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This issue has been delayed to give you fore
complete accounts of the Exhibitions, and thive you the Provincial Prize List to bind with this volume.

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Exhibition of the Royal Agricuftural Society of England.
This Society holds its Exhibitions at different places each year. This year it was held at Bristol 15th, both days included. We do - nbt see much advantage in continuing it till Monday of the second week, as it adds mnch to the expense of exhibitors. We think our plan of completing it in one week is preferable to the English plan
In England the admission on the two first days is 5 s., or $\$ 1.25$, for each person; on the third and fourth days it is 2 s. 6d., or 62 cents, and on the two last days it is 1s., or 25 cents. plan of having one 50 cent hay attended our exhi. tage here, as many who have found great inconvenience, and many ladies and gentlemen would rather pay double the price to have more accommodation. A large stand for seats is erected near the stock ring, and a charge of 1 s . is made for seats. This plan might be advantageously adopted at our exhibitions. The crowding around the ring here is laborious and unsatisfactory; a great im provement might be profitably mada The exhibition of stock, particularly of short ing alone but the numerous other breeds added greatly to the attraction. The Longhorns, Devons, Sussex, Welsh cattle -thrifty black animals-the dun-colored delicate Jerseys, and the small, compact, beautifully marked Guernseys were all in
not see an Ayrshire beast on the ground; no prizes re awarded to that class. We thought this an one in England took sufficient interest in that class to rendor a prize list for them necessary. Every animal appeared to have its attendant. They are brought out on call in much better order han with us. Each class of horses was better re presented than at our exhibitions; still our show ring of horses would find plenty of admirers, an would even astonish some in England. In shee the exhibit was very good. Ono che the Downs The arla lar shee much larger than the 曻outh Downs, having wool very much resem
 anit fine. Many of these animals were perfect models. The advantages claimed for this breed are hat they are good milkers, yielding early lambs, excellent mutton and a good fleece. The mutto from these sheep ranks next to that of the south Down. What we want now in Canada is to prove the quality of our meat. Cotswids, Lut colns and Leicesters of the present date yeld mut ton of a coarse qualty, an English mutton-chop is very different from that of our mutton. We can improve ours, and we think the proper sheep to do it with will be the Oxford Downs.
We felt a strong desire to bring some of this class of sheep with us, but on enquiry at liverpool what the cost would be per head to New York, as we intended returning that way, having pur chased a return ticket in Canada, found he prow was et per head from tivh, as we had been York. This we Condian steamers carried sheep from Canada to Liverpool for about $\$ 2$ per head, and there is always more freight going to Liverpoo than returning. Thus $\$ 20$ per head appeared too much, besides the trouble of passing through the States.
There were no Canadians at the Royal Exhibi tion purchasing any stock that we could find. A Mr. Hewer purchased a they werc for the U. Were buying, or tull times and uncertainty of mone-
 strikes, \&c., here, have kept American and Canadian stock purchasers from the Royal this year. We passel the pig pens, but found that none of the breeders of whomswe inquired knew anything about the improved Berks breed. They exhibit them there, but call them Berkshire hogs.
The exhibit of agricultural steam engines was
enormous. We presume there must have been beenormous. We presume there must haved on the tween two hundred and three hered in a grainweeding machine than in any other new impleweeding machinc than in any ons through fields nent. This machine is made to pass through fields
will pull up or break off the heads of all rubbish
larger than the width of a blade of wheat. It is drawn by one horse, and a series of close-set iron or steel teeth revolve, combing the rubbish out of the grain. Our impression was that this machine might take out cockle, thistles and other nal implerom the grain. Most of the agricultural an they nents were much are with us.
and durable.
The farmers do not exhibit grain, as they do in this country. The seedsmen exhibited lots of seeds of all kinds. There were no floral, fruit, vegetable or art displays as with us. They have selarate exhibitions for different purposes in England. The Prince of Wales visited the Exhibition. The Exhibition grounds are situatein nearl every miles from the Mam the station to the grounds was covered with platforms for seats or stands. The best seats were let for one gainea, equal to $\$ 5$; the second best, half a guinea, 10s. 6d., a little over \$2.50. Standing space was from 28. 6 d. , or 62 cts., to $\$ 1.25$, and the platforms were all filled; $£ 1$ was about as readily paid for a seat as 50 cts. would be with us, and this in England, merely to sit on the fence and see the Prince pass by! Loyalty, respect and love for our che the feeling when her Englani, and the Princess come amongst us,

