural" condition. No from their "natural" condition. No natural or
will animal is so well fitted for meat, milk or worl production as when it has been subjected to the
intluence of man. ""ike produces like" but with influence of man. Mind
exceptions and moditications, and so by selection exception careful treatment we develope the character-
and
isties we wish, and repress those we do not desire, istics we wish, and repress those we do not desire,
bearing in mind that no animal can be perfect, and that special development in one direction is usually accompanied by lack of development in ocher ir ections,
scended through several generations is much more likely to be reprotuce ancestors
animal differs from his ancer
Thus we see why the pedigrees of ammals ar valued. These are partial histories of families an
furnish evilence, more or less conclusive, that for generations past the ancestors have or have not
had the same seneral character as has the indi vidual in question. The character of the more
immediate ancestors is more important those mor remote, so if we know certainly the character of hack, we need not be anxious alout those mot remote. Pediyrec is not all that is important. poor anima apor pedigree. If both pedigree an mndividual be grool and then
we have assurance of success.
Admitting the desiralilility of making live sto prominent in our farming system, it is a pertinent
yuestion with many farmers, "how are we to change? Our farnis have been devoted to grain
culture ; we have not the means with which to luy improyed stock, nor have we the feed, hal we
the stock. In this, as in all such matters, time
is required. A sudden change cannot be made. any other shorthorns, he was at a loss to imagine. is required. A sudden change cannot be made.
Grass should be sown as far as land can be spared
for it It is fortante then especially adapted to the growth of crops which artialy take the place of grass, and heru
the grass fails. Chief of these is corn
By careful selection and skillful management a hismer may, in a series of generations, so improve hardly be recognized as of the same breed, bnt this is a slow process and hence the average far-
mer will do wisely to avail himself of the work done by others in this direction. Most farmers
cannot afford to purchase full flocks or herds of the improved breeds. They can afford, however, comparatively few years have animals almost or fuite equal for practical purposes to those pure
bred. If in addition to this, even one or two full blool females can be secured and bred from, a great additional help will be had, and it is sul
prising how soon a good sized flock or herd of full
blood animal
mers cannot afford to pay the high priees asked ani reecived for some specimens of imported stock,
for there is no need that they should, as in any well for thelished breed, very creditable specimens can be ohtained at prices which farmers can afford to pay. In the selection of berfect ; no one aulap'ed for mind that no one is perfect, ; no oul auap ed for
all uses and climates; that the breed best for one man may be illy suited to the wants of another
It is unwise It is unwise to have so strong prejucices as to be
unableto see any merit in but one breed. Onthe othe hand, it is well to have well established convictions, for in stock raising, frequen
of breeds is always an evil.
For the professional stock-breeder it is often ad vid to but one breed of this cless. For the general farmer it is often advisable to keep horses, cattle, of each. Exclusive attention to any one class is frey advisable, and sudden changes to meet the
tuctuations in market prices are nearly always in

## Shorthorns.

their general utility.
(From the Mark Lane Express.
Mr. E. A. Fawcett, of Chilwick Hall, st. Albans, delivered a lecture at Cthew Magna, on
"Shorthorns-Their General Utility for all Purposes, in the course of which he said the origin
of shorthorns dated back some hundreds of years fenter the Tation of the "Herd Book" wonld be apparent.
The "Herdl Book" was only estallishecl in 1822 , about then, and, therefore, the early peligrees, as
they were foumd entered therein, were necessarily, to a large extent, male np of hearsay, or, at best,
upon very questionable information. Peoplereferrel up, the "HErd Book" as though it went lack to the
to the
heginuing of the breeding of shorthorns, althoungh it is well-known they hal been known as the Teess
water. ater, After showing the very doultful origin in
fore. Ane
sone of the carlicst of the notel shorthorns, the speaker said that milk, hair and beef were th
properties the early breelers looked for and conproperties the early brecters it was pedigree tha
silered necessary, Jut now
nave the value almust entirely. gave the value almust entirely. Now, just let then
see for a monent if gentlenen who gave such en






 prices realizen the Ducheso family was superiur to

If other shorthorns, he was at a loss to imagine.
If could be shown that the beef was superior,
that the milk was richer, that it made more cheeses If it could be shown that the beef was superior,
that the milk was incher, that it made more cheose
or butter, or that it made better cheese or butter, or butter, or that it made better cheese or butter,
that there was more constitution, or $i t$ was of superior quality; or, if they could show any superior
merit, he would say they were right; but they merit, he would say they were rights bere pur-
could not do so. The Duchess cows were
chased out of Stanwick Park nearly forty years he chased ont of Stan wick Park nearly forty years be-
fore the "ferd Book" existed, and yet their exact ore the "Herd Book existed, and yet die they be-
breed was said to be know. Now, did
lieve that in that neighborhood the breeding of any lieve that in that neighborhood the breeding of any
cow could be traced forty years after it had passed cow could be traced forty years after it had passed
away? But there was no record of any pure ehort-
horns existing in Stanwick Park at the time refer horns existing in Stanwick Park at the time refer-
red to He traced at considerable ength the in.
creasing Hrice oltained for what were called pedicreasing prices oltained for what were called pedio
gree stock, showing that, in many instances, the pedigree was incorrect, and that the speculation
was an uprofitable one, and then, as a practical was an unprofitable one, and then, as a practical
man, gave his view of how shorthons were to be
bret, and what use they were. The most impor bret, and what use they were. The most impor-
bant point iu his opinion in selecting a cow, was tant yoint, in his opining, in selecting a cow, was
to take care that she had, plenty of good thick-set
hair hair on her, so that, if they were eobliged to keep her out at night, she would have something was to
back to keep her warm. The next thing was to
look after the milk. He looked upon milk as the first great element in life; if they had no milk they
had no constitution; and without milk how were they going to get cheese or butter? It was the see a cow almost like a barrel, her ribs and shoul side and on that; and this was what they called as practical men, they all knew the value in a cow of good wide loins and hips. The next point was
the width of the chest-not the depth of it, but that the chest should he round lin order to give of rom between the fore-legs. He would advise number of prizes were not acquired by animals fed ns sugar, which was sure to stop the breeding, and hey would dmelt away like snow in the summer. essential if they wished to do do anythething with short
horns. Filthy dirty water would produce inflam horns. Filthy, dirty water would produce infaa,
nation of the stomach. He used a a large quantity of bran and linseed, and scarcely ever lost a cow from milk fever. He strongly ano cawing the loss and said there was positively no knowing ine lieased them. The manner in which animals were stuffed and mate up for shough it was very unreasonable, very wrong, and ought to be put a stop to. He great nuen of the cows were allowed to remain all night in the fields. That onght not to be, and he thought that every landowner ought o supply
his farmers with warm sheds in which he could put his cattle at night. It was well to give them air and exercise in the day, but by leaving them out
at night they lost a great duantity of milk. The night air was very much colder than the day, and
it took from the animals the it took from the animals the carbonic gas, extract
ing the loutter and cheese which the farmer wanted
if If they hall any doubt about it, let them try six cows under the different treatments, and see th
differunce there would he in the yield of mllk. H was not there to lay down any rule,
experience he was perfectly certain that it was serious los
all night.
sheep on a Farm.
shew, are uulder valued by the mass of landholdsini anll putting money int, the pockets of the farners. The moment one begins to talk of sheep hashandry, the listener or reaner leging to look for profity of farming. Sheep on a farm yield both1
wool and mutton. They miltiply with great
wor rapidity. They are the best of farm scavengers,
celcaning a hiell" as no other class of animals will.

 if the soil. Prowe this? There is no need of proof
to th, whee who laave kept sheef, and know their
aili, iss and prostits they yield. To prove it to those who have nut hal the experience, it is necessary hey should try the experiment on accept the tes-
timony of an experiencel shepherd.- - .

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TEIF 由ARMEE’S ADVOCATE．
Nov．， 1875.

Canadian Cattle Trade． This year about 734 head of cattle were shipped by the Dominion Line alone，and several consign
ments were forwarded by the Allan Line；and we ments were forwarde the London Steamship Line．
think one or two by to
A Toronto firm lately shipped 110 steers，averaging A Toronto firm lately shipped 110 steers，averaging
1,300 pounds each，which sold in the English mar－ 1,300 pounds each，which sold in the Engish mar
ket ate $£ 27$ per head，being a profit to the shippers，
on the drove，of over $£ 300$ ．Canada being emin on the drove，of over $£ 300$ ．Canada being emin
ently an agricultural country we have every fa
cility and and inducement，too，for rearing live stock cility，and inducement，too，for rearing live－stock
It wil be remembered that at the late sale
short－horn cattle in Scotland，by the Earl of Dun short－horn cattle in Scotland，by the Earl of Dun
more，one or two of the finest animals sold ha more，one or two of the finest animals sold had
been purchased in Canada．Not many years ago
Lord Dunmore imported two calves Leen purchased in Canada．Nonmore imported two calves from Canada，
for which he paid $\$ 12,500$ ，and the Duke of Con－ for which he paid $\$ 12,500$ ，and the Duke of Co
naught，the finest bull in the world，which $w$ naught，the nest
sold at sueh a fabulous price，is the son of one
these calves． these calves．

Cheese Fair． The Provincial Cheese Fair held at Inger oll on Dairy Association of Ontario，in connection with the Oxford Agricultural Society，was in every re－
spect a grand success，there being the largest and finest lot of cheese ever put on exhibition in Can－ ada．The judges were Messrs．Thos．Ballantyne，
M．P．P．，Stratford，J．L．Grant，Londou，Eng．， and $\dot{\text { F．W．W．Fearman，Hamilton．}}$ list Below we give a