## Fall Ryc.

Rye is said to be a most impoverishing crop, exhausting the land of the very best plant food it can give and leaving it permanently barren. We do It is generally sown on land that is not fertile enough for the production of wheat or other cereals, and it must have food; the land having very little plant food is easily exhausted of hate. Where rye has been grown on land of avan woull tility it has not Rye has this advantage-it will give a tolerable crop on land that would not be worth cultivating for wheat. We have seen fair crops of rye on cold, hungry upland soils, and also on moory land that might produce wheat straw, but not wheat. Another point in favor of rye as a fall crop is its great hardiness. It is not apt to be winter-killed. It is indigenous to tho wheat When we may reasonably expect a crop let weal we would prefer sowing a plot of rye than of wheat, even for the grain.
Rye as a forage crop is not sufficiently appreciated. For soiling it is invaluable, as there is no other plant hardy enough to maintain its growth during our (anadian winters that will give so heavy an early cutting for soiling. September in the best month to sow it for that purpose, but tober is none too late. Sown even in the latter
quantity of green forage for cutting in the middle of May. Those who are not in the habit of soiling their stock would find it to their advantage to so a plot of rye to help out their pastures.
Rye is often sown also at this season for early pasture. Either as pasture or soiling it may be plowed in time for turnips or mangolds, and by this means the land may yield three profitable crops in two years. Gardeners have been long conversant wit

## The Provincial Exhibition of $18 \% 8$,

The citizens of Toronto have acted nobly in furnishing suitable buildings for the Exhibition this year. They have erected the best buildings for the purpose to to fouiding is a handsome one, high, spacious, neat and airy. The Horticultural Hall and neat and airy. The Horticultara Handsome buildings, but rather too small.
The exhibitors filled all the available space in these buildings to overflowing. The exhibit was very good in the Fruit Department, and in the Art made at any previous Provincial Exhibition.
The Agricultural Building for dairy products was not as well filled as it might have been. The display of vegetables was good. In grain the display was but medium. The exhibit of stock and implements was very good.
The weather was most favorable, the attendance large and the crowd very orderly. Lord Dufferin opened the Exhibition with an appropriate speech. He remained there throughout the Exhibition an passed through the different departments, examining the different products, unattended by officials. The attendance was large each day. The Provin
year. year.
new machinery.
A novel plow was shown by Messrs. Thompson \& Williams, Stratford, Ont.,-a large circular sfeel plate in the form of a disk. It revolves and turns the furrow. It appears as if it may do its work,
but whether it will displace the use of the old plow or not remains yet to be seen. A new and very cheap hay tedder was also exhibited. We should judge that it could be constructed at onethird the price of the old tedder. John Abel, of Woodbridge, Ont., exhibited an attachment to his thresher, by which the hulls of the barley are removed.
McMurray \& Fuller, of Toronto, Ont., made an enormous display of woodenware. One would judge
they could supply this Dominion. they could supply this Dominion.
complaints that nhotld be regarded.
Complaints are made of the disposal of goods in the mạin building. They were badly mixed, mak ing it difticult for the visitors or judges to find articles. The space for visitors is altogether too small, the passage-ways at places far too narrow, and the crowd was allowed to enter at every point, making it dangerous to be in the bullding. When such large crowl a direcspaces, There was scarcely a seat to be found on the ground. Planks are cheap and they would not be damaged. The poultry shed was kept closed till late on Wednesday to accommodate judges only. They should be made do their work on Tueslay, or before 11 oclock on any other day. Complaints are made of the sudlen alteration in the prize list. Due notice should have been given to the public that changes would be made in time t. let all prepare for such. The regulation regarding the shearing of shoep should be either expunger
issatisfaction; neither judges, exhibitors nor the public are satisfied.
A great attempt has been made to fix the Pro incial Exhibition permanently in Toronto, but th sense of the farmers is against such a proceeding.

## The Western Fair.

This exhibition was held in the City of London on the week following the Provincial Exhibition in Toronto. The weather was favorable and the
ttendance of visitors was good. The implement manufacturers made an excellent display. The ex hibit in stock was not as large as usual. The Directors have, we think injudiciously, reduced the amount of prize money offered for stock. The deficiency was more particularly noticeable in th Hereford and Galway classes, neither of whic were represented. In the Ayrshire class the prize list has been too much reduced. The Shorthorn were exhibited in larger numbers, but not as many of them as have been shown on former occasions, The animals exhibited wared favorably with those them would have con Exhibition in England, and exhibited at mave han chance to bring we think mig the Enclish honors. The display heep and swine was good.
The exhibit of grain was not equal to that ormer seasons. Samples were not as good.
In fruitz, vegetables and flowers the exhibit was not near as large as at Toronto, and the display in the main building, althoug gor, The large compare of mored for prizes by the Pro incial hibit for the prize money alone.
In the art department the display was meagre, and many pictures that carried off prizes were saaintings worthy of commendation, but some should be condemned as unworthy of a prize, or even of space near good work. The pictures displayed in Toronto were well worth the payment of an extra admission fee to see. The Toronto artists would exhibit in London if a suitable space were allowed them for such a purpose. To display a good picture in an unsuitable light does injury to an artist. London should aim to induce artists from other cities to compete.
There were great complaints about the appointment of judges in some departments. One judge in the fruit department had given such offence previously that some exhibitors objected this year, and declare they will not show again. Some exhibitors of Ayrshires complain that some jucges in that department of cattle. In may exhits. This is strongly bjected to by many who claim to ask a fair field and no favors.
Every person prefers the Exhibition grounds at London; they are always in good order. It gave dated with seats-one long one in the shade of the agricultural building, which we noticed was covered with ladies every afternoon. This accommoclation might be increased.

Guelph and liamilton Exhibitions.
The Guelph Exhibition was well attended by stock exhibitors, and was equal in that respect to the London Fxhibition; but the attencance of isitors was rery slmall. The ctertins comino the same week may fard
The Hamilton Exhil
week as the London Exhibition tended to
both. The attendance of visitors was small. Exhibitors generally consider that there are far too many exhibitions. They cannot attend to them all, and in fact some are contemplating cessation from exhibiting, the expense attending them being so great when followed for weeks together, as they now are.

## Facts Deserving Attention.

We have often heard it remarked that manufacturers and stockmen would rather exhibit at the Western Fair in London than at the Provincial Exhibition if held at any other place. To satisfy ourselves on this question, on Friday morning (the closing day of the Western Fair) we inquired of the leading exhibitors who had attended both the Provincial and estern Fairs, and asked the fol lowing question: At which place have you ececed tor business, in London or Toronto? The follow. or g ape the , ing are the replies from
Bell Brothers, of St. George, said their business and prospects were three times as good at London as at Toronto. Green Brothers, of Waterfordbusiness and prospects were both much better in London. Toronto Reaper \& Mower Co.-sales and prospects much better in Toront). Haggart Bros., of Brampton and St. Thomas, considered they were about equal. Massey, of Newcastle, said the prospects were much better in London, for more real farmers caine to inquire and examine machines in that city. Harris \& Sons, of Brantford-London was a better place for them than Toronto. Noxon, of Ingersoll-much better in London. John Aber, Wo. biness was hardly as in London. prospects much better. Sawyer, of Ham-ilton-better in London. Watson, of Ayr-sales have been 100 per cent. better in London than in Toronto. Waterous \& Co., Brantford-London Exhibition is the best. Thompson \& Williams, of Stratford-business done and future prospects are both much the best in London. J. Snell \& Sons said there was a better demand for Cotswolds in Toronto, and a better demand for Leicesters in London; in Shorthorns the prospects were about the same. Mr. Thompson, of Bright P. O., was the largest exhibitor of Ayrshires at London; he made two sales, but sold nothing in coronto. The testimony of all the London manufacturers an agricultural centre, but we do not give their an agriculthese facts should be borne in mind There has been less done to make the Western Fair a success this year than for many years. The prize list for stock had been so much pared down that many breeders became disgusted and would show nothing, while everything was done in favor of Toronto-new grounds, new buildings, and the attendance of our much-respected representative of our Queen, Lord Dufferin, who favored the Toronto Exhibition with his presence three days. If such attractions had been made in London, the probability is that the attendance would have been nearly doubled.