 CLass B．－Two colored cheeses，lst prize，Jas． see，\＄10．C．－Two white cheeses，1st prize，E．
CLuAss
Hunter，\＄25；2nd，H．S．Lossee，$\$ 15 ; 3$ rid，A．Bell， Hunter
$\$ 10$
${ }^{10}$ Cuass $^{2}$ E．－Five loaf or bruckle cheeses，1st，A
 J．Ellisott，$\$ 50$ ；
CL．ass G．－Two firkins butter， 50 lbs．each， 1 st，
John Holdsworth，$\$ 40$ ；2nd，Jas．Land，$\$ 20$ ． There were upwards of 400 cheeses exhibited， the entries being from all parts of the Province
with very keen competition throughout，showing manifestly increasing interest．and development in this branch of husbandry．The fair was well at
tended，especially the second day，for notwith tended，especially the second day，for notwith
standing the unfavorable weather，thoro were sev eral thousand people present，and everything passed off in a most satisfactory manner．The distribu
tion of prizes was scattered over the provinc pretty generally；it is worthy of remark，however that the majority of them were taken by partie in this county．

Neglect of Animals in Autumn． If animals were ond owed with speech，they
wonld often remonstrate with their owners about the neglect and carelessness with which they anc
occasionally treated．And though they canno speak，yet they have a certain mute eloquence in
their look，and tell their tale with a force and point hat are often more effectual than words．Very
often the rough，shaggy，staring coat，the promin－ often rils，drooping head，woe－begone countenauce and appealing eye tella tale as plainy as ie it we sure to storm and tempestand keenly lititing winds． And yet there may be a tight，snuy barn，and stack ofry thoughtlessness the poor＇olld faithful servant
 permitted to remain in anl airy yard or barren pase
ture，with half－ tilled belly，and sniff with inpatient appetite

It is to be hoped that it may attract the atten－ fion of those farmers who seem of our October nights and an occasional wetting with the cold fall rains，are good for the health of their horses，colts，cows or calves，and
make them hardy and vigorons．But this is all
Broll mrong．It is unprofitable as well as cruel．Ani－
mals exposed to the cold until they are chilled，are stunted in their growth，and gather the seeds on
future disease．Warmth saves feed．Cold wastes feed．Stock well housed keep in better condition
on less food than those left out doors in rail pens， o stock should be kept out at nights nor on tormy days，for the abrupt change from warm
unny days to cold storms of rain and sleet is too reat a shock．Pine boards are，in a sense，excel lent fodder，and a ment． Farmers who consult the comfort of their stock
and their own profit，will see to it that their sta－ bles and sheds are put in good order，loose boards ailed on，doors and roofs made tight，good dry are comfortably sheltered before the cold winds egin to blow，and the first
fies．－A merican Agriculurist．

恐otes on the（burden and farm．
welve Rules for Successful Farming 1．Drain and irrigate．
2．Plow deep and loosen the subsoil．
3．Provide good storage for soli
cisterns for the liquid manure．
4．Choose commercial fertilizers intelligently， and do not use one in excess of another simply be cause others have used it．
5．Manure every crop manure high．
6．Cultivate
the best seed for these．
7．Cultivate every crop upon your fields，and in proper rotation．
8．Cultivate $m$
9．Feed plentifully and of tho best 10．Breed stock，and let not mere accident con 11．Support bree 12．Keep accounts．
$-\mathrm{Tr}$

## Wheat Growing Maxims．

Somebody has been at the trouble of condensing a great deal of information about wheat growing as follows，into very small compass，and somebo else har．
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ing th
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than
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Octol
8．
sown
9.
god．
go．
10． The best soil for wheat is a rich clay loam．
Wheat likes a good，deep，soft bed．
Clover turned under makes just such a bed Tlover turned under makes just such a bed． Abont
6．The drill puts in the seed better and cheaper han broad casting．
7．From the midle of September to the last of ctober is the best time for sowing．
8．If drilled，one bushel of seed
sown broadcast，two bushels．
9．One heavy rolling after sowing does much good．For flour，cut when the grain begins to har

Value of Coal Ashes．
A correspondent of the Amoriean Farm Journal
writes as follows ：－ ＂A thorough trial has convinced us that coal
ashess sattered around the roots of plum trees from five to six inches in depth，and for an exten
of about four feet in circumference，is the best re medy for the aunihilation of that destroyer of this luscious fruit，the curcolio．For many years a fine and apparently healthy plum tree of the green
gage variety has every spring gladdened us with its gaye variety has every spring gladdened us with its
countess snowy llossoms，only to bring disap
pointment．Our coal ashes from two coal stoves pointment．Our coal ashes from two coal stove
hald，during the entire winter and spring，been
had placel in a huge ping carted away during the summer．
tion of having it However，learning of the value of coal ashes fo
old apple trees，the thought struck us that ther oll apple trees，the though strack it for the young plum
would be no harm in trying
tree，as it might destroy the curculi tree，as it might destroy the curculio egys in that
vicinity．Accordingly，coal ashes as above de
scribed． scribed was placed around its roots，and the re－
mainder of the ash heap mainder of the ash heap scattered in the same
manner around four or five English cherry trees
hitherto useless，since their fruit hat bit hitherto useless，since their fruit has been so stun
that it had always been worthless．Never di trees blossom more profusely，but it was a goo
benefited them in this respect．As the small green
fruit began to form，very little of it fell to the fruit began to form，very little of it fell to the
ground，and that was unusually large，plump，per－
fectly sound and healthy，and very abundant in quantity．＂
A．A．Moore，of Vermont，has a cow eleven
years old，three－fourths Durham and one－fourth years old，three－fourths Durham and one－fourt
Ayershire，which gave 10 pounds of milk in seven Ayas，commencing June 17．From the milk six－
deen pounds of butter were made．The cow had teen pounds of butter were made．The cow had
three quarts of ground wheat per day after the second
daily． daily．
Farmers often raise poor stock which will not Farmers often raise poor stock which will not
begin to pay its cost，simply because at the start they save a dollar or two by using an inferior malo
animal．It is a well established fact that pur animal．It is a well established fact that pure
bloods transmit their characteristics to their off spring with much more certainty than natives which being generally a combination of many
strains of blood are liable to give us progeny of all strains of blood are liable to give us progeny of al
imaginable characteristics．But it does not follow that we cannot improve on our native stock by
carefully selecting the breed．Get the best is the carefully sele
true policy．

## Distances Between Trees．

 We quote from an exchange the following esti－nates of the proper distances to be left between mates of the proper distances to be left between
trees and shrubs when setting out an orchard or trees and shrubs when setting out an orchard or
garden．We think it is worth preserving for re－ ference．
Standard apples， 30 feet apart each way．In oor soils 25 feet may be enough．
Standard pears and cherries， Cherries will do at 18 feet，and the dwarf orts，Dukes and Morellos，at even 16 feet trowing Standard plums，peaches，apricots and ines， 10 to 18 feet apart each way．
Quinces， 10 to 12 feet apart each way． Quinces， 10 to 12 feet apart each way．
PYramidal apples，cherries，pears and plums， 10
to 12 feet apart each way．The greater distance is to 12 feet apare teach wat．
Dwarf apples（bushes）， 6 feet apart．
Currants，
feet apart．
Blackberries， 6 to 7 feet apart．

## Blind Staggers in Pigs．

Prof．Law，a good authority，gives the follow－ ing：When the hog is attacked，
of cold watcr over the body．Throw a purgative injection into the rectum，composed of six ounces of sulphate of soda and one or two teaspoonfuls
of spirits of turpentine in ten ounces of water of spirits of turpentine in ten ounces of water
Setons saturated with turpentine may be inserted Setons sacurain behind the ears，or the back of th
under the kbe
neck may be blistered by rubbing in the following neck may be blistered by rubbing in the following
mixture：Spirits of turpentine and liquid ammonia one ounce each，with powdered cantharides，two
drachms． one ounce
drachms．
When a cow＇s bag becomes swelled，a simple and generally effectual remedy is found in applying
fresh lard，which should be thoronghly eully rubbed in should be thoroaghy and repeat of lard，with good results．Plenty of rubbing without any application will often effect a cure．
The calf should be allowed to suck until a cure in effected，and，if a portion of the milk is drawn from the cow before he is given his rations，so he
will be obliged to do a good deal of stripping，he will help to reduce the swelling

## Extermination of the Thistle．

 The Berlin oorrespondent of Land and Waterpublished a piece of information that will be wel． come to many a farmer．＂Who ever knew，＂says
he，＂of two plants being so inimical to one an－ other as one to kill the other by a mere touch？ This，however，seems to be the case when rape
then thistles give it a turn of rape seed，and this plant thistles give it a turn of rape seed，and this plant
will altogether starve，suffocate and chill the will aitogether starve，sufocate and chide with
thistles out of existence．A trial was made
different varieties of rape seeds in square plots， different varieties of rape seeds in square plots，
when it was found that the whole ground was full of thistles，and nobody believed the rape having a fair run．But it had，and as it grew the thistle vanished，faded，turned grey and dried up as soon
as the rape leaves began to touch it．Other trials were then made in Hlower－pots and garden beds， and the thistles always had to give in，and was al－
together annihilated，whether old and fully devel－ oped，or young and tender．＇

Nov．， 18

## Encou

 The pastseason for
ward；the ward；
pearance，
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well． discouraged
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## Encouragement to Bee-Keepers.