Tree Planting on Barren Lands.
, Somewhat has been done in Ontario in the drain. ing of marshes, and the consequent improvement of waste lands, but as yet it is but the beginning of a gool work. Cery muly remas the case in the western prof the of waste lands has long claimed the attention of the nations of Europe, and even in the New World whose sparser population rendered an equally large proportinnate area of arable land unnecessary, the
people are planning works of a similar character, and in places on the Atlantic and Pacific some successful works have bcen accomplished. At a gress at New Haven an interesting paper on subject was read by B, G. Northop from which deduce some valuable suggestions.
He direct
He directs attention to the reclamation of waste lands by drainage in Europe, where it has been results as only need being briefly mentioned.
Eugland, Ireland and Holland, to name no oth
countries of Earope, contain millions of acres of such land, now reclaimed and exceedingly fertile. Even lakes from ten to fifteen miles in length have been drained. In 1848 was completed the draining of Lake Haarlem in Holland. The lands thus recovered have since been sold by the Government for nearly $\$ 3,500,000$, or about $\$ 80$ per acre. The success of this grand experiment has promoted
others, like the draining of the Zuid Plas-a lake others, like the draining of the Zuid Plas-a lake
covering nearly 12,000 acres, and the great work now progressing to drain an arm of the Scheld, which will recover some 35,000 acres. Encouraged by the results of these enterprises, the Netherland project of draining the great salt water basin the Zuiderzee, an inland sea which covers $1,300,000$ acres. The Italians have nearly completed the work of enlarging and deepening the tunnel cut by the Emperor Claudius to drain Lake Celano. This tumnel, more than four miles in length, and costing over six millions of dollars, will recover for agri-
cultural occupation 42,000 acres of most fertile land.
Such extensive works as those are: not needed here. There are in the Dominion tens of thousands of acres of fertile land ready for the labor of he husbancman ; but there are also large tracts of -much of it easily accessible by railroad and highcally reclaimed and rendered very valuable. Th success of such undertakings in Elurope should be stimulus to us. When the works now in progress in Hungary are completed that country will have over a million of acres of swamp land reclaimed from marsh and moor. So it is also in Italy, and similar works are carried on in England and France.
Were there similar exertions put forth in Canada her young men would find employment in the work of improvement, and the improved value of the land would repay, with a large profit, all the expenses incurred
The sand barrens of the coasts are especially reclaiming barren wastes, and the feasibility of reby facts, Of the drifting sands of Europe, which cover $7,000,00$ ) acres, Marsh, as guoted by B. G. N., says:
"، There is no question that most of this waste is capable of reclamation by simple tree-planting,
and no mode of physical improvement is better worth the attention of civilized governments than Worth the attention of civilized governments than
this. There are often serious objections to ex-
tensive forest planting on soils capable of being tensive forest planting on soils capable of being
otherwise made productive, but they do not apply otherwise made productive, but they do not apply
to sand wastes, which, until they are covered by woods, are not only a useless incumbrance, but a source of serious danger to all haman improvements in the neighborhood of them.'
After an extended account of the manner of re-
claiming the sand dunes in Europe, by government appropriation, and similar enterprises in this country, with some remarks on the necessity of adlapting the method in any particular case to the nature
of the soil and other local conditions, the writer said: As this scheme of recuperating sand wastes is regarided as chinerical by many who have not
investigated the subject, I will cite facts found near at home. The amount of land planted with trees
in l'arnstable County is estimated at about 10 , oro acres. Before the trees were planted these well-
nigh worthless lands could be purchased at from
twenty-five to fifty cents per acre. John Doane,
of Orleans, has planted 170 acres.
He has sold of Orleans, has planted 170 acres. He has sold
planted lands for $\$ 14$ per acre, not worth over fifty
cents before planting. John Kenrick, of South planted lands for \$14 per acre, not worth over fitty
cents before planting. John Kenrick, of South
Orleans, says : "My experiments in tree. planting Orleans, says : "My experiments in tree. planting
have been made on over a hundred acres now cov ered with trees from one to thirty-five years old, Corsican pine and European larch. My first aim has been to cover my worn-out lands with beauty
and verdure, and it has proved a successful and economic experiment. The seed of the pitch pine is worth from one to two dollars a pound, the
higher prices being in the end the cheapest Fresh higher prices being in the end the cheapest. Fresh
seeds carefully gathered are as sure to vegetate as corn, but obtained from seedsmen they are very unreliable in germinating. European nurserymen take far greater pains in gathering forest tree seeds,
and understand the art of curing them better than and understand the art of curing them better than
Americans. I have tried every method of tree Americans. I have tried every method of tree
planting, transplanting trees from the smallest to
those that are two feet high plan, but may be adopted when The wishes costly time or desires a few trees as a wind-break or otherwise. In transplanting trees immediately
from my own nursery to the fields, my favorit from my own nursery to the fields, my favorit
time is just as the buds begin to startin the spring.
I have planted seeds both with a planter and b I have planted seeds both with a a planter and by
On our light sands a man and a boy will hand. On our light sands a man and a boy will
plant three acres in a day; dropping six seeds in a
hill, it will take about one-half hill, it will take about one-half a pound of seed to
the acre. This is my favorite method, and is more the acre. Yis is my favorite method, and is mor
satisfoctory in results, though more costly than
that of using the plow and planter that of using the plow and planter. When the
evergreens are two feet high I would thin them evergreens are two feet high I would thin them,
leaving one thrifty plant in each hill. I do not
trim till they get trim till they get
dead branches."
The best time
early in the spring as the frost permits. The work is done by hand or by a seed planter, and in rows
about as thick as corn is ordinarily planted. On the Cape Cod barrens there was no vegetation except a little moss, low poverty grass, so-called,
and in some cases light beach grass. Experiments and in some cases light beach grass. Experiment,
are now in progress to fix the dunes or sand hills
which which threaten the suez canal, by planting the maritime pine and other trees. Last summer in
visited the celebrated forest of Fontainbleau, in visited the celebrated forest of Fontainbleau, in
France, which covers an area of sixty-four square
miles France, which covers an area of sixty-four square
miles. The soil of this wide tract is composed entirely of sand, and apparently as dry as the sand
plains of Wallingford, Conn. Jules Clare, a stuplains of Wallingford, Conn. Jules Clare, a stu
dent of forest science of world wide dent of forest science of world wide fame, says earth, and it is almost withont water; it would be
a drifting desert but for the trees growing and a drifting desert but for the tr
artificially propagated upon it."