by A. C. Attwood, ed.
The past may be ranked as having been a poor
season for bees. The spring was cold and backseason for bees. The spring was cold and back-
ward; the white clover was late in making its appearance, and then only in limited amounts; , whole summer has been exceedingly cool, and in
fact, a large portion of it may be put down as cold. fact, a large portion overy month this summer, and
We have had frost e it is not to be wondered at if bees have not done
well. But my bee-keeping friends must not be well. But my bee-keeping friend must not be
discouraged. We have had good seasons for bees, and we shall have good ones again. As we can grow potatoes in spite of all dinculties, so we min
succeed with bees if we make the care of them a
part of our business. To the care of bees a cerpart of our business. To the care of bees a cer-
tain portion of the master's time must be given. tain portion of the master's time must be given.
He cannot sit down in his cnshioned office and dive He cannot sit down in his cnseriory little detail so
orders to others, expecting ever
inseparable to bee-keeping to be properly attended to by hired help who understand nothing about it. There are certain things that he must himserf It is scarcely necessary to say that a person who con-
siders bees beneath his notice, and the care of them siders beess beneath his notice, an.
unbecoming, will never succeeed.
No book or treatise can be substituted for that real thorough knowledge of bees that is absolutely
necessary to success, and which can be obtained necessary to success, and Which can be obtaine
only through experience. Books, when they give only through experience.
expression to the experience of others, are as such
really valuable and will render assistance in con really valuable and will render assistance in con
nection with practical experience, but will not necthout it.
This summer has proved the superiority of the
Italian bees over the common black bees, for while Italian bees over the common black bees, for while
the former have in most cases given a surplus and the former have in most cases gin a most all cases
have plenty left, the elatter are in al
short of stores. Stocks that are light should be have plenty stocks that are light should be
short of stores.
broken up by putting two or three together, with broken up by putting twat are better may be fed
all the honey; others that up, if done immediately. A small hole should ber made through the centreof every when winter come passage; this is important, and he sen they can be pat
on have everything in readiness
away comfortably into winter quarters where it away comfortably into winter quarters
will not freeze, and is dry, dark and quiet.
Any questions with regard to bee-keeping will
becherfully answered by addressing-Editor of be cheerfully answered by addressing
Bee Department, FARMER's Advocate.
caultry adard.
Sulphur for Poultry.
There is no remedy and assistant so easily and cheaply obtained, its harmiess to the Ins as sulphur. It being in the svstem of animals to a small degree, there is a greater a afinity administered to the fowls by having it in a small box, so that they can help themselves, or by mixing it with their food once a week, or as
often as there are indications of vermin. Peneoten as there ars to every part of the system, all
trating, as it does, the parasi
gapes
nse.
Fowls need it more than must amimals, their feathers containing between four and five per cent. of sulphur. Their eggs also have a small quan-
tity, which is noticed by the discoloring of a silver spoon when it comes in contact with a boiled egg. Applied externally to the
to the nest itself, or mixed with the soil in the dusting box, it is equally efficacious in destroying vermin. To be used as a fumigator of buildings, it is necessary to remove the fowls, close the room
or house, mix a little saltpetre with the sulphur in an iron vessel, and apply a match to the mixture
This should be done in the morning, and the doors This should be done in the morning, and the door
and windows opened in the afternoon for a thor ough ventilation.
Lard mixed with sulphur in proper proportion and apphed as often as is necessary to torether
 $\underset{\substack{\text { foxes. } \\ \text { For } \\ \text { o }}}{ }$
For our own profit, and the comfort of the fowle
let us then use sulphur, or remedies of a like na let us then use sulphur, or remed.
ture. -W. D., in Poultry World.

## Poultry for Farmers.

 Mr. W. A. Burpee writes as follows in the Amrican Fanciers' Gazaete :1t has generally been believed by farmers, andthe belief is still prevalent, that it is ridiculous to expect to make poultry pay such enormous profits as are claimed for them; ent. profit, yet even morere than that can
be obtained by poultry breeding. It would, no doubt, be preposterous to say so, unless proof ensome of the largest and best breeders of this country show, year after year, that these present re-
ults can be obtained. What would some of our sults can be obtained. . What would some or ou as
farmers say if they were told that poultry pay
much as 500 per cent.? The French have reached to a greater knowledge of successsful poultry rais ing than any other nation, and they claightest doubt but that their large profit is no exaggerated state ment, but a reality.
In this country it
In this conntry it is known that, poultry can be
made to pay at least 200 per cent., and we dare say that even layrger results may be obtained. Now,
farmers, what do you say to this Is there not farmers, what do you say to this? Is there no
some inducement to pay greater attention to this sorterto comparatively neglected branch of rural
hithustry? We are confident that you can realize
indul industry? We are confident that you can realize
more profits from poultry raising, provided you more profits from poultry raising, provided you
attend to them properly, than from anything else
on yourf farm. on your farm.
Caponizing is mostly practised in this country in wls is that they grow one-third beyond thei otherwise natural size, fatten more easily and
rapidly on less food, and their flesh is of finer qua lity, the price they command in market being 50
per cent. higher than that of ordinary fowls of the same age. As an illustration of their superiority,
se quote from an exchange of recent date the we quote from an exchange of recent date the
tatement that " ${ }^{\text {a man in New Jersey has just }}$ sold a lot of 258 capons, averaging ten and three
fths pounds each, the heaviest pair weighin fifths pounds each, the heaviest pair weighin
twenty-eight paunds. The price obtained was 38 c
per lb., making over $\$ 4$ a head for the fowls."
$\xlongequal[\text { gaticulture. }]{\text { gher }}$
pontey - mittor.
It may possibly be striking some of our readers,
now as the season for fall plowing has set tin, hat they will plow up the orchard. To such we would
say, Stop and consider a while before doing so say, Stop and consider a while before doing so.
The past severe winter has taught us some useful lessons, and the question of keeping an orchard in
grass, or planting root crops in it, and thereby
making it arable and clean. We must confess to an entire change of opinion since visiting the
extensive orchard grounds of Mr. W. Saunders of this city. That gentleman, in connection with
other experiments, conteived the idea, some year or two ago, of trying the difference, in his orchard
of 70 acres, filled with apples, pears, plams, cherries and small fruits generally, between seeding a portion of it down to clover, and keeping a portion
of it thoroughly cultivated and clean. of it th
He divides the ground in such a manner that the
rows of trees of any variety were about equall standing in grass and on clean land, and the result
of this summer's observation on the different kind of this summer's observation on the different kind
of trees, as well as on the different varieties of of trees. as well as on the diferent varienies or
each kind of tree, has convinced him that the mulching afforded by the clover, and consequen
protection to the roots, is of immense value; in protection to the roots, is or
short, upon this vexed question, whatever other
growers opinions may be, Mr. Saunders, at auy growers opinions may be, Mr. Saunders, at any
rate, is a staunch advocate now of seeding an orchard down.
Fully Fully two-thirds of the trees, which the
past winter, or perhaps the late frosts which our readers will remember as being very se
vere, killed, stand upon the clean land; row vere, killed, stand aponears, which, among the
of some varieties of pere
clover, are only touched here and there, are, upon the arable land, none entirely.
This may not, probably, be the result of the
protection afforded during winter by the coverin protecion but we think it it to be attributed to the
of clover, bue that the trees so protected began to show
fact fact that the trees so protected began to show
signs of vitality later on in the spring than thowe
not so covered, and consequently they were in a not ser condition to withstand the late frosts than
better
their neighbors differently situated. We are awar that this is a subject upon which eminent fruit
growers vary very much indeed in their opinions,
but that the facts exist as here stated cannot be but that the facts exist as here stated cannot be
denied, and, from our knowledge of Mr. Sanndera,
we know that he will only be too pleased to show we know that he will only be too pleased to show
them to any one wishing to profit by his experience. them to any one wishing to profit by his experience.
Notiteabli,e, particularly among his pear troes, is the
ne sent out some years since by the Fruit Growers' Noticeable, particularly among his pear ruit Growers'
one sent outt some years sinee by the Frut
Association, 'clapp's Favorite." It stands preeminent as a tree on his grounds, healthy, hardy
and full of vigor, untouched to the very last va-
riety riety a year ago when the slug made havoc among
his pear tree his pear trees. Grimes' Golden apple, also distri-
buted to the members of the Fruit Growers' Asoo-
ciati ciation, bids fair, from its appearance with Mr.
Saunders, to be a useful addition to the list of good apples. The tree carries a remarkably thrifty and
healthy healthy appearance, and also shows signs of being
 the standard of that class. One other matter in
connection with raising an orchard, and one which eventually must receive greater attention at the
hands of our farmers, is acted upon by Mr. S. we mean planting belts of trees for wind breaks. we mean planting belts of trees for wind breaks, rows of silver maples and Norway spruce, the
spruce planted in a separate row in advance of the maples and opposite to the openings in the maples. We should outstep the bounds of this article al ogether were we to begin to say what can be ad
vanced on this all-important sabject-a subject which our neighbors in the Western States are al ready beginning to grapel with in a practical man
ner by holding out to purchasers of lands large in. ducements to plant at once. A case in point came within our own notice a year ago, when visiting Quebec. The country about is, to a large exten
devoid of timber, and we noticed several plantatons of many acres in extent of maples planted by
he occupants of the land for timber. he occupants of the land for timber
Should we not, while we have the material for plan-
tations existing plentifully at our doors, begin to do some such thing, in view of the time coming when
we shall be necessitated to do it.
All gardening operations not finished with last
month, should be hurried along now as sible. Beds of fall-planted bulbs shoold be oovered
with leaves
nnd some evergreen brush to prevent with. leaves and some evergreen brush to prevent
their being scattered by the wind. Hybrid, perheir being scattered by te wind hybra, per.
petual and moss roses, together with all the half hardy varieties of shrubs, can be easily protected
sufficiently by tying cedar brush about them, or, if in beds, covering them with the same material
thick enough to cause the snow to gather. Hardy herbaceous plants even are benefited by care of
this kind. The woods furnish this kind of protection naturally to the many pretty wild flowers
which gladden our eyes in the early spring. which gladden our eyes in the early spring.
Roses, before covering, should be cut back well.
The more young woodd next season the more and
fine mathe tuberoses, gladiolus, Mefiner blooms.
deira vines, \&c., \&c., must be taken up and packed
away in some dry, frost-proof place, or they
lost. Celery, if not already dug, should be got in at
oncee,and packed on sloping sheveres in the root house
in layers of light earth or sand, so the moisture in layers of light earth or
will not gather in the heart.
Strawberry beds, especially new plantations, should be covered with corn stalks or some other spring.
Manure and dig roughly the flower-beds intend ed for next springs planting, and leave everything
noat and tidy in the garden, removing all dead tops, rubbish \&\&c. Ite will be both time and expense
saved in the spring. saved in the spring.

The New Postal Law.
Letter postage will continue the same, three
cents per half ounce: the postage must be prepaid cents per half ounce: the postage must be prepaid
by stamp; if wholly unpaid, the letter will be sent to the dead letter office. Letters of more
than one rate, and on which the postage of one than one rate, and on which the postage 6 cents
rate has been paid, will be sent; and 6 ber
per extra half ounce will be charged, to be colper extra half ounce will be charged, to be col-
ected at the office of delivery. Newspapers oclected at the office of delivery. Newspapers oc-
casionally, as from friend to friend, will be one casionaly, ary four friences ; when less than one-
cent for every four
No half ounce, one-half cent will be charged. No. postage can be charged for newspapers on delivery. rafts; packages or samples of goods or merchan-
ise, when posted in Canada for any place in Canada, the rate of postage will be one cent per four ounces in weight.

## Comoden, Orchard and forest

## Mulching.

This subject, which is gaining additional promi nence every year, owes much of its unpopularity to
the abuse of its application. I have in my mind's eye an instance that illustrates the damage done eye an instance that instrates simply by employing workmen who
the system,
were uot conversant with the principles involved. were not conversant with the principles involved.
What could ever induce a rational being to cover the surface of an orchard two feet deep with straw is more than the majority of fruit growers could
possibly guess, and yet such was the fact. Of course possibly guess, and yet such was the fact. Of cours
it injured the trees, soured the scil, and made injured the trees, soured the scil, and made a cesides whole villages of mice. The advantages to be derived from the use of mulching material may
be summed up somewhat as follows:-First, th de summed up somewhat as follows:- - 1 nst, cool Seoondly, to prevent the surface from baking hard sun and the high winds. Thirdly, as a preventive from weeds. For newly planted trees all of these
are necessities; the mulch preserves the surface are necessities; the mulch preserves the surface
moist and cool, and this is precisely the condition under whieh youngg fibres are formed. It keeps the soil open and porous, another sine qua non for
the formation and growth of young roots. That it smothers out the namerous ween at protected, is
vaxiably start was the surface not elf-evident fact.
For three or four seasons past we, in the Middle
States, have suffered terribly from the severity the drouths, and had it not been for the beneficial effects of mulching, in many instances the losses
would have been frightful. Paradoxical as it may appear, water applied as we will does not answe the parpose altogether. We need something more
shade is absolutely essential, together with shade is absolutely essential, together with an
equable temperature.
Nature sets us an exampl equable temperature. Nature sets an exa not so
in this respect in the fall of snow. It it in much the mosture contained in the covering that
falls so lightly and covers up our plants so evenly falls so lightly and covers up our plants so evenly; not at all. Ihat no matter how severe the succeed ing weather may be, these are preserved coos and
unchangeable so long as the snow shall last unchangeabe sore beautiful illustration in horti culture than this lesson that nature teach us.
The material that should compose our mulch with the season when it is applied. We may rest
satisfied, however, that all green or unfermented satisfied, however, that and in their nature, and not
substances are deleterious unfrequently do more harm than good. sionally hear of instances, however, where such
have been used with good effect, as, for example, the use of turnip-tops for mulching strawberry beds; still, the principle is bad and should be discouraged. Heat and moisture engender decomposequent upon rapid decomposition is very injurious .to plant life, when placed in immediate juxtaposiable forms of fungoid structure, many of which are able forms of fungoid structure, mance ane deleterious in the effect upon the health of the higher order of
vegetation. It forms a proper hot-leed for the propagation and dissemination of millions of insects, the greater portion of which damage the roots an bark of our trees and plants. And, lastly, it im. parts a sour and satcencell thareactli-lucing of tho plant
What are the best materials to be used is not so
easily answered, although there are some things like spent tan-bark that really seems alapterl to almost all manner of plants. The healthiest pea trees I ever saw were kepp constantly mulcher
with a good thick coat of this, and each autumn a slight sprinkling of well rotted manure was scat-
tered over the surface. Tan-bark is applicalle to tered over the surface. Tan-bark is applicalle to
most kinds of growing plants, from the largest or chard trees to the strawberry beids in the garden. Straw, not too long, and pliable, cannot well be
 like, uniless very coarse, and green grass kills mor than it cures. Manure should never be used in fresh state, although such
to around large trees. Plants in pots, that is, the ordinary varieties
usually grown for this purpose, including roses, are usually grown for this purpose, inchun ord hot-bed
greatly benefited by a slight mulch of old
manure. And conifers, too, slow the effect of this fertilizing covering by an increased color and a more
vigorous growth. Briglit straw is, after all, the vigorous growth. Bright straw is, after all, the
best covering for winter vegetables, such as spin-
ach, lettuce, cabbage, \&c. Leaves are excellent
for most things, but not around young evergrens
I have seen whole beds of these entirely destroyed I have seen whole beds of these entirely destroyed
by the compact mat which leaves form by spring, and this, preventing a free circulation of air, kills
the plants in many instances. The subject may be the plants in many instance
summed up in a few words. summed up in a few words. After planting most
forms of vegetable growth are benefited by mulching; during dry seasons everything enjoys it to a
moderate extent. The number of trees and plants moderate extent. The number of trees and plant
that have been saved by the process is beyond our calculation, then why not apply the remedy more

## Sunflowers as Disinfectants.

Mir. T. Serle Jerrold, in a letter to Public fininflowers as a preventative of disease :The subject received some attention about three years ago, when a conversation between General
Sherman and the correspondent of a London paper, respecting the pestilential marshes around Rome, such places, and make them healthy; we just sow hem with sunflower seen comence points to the same conclusion. Taking up the cultivation of the unflower a few years ago, my attention was forciy drawn to the subject of its extensive cult surrounding atmosphere, by the fact that one season
the village near which I resided was visited by a evere epidemic of scarlet fever and typhus; many amily was prostrate at one time, not a hundred yards from my own house. All my family escaped
without a touch of sickness. I had at that time about sixty very large sunflower plants in my garen surroundig, My house, Mal experience of the
welve feet high. My person the sunflower as
efficien efficiency of the cultivation of the sas been fully
preventative of miasmatic fever has
borne out by other and worthier authorities, of borne out by other and worth
whom General Sherman is one.
A landowner on the banks of the Scheldt sowed
he sunflower extensively on his property near the iver, with such effect that there has not leen a
ingle case of miasmatic fever among his tenant single case of miasmatic fever among his tenants
for years, although the disease continues to prevail
in the neighborhoot. The savants of F rance, Italy and Germany believe the cultivation of the sun
lower to be effectual in removing the sources o lisear to
It may not be generally known that the sunflowe absorbs during its growth a vast quantity of inh
pure gases, it feeds largely by its leaves, absorbs pitrogen more rapiilly than any other plant, anl
will evaporate as much as a quart of water daily. I am convincel that the cultivation of this much neglected plant on a larger scale would not only be
beneficial, but remunerative. The fibre can be used for making paper; the ripe secd is most use-
ful as food for ponltry, especially during the noult. ing season; from it a fine oil-second only to olive
-is extracted; the leaves are much relished by is extracted; the leaves are much relishect

Apples at the North.
During a recent discassion in the New York
armer's Club, the opinimin was expressel that the arther north apyles can l, raised, the loetter and apple, was instancet as an illustration of this. It was enncoldeld that the best specimens of this choice
variety are grown in and about Montreal. The Lawrence, both excellent apples. It was further stated that the Famense and other varieties on grown in Pemmsylvania, New Jersey and Virginia. Such testimony shoull encourage our tarmers in
the northern sections of (ntario to plant orchards of suitalle sorts. Discouravement has often re sulter from not properly stuly ying adaptations of climate and soil. Such tenter apples as the Rhoic
Island Greening and Newton Pippin will not answe Island ireening and Newon esp It is a gooll plan
expectations in hligh latitunles.
in huying trees to leave the selection to the nur eryman, if he he competent allic thatworthy, ail vising him of the locality, soil, exposwr
he may choose the sorts accordingly.
The Ciarloners. Montli, gives briefly the follow
ing rules for selecting the difierent fruits:-"A ing rules for selecting the different fruits:-
light, dryish soil for the peach; a strong, loainy soil
for the pear; nearly the sime for the plum; a heary loam for the apple-if on limestone all the better,
and for the cherry a soil similar to that of the peach.'