Improvement in Machinery We were recently at the Joseph Hall Agricul tural works, os awi. Here wifest. They aim to keep ahead of all implement manufacturers in the Dominion, but sometimes they find that a difticult task. We think in the "Champion" reape there is a new feature, far in advance of anything we have yet witnessed, although we have recently been to the Royal Exhibition and to Paris. In place of using cast iron in the frames and shaftso the "Champion," solid steel is used, and the bear there is ten times more brass and steel used on the machines we saw in course of construction than o any we have yet secn. drability of these the strength, lightess and a new horse-power. is much lighter than the old Pitt's power, and is said to reduce the power refuired to run it to over the power of one horse and nearly the power of two. Farmers that have old Pitt's powers examine old horse-power to some one that does not take the Alvorste, and purchase the best. This company has already shippert near two hundred tireshin material used lyy this firm is unsurpassed in quality Their clover thresher appears to be destined to take the lead and surpass some that have had a groods at the Exhibition.

Large Canadian Enterprise The Waterous Engine Works Company, of results of their last year's business :
The sale of "Fire Proof Champions" was $\mathbf{8 5}$ ore than five times as many as all others put iation of its Fire Proof Qualities by both armers and threshers
In Germany, where it was tested lately, it licited much admiration ; and Mr. C. H. Waterous ., is now in the vicinity of Vienna, Austria, test Inglish it on a 40 -cylinder threshing machine of English make, and thise in predict arg heavy, cumbersome, screen spark-arresting English ngine.
Besides building engines at the rate of four per nd grist-mills manufacturing wonderful despatch, to keep
and embraces the whole of Canada, inoluding Manitoba even saw-mills to foreign countries
They are adding valuable improvements to their hampion Engine, enlarging their works, and parpose building 200 engines for 1879 .

## Weather Predictions

vennor's impressions for the autumn and
Ottawa, Sept. 27. - Vennor, the weather prophet, ion that there will be a protty general snow fall early in the month of October. That following his there whill be a brief but well marked Indian ummer, which will again be followed by a prohe setting in of winter of 1878.79 will be as marked for its unusual earliness as was that of
$1577-78$ for its extreme lateness. S77.78 for its extreme lateness. $\begin{aligned} & \text { Navigation will } \\ & \text { close early, and will not open until late, so that the }\end{aligned}$ lose early, and will not open unti1 late, so that the
winter will be a long one. There will in all proba-
ility be an abundance of bility be an abundance of snow during the fore and
latter part of the season, but, juding from the latter part of the season, but, juding from the
number and severity of our thunder storms this summer, I look for a warm and singularly open term towards midwinter. The woods are already
full of our winter birds. Snow fell in Ottawa full of our winter birds. Snow fell in Ottawa
County to-day. North of the Hull Mountains the atmosphere has been extremely cold for several days past.
Note.
Nt
Nore.- It will be well for our readers to have
heir work well forward and be prepared for the their wo
worst.

## Phosphor-bronze.

The following brief notice from an English paper on this very valuable English alloy is of peculiar interesto mechanics and mach a on and used in our agricultural implements as well as in other works.
There is a very fine set of examples of that mosi There is a very fine set of examples of that most
valuable of modern alloys-phosphor-bronze. If the ancients had known what an enormous im
provement in their bronze was to be effected by
 the copper and tin, the bronze age would have asted many centuries longer than it did. Nous ases yet known presents such capabilities as phos ho- ironze. It is, in effect, almost indestructible
Among the exhibits is a bronze plunger which had been in constant work for 572 days, sixty strokes a minute under a pressure of three tons, and which hows no signs of wear whatever, while hardene
teel plungers only lasted two months. And here is a phospor-bronze worm hardly worn after 18 monthe use, while a brass worm, atter 12 days the material to the widest variety of uses is show by it application in the manufacture of chisels, re art capabililities are ardmirably illustrated in a couple of busts, one in the rough and the other
One of the great uses of the phosphor
polished. tant resistance to friction is required it is of th nighest utility, while, in additian to all its "the
nool qualities, it possesses the merit of lightness

## Aquriculture.

The Wheat Crop.
The price of all commodities is and must be regulated by the unalterable law of supply and de mand, and to this there is no exception in favor o
breadstuffs. When the supply fully equals the demand the producer cannot expect very hig prices. The demand for breadstuffs and the quantity available to mes to the farmer
of great importance to the farmer.
In Great Britain, the great market for our agri1878 of the area under wheat, making the total area under wheat $3,400,000$ acres. The yield is fully an average-about 30 bushels to the acre. We set down the aggregate, after deducting for casualties, $100,000,000$, and there will be required not less than 100,000 bushels of imported wheat. From France we do not expect a demand. She will about supply from her own resources the demands of her people. Other estimates are that she may need breadstuffs more than the plas
country-perhaps $40,000,00$ bushels.
We learn from a U. S. department of agriculture and from the agricultural press that there will be and from the agricultural press that there will ee $200,000,000$ bushels, so that the supply of 1878 is much more than sufficient to meet all the demands that will be for meet all the demands the the area of wheat in the United States was unprecedentedly large-greater by 17 per cent. in 1878 than in 1877, winter wheat having increased 12 per cent. and spring wheat 23 per cent., the area under wheat being computed the aver000 of acres will be about 13 r $^{1}$ per cent., age yield will be about $13_{1}$ p per cent.,
making the aggregate of $430,900,000$ bushels. Deducting from this aggregate $220,000,000$, the estimated requirements for home consumption and seed, there will remain for export upwards of 200 , 000,000 .
Of the wheat crop in England the Agricultural Gazette says: "The agricultural returns show that the acreage of wheat is over 17 per cent. more than last year, while as to the yield, although there will not be the grand crop at one time anticipated, owing to deficiencies in the filling of the ears, yield $12,000,000$ quarters, or $2 \frac{1}{2}$ millions more tha the crop of last year.'
From the statistics given farmers may see tha
the prospect is not one of high prices. However, the good yield of fall wheat will more than compensate for the lower prices.