## Seeds of Fruit Trees

 If the present month be ordinarily fair, it is not In in the seals bive sedis iven bolow to dion
 the spriug growh As ond plowed as deep as it can be done, and Then harrowed as fine as possible. I lay out the ground in rows fifteen inches apart, making the Ithen drop the setds evenly over four inches of the space, dropping so that they will be almost an nch apart. I gather as many coal ashes as I will ashes through. When the men have finished dropping the apple seeds, I take the fine coal ashes and then cover the ashes with about half an inch of preventing the woolly aphis from doing harm, they keep the ground in condition, so as not
fected by frost in the spring, and thereby lifting the soil. I have never found any trouble in thes
direction or from the aphis by covering with ashes direction or from the aphis sy covering with ashope,
I plant all iny seeds in the fall -plum, apple, cherry, peach, maple, ash, \&c. I Io not use coal
ashes on any other than apple or cherry seeds. An ashes on any other than apple or cherry seeds. An
application of sifted coal ashes in the spring, after application of sifted coal ashes in the spring, after
the plants are well up and have made several sets of leaves, will materially benefit apple seedlings.
Passing over the rows with the back of a rake will Passing over the rows with the back of a rake will
knock off any ashes that may have lodged on the plants. I tind fifteen inches a gord width for a
space betwen the ro xs, and also find that I gain space between the roxs, and also find that I gain
in ground, and have less space for weeds to grow. in ground, and have less space for weetis to grow.
I also find the use of a digging fork better than the plow for working the seedlings, as less harm is one to them, and the $w$ rk is more offectual. The
advantages of fall planting will be obvious to all. Naturages of faes her planting then, and the fleezing is
Nature doe the lone in order and regularity. As soon as the
dpring epens they begin to grow. There is no spring opens they begin to grow. There is no
hnrry to get the seeds in when presed with spring hrry to get the seeds in when pressed season and
wrer, no detention because of late sit
reezing, as by the old process. Nature takes reazing, as by the old process. Nature takes
charge of them in the tround, and the result is perfectly satisfactory. You can brgia
is and and keep down he weeds with but little trouble. I rememter nurseryman on a visit to this place. I gave him my mode in detail, and had the satisfactiou of
having him tell me that I would have the loss of having, seeds and labor as my rewarll. My reward Me, seels and as predicted, but, instead, I was
did not come
ffered $\cdot 100$ for the lot just as they were coming offered $\$ 100$ for the lot just as they were coming ap. I preferred carrying the experiment though,
anl was well rewarded for it. I cover plum and Cherry fully two and a half inches; peach three
inches. No trouble to get through if your soil is inches. No trouble to g.t through if ycur soil is
light. I have given you the working in detail. I light. I have given you the working in detain
would ouly add that my faith in coal ashes increases with the use of them. I have seen orange pit in the fall, sprout in the spring, and grow to
fine plant with no other soil than that afforded fine plant,s,
by the ashes.

## storing Fruit.

An expensive structure is not reyuired, for the fruit may he kept exceedingly well in a dark room
in which it will nut he exposeld to sudden changes of temperature. A cellar is a capital place, provided it is perfectly hy and dark; hut, ns nsnaly
constructel, cellars are too damp and incapable of being properly ventilatel. if a place is suilt ex
pressly for fruit, it shoult, in iny scoiss, be partly pressy y for grueneral level, with the soils banked up
leelow the
arainst the walls. (On wet soils it may be built against the walls. (On wet soils it may be built
upon the level, anl a bank of soil made aagainst the upon the level, ann a hank of soin mate avainst the
walls. The roof must be doulle, or covered with walls. The roof must be double, or coverett with
a goon thickness of thatch, which will materially assist in maintaining an equable temperature. The
fruit should le kept in perfect diarkuess ; luat, to
 provided with shutters should be fixed at intervals
in the roof, or elsewlere, acocring to the style of
and the honse. The fruit room should be in a shady position, fring in summer are materially improvell
fruits rinening
ry being placed in a cool room for a few days, and lyy being placen in a cool roon for a few days, amy in some cases the season of a partictuan of the crop,
be prulonged comsilerally y y a prortion ond
 cings, it will sulfice to say that shallow shelves on
drawers of open lattice work are preferable for laying the fruit upon.-Gardener's Mayusine.


|  |  sword and hackise young man; and who can fight with one's man was a wish eyes blinded, and onest garments heary with water, "You shall hear from mee within an hour, said he omay he had hoped to get in, unperceived, to to the house. wath Then ensued a strange and wild scene. The elderl man tossed his wide-awake into the air. He caught in coming Then, with his hands in the air, he performed a savage dance of joy, snapping his fingers, and calling out. inow hath the cheeky fallen! He hath been overcome and vanquished, utwery smote out and annihilated, My dear friend, shali we have a drink on the strength he who loves his dinner might have a tiny glass of sherry-and <br> His friend took a more sober view of the situation. <br> "The best thing you can do, Humphreys, is to compose yeur nerves with some sinigo en he gets dry clothes on-you fight that young man as oon may as well make up your mind to it. " Who's afraid of that " And who's afraid?" said he. " sand-colored bell-rope-that elongated pelican-that indefinite length of Sydenham trousers and shirt-collar? Bah! I will explode him into the primeval elements; 1 will twist him round the trunk or a tree, and poeple will mistake him in the morning for a snake that has died of a blious attack." CHAPTER $v$. |
| :---: | :---: |

In a very short space of time young, Maurien came out ayaily,
dressed in another suit of colthes. He went past us rapidy
Wit dressed in another sur saw him cross the bridge and go into
without speaking. We sem.
the . Now what is he up tow said Mr. Humphreys, a trifle more
 mid


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## 

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 and disusted
you say your p
to $A$ America ${ }^{\text {P }}$





Dur Letter Bag. Letters from the East,
Leters from the West,
Letters from the North, Letters from the North,
And from the South, Is the doggerel style I have to adopt of compiling
this month's letters from my neices and nephews. this months letters from my neices and nephews.
So numerous are they that $I$ regret not being able So numerous are they that regret not being ald to
to publish them all, but must confine myself to
three, keeping the rest-for they are too good to spoil-for another number, when I have more
space.
I have much pleasure in complying with J.H.C.'s space.
I have much pleasure in complying with J.H.C.'s
request and ofter the two following prizes:-
Ist-For the three best original puzzles (to be in by the 18th Nov.), one handsome echromo. 2ndFor the largest number of correct answers to
November and December puzzles, a beantiful chromo. These are splendid premiums, and from the keen spirit displayed on former occasions, 1 expect a invely will have to put in practice the
of obtaining them of obtaining them will have to put in prate
Advocate motto, Persecere and Succeed. Humbollt, Neb., Oct. 2, 'TF.


How many figures arehere? am an animal.








The Black Bear of America
Young realeress have yon ever studiod Natural History irs not von arr negtecing one of the
















 Bear Hesh is considered ${ }^{\text {a }}$
lainty dish ly epicures especially in the fall,
when it feels principally on herbs and nuts

 reeranns of great renown. __





111. What is the longest ann yet the shortest
thinc in the world: the swiftest, and the most
thing in the wollt: the wiftest, anne the mos

 thing, howerer small; and
all things, however reat:




\author{

## Puzzles.

 <br> 1116. - Though it is cold I w war no clothes,The frost and snow I never fear; ralue neithler shoes or hose,
But yet I wander far and nar.
}
prownting the growth of the hair, hear grease is
held in ligh repute and will sell for one dollar a
Many superstitions concerning the bear are en-
Mand tertainell by the ludians, and they go through It invarially hybernates in cold regions during scratching dirt away. At the beginning of snow storm it retires to its recluse, the snow formny a wain cover. Its lreath makes a small aper-
ture in the suow , which it is discovered and frequently calturen. As the seasons alternate the be obtainel, and greater safety enjoyed. In the spring it searches for those roots, herbs and succu-
lent Ient plants popon which it lives during that season,
along the lowlands and bordering rivers summer, when berries ripen, it letakes itself to the mosuntanns with its cubs. Being fond of honey it
makes it a route, as it is a a capital climber, and when it is in
search of nuts it loy search of nuts it lopss of the branches with much
ease. But not being particular in its choice of food it somnctimes destroys pigs, calves, sheep, \&c., and
will attack a full-grown cow when huncy will attack a full grown, cow when hungry. It
catches tish with much skill, which it is very fond of.
gatinuit gatay's gepartment. Premium for November.
From the many flattering enconiums I am constantly receiving from my readers, I feel assured of aseful information and productive of much good in the family. I do not intend to retrograde in this respect, but to make it a household instructor and ladies' companion. And, dear is In the manage ment of your homes are there not matters of common occurrence which, if published in these col umns, would; from the immense circulation of the Advocate, be a benefit to thousands of families, and thus advance the interests of all?
I purpose during the following month to give a hans sime chromo to the subscriber sending in the and found successful. Recipes to have been triet November.

## Recipes.

Mrs. W. W. has sent mea piece of cake made from the following recipe, which I would recomin the art of cooking, as her cake testifies:Dear Minnie May:-I have found some splen-
did recipes in your department of the Advocate: I send you a couple of mine, which I hope you wil dried apple cake.
Two and a half cups of flour; one cup of dried
apples; one cup of molasses; one-half cup butte appess, one cup of molasses; one-half cup butter;
one-half cup of brown sugar; one-half cup of sou
milk; one and a half teaspons milk; one and a half teaspoons soda; one egg; all the morning, and boil in molasses for about an
hour.
Jвlly саке.

One cup of flour; one cup of sugar; three egg
one teaspoon of baking powder; a little salt. Grand Rapids, Mich. Mrs. W. W. Can any of my readers !sarply " $H$ " with the
information required ? Dear Minnie:-I w Dear Minnie:-I want to know if you could
tell me how to make skeleton leaves, and the best time to pick the leaves for that purpose

Make it the cocoanut cake.
Make it the same as jelly cake, only instead of
putting jelly between the layers, beat the white putting jelly between the layers, beat the whites cupful of white sugar; spread it on the layers, and
then sprinkle cocoanut thickly over it, and the then sprinkle cocoanut thick
same on the top and sides.
Put a quart of milk on the stove, and, while it is coming to a boil, beat the whites and yolks separ-
ately; when you get the whites to a stiff froth, ately; when you get the whites to a stiff froth,
drop it into the milk-a spoonful at a time-and keep turning the egg, until suffficiently cooked; then place them on a glass dish; take the milk off
to cool; then add to it the yolks, with sugar and to cool; then add to it the yolks, with sugar and
flavoring to taste; then put this on the stove to thicken, but don't let it go to a boil or the eggs
will curdle. will curdle.
Sarnia, Sept. 15, 1875.

## rice.

To bnil rice as in India, proceed as follows:-Into
sauce-pan of two quarts of water, when boiling, a sacee-pan of two quarts of water, when boiling,
throw a tablespoonful of salt, and then put in one Let it boil twenty minutes, throw into a colander, rain, and put back into the sauce-pan, which should stand near the fire for several minutes. to dry pumpinss.
Cut the pumpkins through laterally, clean the
nside, then continue to cut in the direction a inside; then continue to cut, in the direction as
before, rings about half an inch thick. Cut off the rind and hang the rings on a pole in the sun or warm room to dry. When dried it will keep a tender, then skimmed out and prepared for pies, the same as undried pumpkins.

Another way:-Take the ripe pumpkins, pare,
cut into small pieces, stew soft, mash and strain through a colander, as if for making pies. Spread
this pulp on plates, in layers not quite an inch
thick. thick; dry it in the stove oven, which scourch it.
kept at so low a temperature as not to scorch
In about a day it will become dry and crisp The In about a day it will become dry and crisp. Th
sheets thus made can be stowed in a dry place, and sheets thus made can be stowed in a dry place, and
they are always ready for use for pies and sacuees.
The quick drying after cooking prevents any porThe quick drying after cooking prevents any por-
tion from slightly souring, as is nearly always the case when the uncooked pieces are dried, the flavor
is much better preserved, and the after cooking saved. To use, soak pieces over night in a little
milk, and they will return to a nice pulp as delicious as the fresh pumpkio.
The following method of preserving cider sweet decommended aster it comes from the press, $t$ stand until the pomace settles. When this poin
is reached, 1 put it in a clear vessel, and let it come to a boil, skimming off the skum carefully. It is corked and sealed. By this process 11 have excel ent sweet cider, not merely for the entire winter,
but for years. This method would not of course available where large quantities are made, bu
ar an ordinary family it answers admirably," drying apples.
As the time is now at hand when fall apples
nust be sared, if at all, by drying, I will give the method I am best pleased with, in hopes, if others
have better ways of doing it, they will let them be known.
To begi To begin with, I never dry withered, gnarly,
pecky apples, either for my own nse or to sell. It is too much work to prepare them for drying; and then I don't think it honest to sell such, unless at
very reduced price. Some people have an idea very revuced price. Some people have an idea dry, and that nobody will know the difference between bad and good dried apples when cooked.
But I think if such people would buy such dried Sut think if such people wou a good round price
fruit for a year or two, paying
for it, they would learn a difference between it and for it, they woo
and fair apples.
Thave a machine which pares very nicely and
saves much time. Any good machine seems to me far preferable to hand paring. I keep the cutting
and coring even with the paring, for as soon as the and coring even with the paring, for as soon as the
fruit is exposed to the atmosphere it begins to soften and lose flavor.
I prefer laying the
I prefer laying the quarters on clean boards or
racks to stringing them, but if they are at all racks to stringing them, but if they are at all
crowded they will ke sure to suffer from it. It is
better that no two quarters should touch while cotter that no two quarters should touch while
drying. drying. Let the heat-whether in a dry-house or
by your kitchen fire-be at first sufficient to very soon close the pores of the cut fruit; afterward it
should be a few degrees less; if a crust is formed should be a few degrees less; if a crust is formed
upon the quarters, the thorough drying of them is pade more difficult.
It is a great pity to dry apples (as many people
do) so very effectually that they are as hard and tasteless as chips. There 1s mure danger of this
when apples are sliced than when quartered. I last year saw some most delicious apples cut into
thin shavings and dried till they rattled in the thin shavings and dried till they rattled in the
pan like bits of shingle. When wanted for use they will require a two days' soaking at least be
fore being fit to cook, and will then be almost without flavor. If, when you put dried apples away, they canno
witt the fingers,
right treatment.
Sight treatment.
Sacks that will hold two or three quarts are
better better than larger ones for the keeping of d dired
fruit. Le $t$ th m ve tightly closed and hang where fruit. Ler mpes can gather. Either paper or cloth
no dample
sacks will do, so that they are impervious to flies sacks millers.

The Latest Fashions Notwithstanding the presence of many dark
quiet colors, modest enough for street attire, black costumes will prevail, as they have oone for years
To give som thing of nuvelty to these is the ob To give som thing of, nuelty to these is the ob
ject of the modistes, and this is accomplished by combining two or three black fabrics in one dress.
Thus, instead of using grus grain for the whole
dress, matelasse seeves, bows and flounces, and gros
velvet for the sleever
grain for the underskirt, striped and plaid velvets
-all black -are s.metim sused instead of da--all black-are sumetim s sused instead of da
mask-figured stuffts, but the latter are seen in the
most elegant dresses. There is also $a$ renewed
effort to relieve thes. effort to relieve these dresses by facings of cardi-
nal or strawberry red faille, but of course this is
estricted to house dresses. Square trains $s \in$ restricted to house dresses. Square trains sep.
arate from the lower skirt are a conngicanous fea-
ture of these dresses. The overdresses of these ture of these dresses. The overdresses of these
new black toilettes have some resemblance to ponew black toilettes have some resemblance to po-
onaises and to demi. polonaises, yet at the same ime they suggest a basque and upper skirt. The
French modistes seem to have devoted their in rench modistes seem to have devoted their in-
genuity to making undecided nondescript gar-
ents that are very pretty to look at, but which genuity to making undecided nondeseript gar-
ments that are every pretty to look at, but which
the fashion writer finds very difficult to classify he fashion writer finds very difficult to classify
and describe. One good thing to be said of these
ombination costumes is that they afford admirable plans for making over old dresses, as there is no ecessity for matching old goods with the new, ince a partly worn silk skirt may be taken from
one dress, enough velvet for sleeves from another, while only a few little new matelasse or striped
net must be bought for the over garment Flounces of bought for the over garment as at present, but are attached to the skirt alonost as closely near the bottom as at the top. To keep these from looking stiff, they must be made very
full and bunchy, and this brings box-plaiting into use again. A row of double or even triple box-
plaitugs is the tasteful border that edges plaitiugs is the tasteful border that edges the
skirts of many handsome dresses. Others have a side plaiting, not straight like that worn during the summer, but baas, turned in very deeply at top and bottom, and sewed to the skirt two inches
from the top of the plaiting, making a wide frill rom the top of the plaiting, making a wide frill
for heading, and also tacked again about three
inches from the lower edge. It is the rule now to inches from the lower edge. It is the rule now to
have but one cluster of trimming and to trim the have but one cluster
skirt alike all around.
Since jet has gone out of fashion, various netted aprons without jet have been introduced. Thus,
there are those made of soft silk braid, either col. there are thase made of soft silk braid, either col
ored or black, tied in diamond shape and richly
ringed fringed. Others, again, are of chenille, also netted
in diamond designs, and these have, in diamond designs, and these have very heavy
fringes of chenille in tassels on the edge. Theje frinqes of chenille in tassels on the edge. These
are seen on the richest French dresses, and later in the season will be imported separately.
Feather trimmings will be very much Feather trimmings will be very much worn, and
some novel designs are imported, such as a ruche some nove designs are imported, such as a ruche
of feathers for heading, below which is a fringe of
the feathers. This trimming in finely curled blot the feathers. This trimming in finely curled black
ostrich feathers for black velvet or silk cloiks ostrich feathers for black velvet or silk cloaks
costs $\$ 8.50$ a yard; in greenishblack cock' fea.
thers, it is $\$ 6.50$. Simpler than the last, and much cheaper, are narrow curled fringes of black or of
gray ostrich feathers to put under the ede gray ostrich feathers to put under the edge of sill
sacques, and give the effect of the fur linings o sacques, and give the effect of the fur linings of
which glimpses are sometimes seen in this way. These trimmings cost $\$ 1.85$ a yard.
The large circulars and long sacques lined with tremely cold weather that they are again preferred
for the for the coming winter. They are made now of
the heavy Antwerp silks that come of double
width, also width, also of Siciliene and the of ordinary
gros grains. They are lined with squirrel -ock fury gros yrains. They are lined with squirrel-lock fur,
and bordered with gray or black dor fur, or per-
haps with black Alaska sable. The prices are and bordered with gray or black fox fur, or per-
haps with black Alaska sable. The prices are
higher than those of last year, owing to the adhigher than those of last year, owing to the ad-
vanced price of the squirrel furs for linings. A
good garment of this kind now costs $\$ 100$; many good garment of thi
are more expensive
Real
Real mohair braids in loosely woven tresses, in
basket patterns and in the substantial Titan designs, are favorite trimmings for cloth and other wool stuffs. They come in varions widths, and
the wider they are the more stylish they are conthe wider they are the more stylish they are con-
sidered. There are various qualities in these braids. A stylishly woven braid of pure mohair
four inches wide costs $\$ 2.10$ a yard; prices decease our inches wide costs 82.10 a yard; prices decrease,
of course, as they get narrower.
Black silk gal. of course, as they get narrower. Black silk gal-
loons with threads of gold or of silver cost from $\$ 1$
to $\$ 4$ a $\left\{\begin{array}{l}\text { loons w } \\ \text { to } \$ 4 \\ \text { wide. } \\ \text { Fring }\end{array}\right.$ Fringes will be more worn than ever. Th yy are nille, or of crimped braids, or loops of galloon, with strings of buttons here and
all widths from two to six inches.
Dog collars of silver, gilt and of jet are shown,
to be worn close around the neck. These are very pretty with the high Cavour collars of linen.
New chatelaine belts of silver wire links and lasps fasten around the waist, and have pendants for vinaigrettes,
from $\$ 2$ to $\$ 10$.
New French jewelry of blue enamelled forgetel'ent taste. Pendants of forget-me-nots in leaves, irds, crosses and lockets cost from $\$ 3$ to $\$ 10$. necklet that is studded with enamelled forget-me-
nots. Ear-rings to match cost from $\$ 3.75$ to $\$ 6$.