## Fultz Wheat.

The Fultz wheat is the best variety now in the market, and if properly farmed will yield on an
average epual to any wheat in the country. Many average epual
farmers claim 40 bushels per acre this season. It
has a stiff straw and does not lose any grain in has a stiff straw, and does not lose any grain in
handling, and when it is cut will lie compact and take up less barn room than any other variety of wheat. It will weigh 64 lbs . per bushel if clean, it always sells readily for the highest price, and
the flour manutactured from it has no superior. the flour manutactured from power to have the
The farmers have it in their por
best wheat in the country, and always find a best wheat in the country, and always find a
ready sale; and why will they persist in spreading ready sale; and why will they persist in spreading
a worthless variety that will not benefit them in a worthless variety that will warning. - American willer.


Thappened to our wheat crop this year. The varie-
ties most successfully raised here were the most
cut. The stable is in three parts : 1 st-2
taken $\mathrm{ft}$. i
from one end and divided in three parts ties most successfully raised here were the most
badly damaged by fly and rust, while the Clawson badd Fultz-so liable to rust in this climate-
and escaped almost entirely both the rust and fly. The
Fultz in some localities, and in the same field, made as high as thirty-two bushels per acre, while
the white native wheat made but four to six the white native wheat made but four to six
bushels. The same field and the same lay of land, the same seed and the same cultivation, time of sowing and treatment, presenter
fore unknown and unheard of."
The wheat returns of Australia for the year 1877 , as compiled by the registrar-general, show that
there has been an increase of 3,514 acres in the quantity of land sown with wheat during the year. The area reaped of grain shows an increase of
2,220 acres as compared with that of the year 1876 but the yield of grain has fallen short of that o the previous year by 7,870 bushels. The decrease
is attributed chiefly to the severe drought which is attributed chiefly to the severe drought whic
was experienced throughout the country during
several months of the year, causing in some in Was experienced of the year, causing in some in
several months
stances a total failure of the crop. The yield o stances a total failure of the crop. The yield o
grain unaffected by rust in 1877 was only 12 grain unaffected
bushels 40 po pounds per acre, as aga aginst 20 bushels
as pounds in 1876 . The average yield of wheat 28 pounds in 1876 . The average yield of whea
grain free from rust in the eight years from 1870 to grain free from rust in the eight years from
1877 inclusive, is a little under 20 bushels to the acre. 18
It is with pleasure I enclose my subscription
for the year, as I think your paper just the thing for the year, as I think your paper just the thin
for the farmers of the Dominion. the centre is the feed room, $25 \times 20$; stables 18 ft deep, with five stalls in each part. 2 nd-a yard $56 \times 30$, for young stock. drop down straw. I water can be had, a well is preferable in this yard. There is a large door on each side to drive in and take out the manure. 3rd--The cow stable i directly under the straw house, $56 \times 25 \mathrm{ft}$., divided into three parts; centre is feed room, $25 \times 26$, with trap door above to let down chaff. Stables are 15 ft. deep, and six stalls on each side. All stable well lighted, as well as feed room and yard. Thi are outer doors for stables and inier dosi 9 ft into the centre yards. high. The advantages lighter and posts run up to top of building, forming of central purline work, and the whole building being framed into these posts, makes a much stronger rame. It is handier for storing, for forks working and for threshing; is better ventilated; all straw inside, all stock inside; manure all under cover. When a farmer has one of these barns he has all the outbuildings he requires.

Uxbridge, August, 1878.

an Improved Barn anderstabling Sir,-In the August number of the Farmer's Advocate you give an account of "Barns without Beams," but believing the plan of the following is ar superior to it or any I have seen or heard of, 1 hought it would interest the thousands of readers of your extra Show number, and therefore sen," you a description of it an
which can be seen above.
The barn is $56 \times 80$; outside posts 20 ft . high ; purline posts 33 ft .; 5 bents, 20 ft . spans, framed sills $3 \times 12 \mathrm{in}$.; plank bedded on stone wall. Bari proper is $56 \times 60$, leaving $20 \times 56 \mathrm{ft}$. for straw propese. Driving floor 16 ft . wide. Bays on each side floored with double inch boards. Double doors work on rollers. There is a ventilating door in each gable end, working with a small pulley from the floor; and one on the roof, which are very useful in time of threshing to allow dust to escape On each side of the driving foor is alacer reaching to the top of barn. Granary is 20 ft . square to keep the mill in for clearing up. Barn is well lighted. Nhould stone be scarce, the wall need be no higher than to clear the ground as shown in