Nove True to
Why do he chapa
If you
pull-back
Instea Insteal
neople put It is ren
if left for $t$
Why is Why i
cent? B
the other. What
and his
other mis A Fult
his girl,
over the The
married
to bed A Dan
self in self in
mournfu
go by.
co change,
first ste first ste
of good
This debating
in the
work to

## Wit and Humor.

True to the core ${ }^{n}-$ A good apple
Why do old maids wear mittens? To keep off
the chaps. the chapp. If you widh constitutional liberty, don't wear a
pult back dreses Insteal of puting mon
people putititin thoockings.
It it remarked that wood will last moch honger Why is a horse halt way through a gate ike a
 the other
 ather misses his kis.
 lis girn hang his hato nhen buste, which canne up
ovor the top of the seat. The quickest way to


 mournfa.
go by.
"'The
chinhe first tetep towarde wealth" eny. an ex.
 of good wealth.
This is the se
This is the season of the year when domestic
debating societies start to argue about six o'clock debating societies start to argue about six o'clock
in the morning whether it is a man's or woman's
work to light work to light the fire.
"Can you swim?" is now the somewhat startling
and embarrassing question addressed by an ard and embarrassing question addressed by an ard
ent young aristocrat to a blushing partner just in-
troduced to him for a quadrille. troduced to him for a quadrille.
"Then you won't give me a bite of your apple?",
exclaimed one urchin to another. "No, I won't." "All right, then, the next time our chimney catches
fire you shan't come into our yard and holler." A shrewd old gentleman once said to his dangh ter, be sure, my dear, you never marry a poor
man, but remember that the poorest man in the
world is one that has money and nothing else." A "cullud chap" was hugging a salmon-coloree
maid recently, when she whispered sweetly in bi ear, "I don't mind you huggin' me Jim, but, but,
for de Lords's sake, don't touch dat bile on de back ${ }^{\circ}{ }^{\prime}$ my neck.'
At the Provincial Exhibition, in Ottawa, a farme
had his watch stolen. Shortly afterwards, on put ting his hand in his overcoat pocket, he found the
watch with a card attached to it containing the watch with a card attached to it containing
follow:ng:- "Returned-not worth stealing." When a man wants a plug of tobacco, the gro
cery three-fourths of a mile off is only a step, but cery three-fourths of a mile off is only a step, but
if his wife wants a drink of cool water from a neighbor's well opposite, by some mysteriou
agency that well suddenly becomes removed mor
than half a mile away than half a mile away
Meddling with oth
Meddling with others sometimes brings us into
scrapes, and thereby one of the elders of a certain
church made "bad wors, ", scrapes, and thereby one of the elders of a certain
church, made "bad worse." A young fellow en
tered the church and took his seat, keeping his hat tered the church and took his seat, keeping his hat
on. The elder, noticing it, requested him to take
it off. His request not being complied with, he told the young man a second time. and, seeing he
still hesitated, the eller gently lifted the hat off when, to his, chargrin, out rilled a quart o
hickory nuts, and making more noise than was con
c", sistent with, decoruw. "Man,",
youth, "sse what you have done"

$$
\begin{aligned}
& \text { A SPELLINe MATch-He left the syelling bee } \\
& \text { at } 10 \text { oclock, and stopped in a saloon on his way } \\
& \text { home. Here he met several friends who "set }
\end{aligned}
$$ home. Here he met several friends who "sset 'ei.

np," divers times, and he reached home about mid up divers times, and he reached home about mid
night, with a confused brain and a very demoral
ized pair of legs. Then he swore that somebody ized pair of legs. Then he swore that somebool
had stolen the key-hole, but his wife, with a fearful scowl on
ted him.

> "Drunk!" she exclaimed. "D-r-u-n-c (hic) drunk. Thaz ezynuff." "Brute!" "Brute!"
"B-r.o-o.t (hic) Givus harder one."
"Idiot:"
"Idiot!"
-haz harder (hic) but I can spell um. I.d-"
i-d- i-d-t, idiot. Now givus a stunner (hic)."
she picked up a poker and
i-d-g i-d-g-t, idiot. Now givus a stunner hic)."
she picked up a poker and gave him a stun-
ner," and the spelling match adjourned sine die.

## thatroms of tusbandy.

## Grange Matters.

Mr. B. Payne, Overseer of No. 16 Grange, com-
mends a Grange Life Insurance Society. This mends a Grange Life Insurance Society. This
subject might be discussed in the Granges. We solicit reports of discussions on any subject that may tend to the benefit of the farmers.
We could not give you the list of Granges established in September, as they were not forwarded to us. We now give the list of those estabished siderable trading has been done by the Ingersoll and Park Hill Granges, which appears to have been satisfactory. We also understand that considerable trading has been done by some of the northern and eastern Granges
We would like to hear of more discussions on agricultural subjects, as our opinion is that from the greatest good will be done. We hope for greater unanimity among farmers, and that this Order may be the means of bringing it about.
We have received two invitations from Granges to deliver addresses, but we were attending the Exhibitions and had so much work in our ofl

## Granges Established During the Past Two Months.

228. Astrax.- Master, Thomas Evans, St. Mary's ; Sec.
James. Mclang. Fish Creek. 229. Mowrx N BBo.-Master, Thos. Eadie, Glenallan; Sec.
Geo. B. Scott, Glenalian. 230. Farmivarox. . Master, John Br iden, Farmington
Sec., John Mctaine, Farmington. 23h. CRA ARRoonk, Master, John Whitgeld, Grey; 8ec.,
John McNeil, Grey. John MeNeil, Grey.
229. WA.Lss.-M.
W. Wood, Wales.
. Kuams, Wales; sec., Hira sec., , lex. Stewame Grey.
230. Nкwry

 237. Arcingrow. - Master, Wm. Kerr, Elmvale; Sec., Joh
Rarnet, Elmvale. 238.





It is claimed that nearly one-third of the farm Irs of the United States are in connection with
this Order. If this be true, it is olvious that the organization is destined to exert a most powerfu
influence upon the condition of our country popu The
The features of the organization which are reent, to wit, co-operative purchases, etc., are, in
fact, the least important of the objects it should aim to accomplish.
Men of reflection and intelligence have long
since discovered that by the aid of association people engaged in other vocations, and residing in the large towns and cities, would be able to contro
the material, social and political interests of the country.
To count
To counteract this tendency, to encourage higher
intellectual) and social culture, and consequently to
increase the influence of the country increase the influence of the country population,
as well as to advance their material and pecuniary as well as to advance their material and pecuniary
interests, this organization of the Patrons of Husinterests, was established. Its growth has been
bandry was
more rapid than its most sanguine friends could more rapid than its most sanguine friends could
have anticipated, and nothing but mismanagement
and imprudence of its leaders can prevent its most have anticipated, and nothing sut mismanages most
and impuruence of its leaders can prevent its most
complete success. complete success.
But its members must bear in mind that as the
Patrons increase in numbers and influence, their
duties become more important and more difficult,
ind there is increased necessity and there) is increased necessity for the selection of
their very best and most able men for the dis. cheir yery best and most able men for the dis.
charg of public dnties. Unless the Patrons can rise above all selfish and personal considerations in these selections, and look alone to the general welfare, the Order, instead of the great good it pro-
mises to accomplish, will prove the reverse.-Na-
tional Live Stock Journal.

## Champion for 18\%6.

The unprecedented success of the "Champion""
Reaper in Canada has been such that the Joseph Reaper in Cananada has bucens such that the Joseph
Hall Manufacturing Company have decided to devote them elves exclusively to its manufacture, and will build 5, "000 machines for the harvest of
1776. The "Champion" Combined Reaper and 1876. The "Champion" Combined Reaper and
Mower, "Champion", Single Reaper, and "Cham. pioner, Single Mower have given universal satisfac-
tion this season. tion this season.
Two thousand
Two thousand five hundred "Champions" have
been sold in Canada, and from Prince Edward been sold in Canada, and from Prinee Edward
Island to the Western extremity of Ontario, but one report has been received, namely:- -that the
machine is giving great satisfaction in the work machine is giving great satisfaction in the work
done, and its durability and freedom from breakage are in marked contrast with all other ma chines. pany to maintain the great reputation the machine
has won. Only the choicest naterial will be used ins its construction, and by thorough divivion of
in ille
skile skitled construction, and buiding by thorough division aspeciaty, the
sighest grade of workmanship will be secured. highest grade of workmanship will be securdd.
As Springfield, Ohio, Messrs. Whiteley, Fassl \& Kelly, the "Champion Machine Company," and
Messrs. Warder, Mitchell \& Co., are already workMessrs. Warder, M1tthenll \& Co., are already, work-
ing their shops to their full capacity on next year's ing their shops to their full capacity on next year's
machines; 40,000 "Champions" will be built at Spriniffied for the coming haryest.
Although the "Champion"
Although the "Champion" is sold at a little
higher price than ordinary machines, there is not higher price than ordinary machines, there is not
the least doubt that it is the cheapest, taking into
consideration the material used in in ts construction consideration the material used in its construction
and the perfection with which the parts are put and the perfection with which the parts are put
together. Durability and freedom from vexatious
der together. Durabiity and fredom from vexacou
delays cused by breakages in the field, are two of
the strong points of the "Champion," and should he strong points of the "Champion," and shoul
not be lost sight of by all intending purchaser not be lost sight of by all intending purchasers.
The changes in the Hall Works necessary to make
the building of the "Champion" he cuinging of the "Champion" a specialty, are
now being made, and in a few days work will be now being made, and in year's machinines.
begun in earnest on next ye
The " Champion" in the United States The "Champion" in the United States has dis-
tanced all its competitors, and there is no doubt tanced all its competitors, and there is no doub
but, when built as it will be built by the Hal Company, it is destined to take the same high po
sition here.-Ontario Reformer.

Editor's Table
R. Clarke \& Co.., publishers, of Cincinnati, have
laid on our table ". The Law of Horses,"
a
very useful book, containing 400 pages, bound in leather. It is the most complete work of the kind we have
It contains the law of barrain and sale seen. It contains the law of bargain and sale,
rule as to unsoundness, responsibility of Livery ale as to unsoundness, responsibis' negligence,
auction and sale, stahles, veterinaries ne
rules of road, responsibility of owners caused by uction and sale, stahies, veterinares eased by
rules of road, ressonaibility of owners caused
vicious or unruly horses, \&c. To persons dealing vicious or unruly horses, \&c. To persons dealing
in or using horses it highly valuable. We are not aware if the laws are applicable to both coun-
tries; we presume there is but slipht difference, if tries; we presume there is but slight difference, if
any. At any rate, it is a very useful book, and an any. At any rate, it is a v
acquisition to any library.

Little Giaut Thresher
Sharman \& Foster, of Stratford, are still manufacturing this great labor-saving and economical
thresher and separator, a machine which has for the last eight or nine years kept constantly gaining in favor with the farming community. We con-
sider it is the best small thresher now made, if for a farmer's own use, or even a few joined in cor-
pany. A wood-sawing machine can be driven A wood-sawing machine can be driven
with the same power, and adds but little to the with the same power, and adds but little to the
expense. They have lately made very decided
improvements on it.- - Strafford

## The Ontario Veterinary College.

In our advertising columns will be found the ad-
vertisement of the above College. It has now vertisement of the above College. It has now
ben established thirteen years, and affords to any young man desiruss of studying for the profession,
every advantage. The professors connected with it are unequalled in the provinoe for ability and
succeass in teaching. We can cordially recommend

## Toronto Exhibition.

This was the last Exhibition we paid a visit to. The competition for prizes in stock was not as large as at some of the other Exhibitions. of Woodbridge, made about as much noise as any one, as he had his steam thresher running; this wa
the principal steam power in operation prepal The floral hall, or the part that ought to be devoted to it, as the very pretty jet of water in the charm of the flowers, was very handsomely crvamented with rustic work, statuary and castings of animsls. W. Rennie was a great exhibitor in this line of goods. There was a great competition in root culture; two of the greatest prize takers are striving for the victory of a special prize, at a special show, at which it is expected larger roots are to be exhibited than at any exhibition held this year. We believe some of the vegetables shown
vincial.
Another feature of this exhibition was the pre sence of fireworks in the evening. The art gallery, floral hall, \&c., were illuminated with Chinese lan the occasion. The display of fireworis was highly pleasing.
The attendance in the evening was far more than double that to be seen on the ground at any other time. This required a special ${ }^{\text {ticket }}$, and helped to add to the receipts of the Association. We thought this novel feature might be added with ad vantage to some other city exhibitions, but there is a difference of opinion in regard to it. Farmers, what say you; shall we vote to add fireworks or not? Let ho yo
Some of the Torontonians consider it was wrong for other cities to hold their exhibitions the same Week. We kibition should let the day appointed be known early, to avoid collision. Space prevents the publication of all the prize lists, but many of the prize takers will be heard of hereafter.

## Hamilton Exhiloition.

Having already written on the Guelph, Provin cial and London Exhibitions, we next visited Hamiton. Each exhibition is a repetition of the spay of the bountiful gifts of Providence to our pleted and. The cornucopia was never more re highly meritorious to exbibitors. The labor and pains taken by the directors of each of these self supporting institutions deserves the thanks of the inhabitants, as their rewards are pecuniarily nothing. Still these exhibitions do gool, and we hope to see them continue improving.
Our opinion is that each exhibition excels in some particular line. Hamilton appeared to excel in the display of Southdown sheep, marble works and pressed iron ware. The fruit department was highly gratifying, and in other department the display was generally goon?.
Citizens and the county otticials of this locality, a a law suit between them may have tended to injure their exhibition.

The Comis: short Hofs cientrathes Tonorto.-S. F. Lockridye, (ircencastle, Ind. f Shorthorns, has issuiued a circular calling, atten tion to the forthcoming Convention of Short-horn Breeders, beginning on Wednesday. Wecemhicr 1st 1875, and continuing two days. The lay follow ing the Convention, Mr. J. R. Craig's sale of Nhom t horns, of Burnhamthorpe, will take place at
Toronto.

We have had some enquiries from subscribers as the insect that is causing the apparent blight in for our examination some of the twigs affected. We append an article on the subject from the $N . Y_{F}$ Tribune, a good authority on'entomological sub Tribun
jects.
the apple-twig borer
I inclose a specimen of a bug that does grea
damage to the apple tree in this locality; it invari ably attacks as shown in the twiogsent. Which of
the many pests is it? it is about the only one that the many pests is it? lt is about the only one that
attecks the apple here.-A. CummiNas, Page Co. Neb.
It is the Apple-twig borer (Bostrichus bicandatus, Say), a small, cylindrical brown beetle, whose de of the core well known in the $W$ est. It is one rious injuries in the perfect state, its larvel history indeed, being as yet unknown, although it is supthe stems of grape-vine. Both male and female beetles bore the twigs of fruit-trees, evidently for purposes of food and protection, and may always be found in the holes, head downwards, during the winter and spring months. Besides the apple they occur in grape, pear and peach stems, but hav never yet been found in those of the crab apple The only way to counteract their injuries is $t$ prune the infested twigs whenever found, taking
great care to burn them with their contents Downing refers to this insect as the cause of twis blight; but, though it often causes the twiog to die it has no connection with the real spur or twig blight of the apple, which, like fire-hlight in the pear, is of fungus origin.

Perth, Oct., 11 th, 1875.
W. Wr.LD, Esq.,- -1 wish you to inform me if
you have, or knowr of any means of preventing ants from destroying fruit trees. My apple trees
are very bad with them, and I have used ashes lime and soap-suds with non effect af all. Your information on the subject will oblige
francis lambert,
Tennyson P. O.,
Co. Drammon
(Though we have freriuently seen ants on our
fruit trees, we never knew them to do them any injuxy; but fruit trees seem to be more subject to
attacks from enemies- insects and others-than ever. We have applied to a gentleman well versed in entomolngy on the subject and he could not
give any information nore than we hlready had.
Vill any of our sulscribers write to us on the Will ay
sulject?

Where to Manure
At a recent meeting of the Farmers' (luh, at at
London, Prof. Yoelcker said, in reply to some statements mate by Alderman Mechi, "Don't mane-
ure subsoil of any the top ssil, mil keep manuring elements as near as you possibly can to the surface, so that the
young plant may derive immediate advantages young plant may derive immediate advantages
from the fool prepared for it. This, we t:ke it, is the true doctrine eery forcibly eppressed, and
we leclicve it accords with the experience of the most care
England.

Long Corn Roots-Deep Plowing. 1huring the drought which ? revailed in Ohio the
past sunmer, a gentleman, having occasion, says
a correspondent of the (inuntry) Gentleman, to dig a correspondent of the Cinuntry Gentleman, to dig
for woodchucks in his corn field, found roots at the depth of seven feet. Which appeared to resemble
corn roots. On following them carefully, they corlu roots. On following them carefully, they
were ionad to terminate in the corrn-stalks. How
much deeper they went lie did not lnow. much deeper they went hie did not know, as the
lower cul was not reached. The corn crop was a good one, although the surface soil for many inches in depth was, to all appearances, perfectly dry.
The gentleman is a firm believer in deep plowing The gentleman is a firm believer in deep plowing
and thorough tillage. and thurough tillage.
We hear that Mr. (Groom, of Kentucky, cle
$\$ 60,000$ from his recent sale of Shorthorns.
$\mathbb{C}$ ommercial.

## The Excess in the Supply of Wheat in Great Britain.



Prices still rule
and dinore frmnes








${ }^{4}$ prer quart
Late Sales of Thoronghbred Cattle in Great Britain