Value of Flax.
Mr. Watson, of New York, in pre senting a table of statistics fr
Agricultural Report, says in
Flax is the best crop in Morrow Co. 'Flax is the best crop in Morrow Co.,
Ohio, giving $\$ 27.08$, or thrice above the Ohio, giving $\$ 100$ per acre. This, with the fact that the United States yearly
imports about $\$ 25,000,000$ in flax and its imports about $\$ 20$, in
manufactures, or, manufactures, or, in finty years, 000,00 , should cause a large productio of flax; showing the policy of manufac
turing near the flax felds, rather than turing near the flax fielas, rather than
shipping its products over continent and oceans for this purpose, marking an
important era in our textile history. important era in our textil last year Eng
The facts (official) that The facts on manufacturing yare: Cot tons, $\$ 228,082,050$; linens, $, 711,366,540$
silks, $\$ 17.805,30$; and woolens, $\$ 100$, silks, $\$ 71,805,380 ;$ and woolens, $\$ \$ 100$,
217,$395 ;$ total, $\$ 471,461,365$, , $\$ 1,250$, 217,395; total, $\$ 47,461,365$, or $\$ 1,250$,
000 per day. With Illinois vast means of raisisg and manufacturing textiles
with State bounties for fostering said with State bounties for fostering saic labor, and return in taxes a thousand
fold interest. Were you to get your Governor or Legislature to grapple with this vastly important subject, I could
give ample precedents and invaluable facts regard give ample precedents and invaluable facts regard
ing American flax, hemp, jute and ramie, on which,
in in fifty years, the United States spent $\$ 915,000,000$ Would we attain the wealth of england and France,
even with our superior resources, must we not use the same or better means?
How applicable this reasoning of the New York tatistician is to our Dominion! We have but to hange the and the state, substituting Canada r 1 . 1 that he says of the vast means rais and manufacturing textile fabrics seems rith ecially for us Canadians. Are we to sit is a nation, employ return in revenue a thousand fold

Dear Sir, I am in receipt of some of the the FARMER's ADVocate to any of them.
Chatsworth, Ont., July 29, 1878.
I think the Farmer's A DVocate a boon to the
country. I wish ou success in your labors in country. I wish you success in your labors in promoting the welare Thomas Johs: Ton. ${ }^{\text {try }}$ Peterboro P. O., May 10 , 187 F .

## Construction of Tile Drains-No. 5.

by prof. manly miles.
In my last article, page 202, the types make me say that "it is necessary to provide for the entrance of water at read. "It is not necessary to provide for the entrance of water at the top of the provide for the entrance of water at the top of the
tiles where silt is liable to be washed in with it."
As the efficiency of a drain will depend largely As the efficiency of a drain will be best to provide some permanent protection of this part of the system to prevent any displacement of the tiles by the action of frost or the treading of cattle.
A stone wall laid up dry, if of tat or quarry stones, or with water-lime mortar, if of cobble stones, will be found the most economical and satisfactory protection. The foundation of the wall should be laid in a trench at least three feet deep, so as to be bell rach at lent three feet above the tiles, to support the embankment that will be required to protect them from all disturbing causes. The tiles that pass through the stone and form the outlet of the drain may be one or two sizes larger than the tiles immediately above them, so that an iron grating may be placed over the outlet to pre vent vermin from entering the drain, without re tarding the discharge of water when the tiles are running full. In making the moderate expendi ture required for fane fres of failure outlet one of drains will be avoided.
in the wha 0 , with close joints, and the outlet is well pro mhe there are but two causes of obstruction that are worthy of especial notice.
Where bog-iron ore is found in the vicinity of springs that are discharged into the drain, a de posit of the oxide of iron is liable to form in the tiles and may completely fill them. The only remedy for this is to take up the tiles and remove the obstruction. It is well, however, to notice the ocalities where such springs sourse of future annoyance.
The roots of trees under certain conditions spongy mass that in the end forms a complete obspongerion. In all cases in which I have observed
struct struction. of obstruction there has been running water in the tiles during the dryest seasons, an it seems that a perennial spring and a season drought are the conditions required to produce it.
It is often difficult to determine the tree or trees It is often difficult to determine the tree or trees that are the source of the drain are not always immediate vicinity of the drain are not always troublesome, whic ery annoying.
tance may prove very any remedy for this difficulty but the sacritice of the trees that produce it. Care must, however, be taken to determine the real must, however, be take
cause before resorting to this heroic remedy in localities where it is desirable to preserve the trees for shade or ornamental purposes. Willows and elms are more likely to be troublesome than other varieties, and the protection of the joints by cement which has been recommended by theorists has not proved an efficient remedy in practice Where it is desirable to preserve the trees in othervicinity of a drain, a larger tile than when obstructions occur the drain must be taken up and the tions occur
roots removed.
The place of obstruction may be detected by ob serving where the water rises to the surface, or not removed rapidly after a heavy rain, which win be at or just above the seat of difficulty on mod-
erate slopes, or where the descent is rapid, it may
be just below it. In places where such obstructions are liable to occur it will be best to have a small well from the drain to the surace, so that any partial stoppage of the tiles may be detected from the diminished flow of the water in a made time, that a at a con
occurs.

Draining Springy or Swampy Land. A Ke Suby subscriber of the Tribune submits a case for advice. It comes under the above gen eral subject, and as there is much land like his in the country, almost useless unless drained, and as the drainage is somewhat difficult, the case seems to deserve a somewhat extended notice. It
would have received it long ago if the gentleman would have received
had signed his name to his letter, so that more
full inquires could have been made. He says :"I send you a diagram of some wet land (which gives me a good deal of trouble and no
which I hope you will have time to examine and which I hope you whe have hpy places hold water
suggest a remedy. The swamp
very tenaciously, the soil being black muck, with a very hard and compact sub-soil, composed princi pally,"
From the diagram it appears that the field is an
blong rectangle, shaped and proportioned like the oblong rectangle, shaped and proportioned like the
flat surface of a brick ; that it contains twenty flat surface of a brick; that it contains twenty
acres; that there is a fine fall from both sides toacres; tha curved line running nearly through the
wards a
midde, lengthwise ; that this line has a rapid de middle, lengthwise ; that this line has a rapid
scent towards one end, but runs nearly its entire scenth through a strip of marshy ground from
lewenty-five to seventy-five feet wide; and thene twenty-five to seventy-five feet wide ; and thele
are several springs in the field, and that open
and ditches from these springs and throubs the
marshes have already been cut. The subscribe marshes hav
says further
" Wher it rains the water will stand for week ditch, though there is a fine fall toward every one of them. There is high land all around this
swamp, and it has occurred to me that the swamp wamp, and aused by the water settling down from hight hills and forcing itself to the surface.
The remedy I should suggest would be to tile drain the entire field system owner says, and the so is naturally fertile except for surplus water, , is natd certainly pay, unless neighboring land (goo
would
without tiling) is exceedingly low in price, and without tiling) is exceedingly low in price, and
labor and tile exceedingly high. The field lies labor and tile excee. A large main drain should
admirably for tiling.
be laid three feet deep, in a curved course through be laid three feet deep, in a curved course through
the field, following the line of the lowest level, and laterals at the same depth should branch out
and receive the water from each of the springs They should be so arranged at the upper end as
receive the entire water of the springs immediately, without wash or sediment. They should
also be root-proof through their entire length (a crop roots will seek the rumning water insich, alon
yet admit the water from the marshy ground alon yet air course. The size of these main drains must be governed by the amount of water furnished
the springs, the marsh and the surface wate the springs, the marsh and the surface wat
caused by rainfall on the entire field. Probably caused by rainfashould be at least six inches, an
the large main sho
the main branches three or four inches in diameter the main bratches three or four inches in diame the Then aterals shout each other, to the nearest
slope, parallel with eank
main. These should be of two-inch tie, and sunn mani. hese sho dee
at least 30 inches
tant from each other.
I think there can be no doubt that such a sy tem of draining would make the entire field arable frue, the wag onto the open ditches; but these are pror thirly sung only to the gravel, and if the muck
is nearly impervious to water, the water would stand in it as described. But if the tiles were
sunk into the gravel a foot or two the hydrostatic pressure would force the water throngh the porous
gravel into the tiles. Laying tile is like knocking gravel into the tiles. Laying watar is sure to find
the bottom out of a pail the wate
its way out I have never yet seen the soil which itse way out. I have never yet seen the soil which
a thorough system of tile draining would not free of its surplus moisture. It would probably cost
not far from $\$ 2.5$ per acre to drain the field thoroughly, making laterals thirty-three feet apart
all over the field. -W. $I$. Cl, anblerlain, in $N . Y$. all over
Tribune.

Contributors' Notes and Queries. To cover stubble land with some growing crop
a benefit which experience in Western New is a benefit which experience in Vestern New
York and elsewhere has fully demonstrated. It
Ir protects the land from the effects of the hot sun,
adds fertility and improves the mechanical condiadds fertility, and improves the mechanical condi-
tion of the soil. The expense is only the seed and harrowing it in, or, if neecessary, the use of the
cultivator also.
But, even if the plough has to cultivator also. But, even if the plough has to
be employed, it is found a paying operation, as it be employed, it is found a paying operation, as it
mellows the soil (particularly at this time of the mellows the soil (particularly at this ume remains.
year), and turns over what plant refuse
The ploughing should be light. Any thrifty grain Yhe ploughing should be light. Any thrifty grain
may be sown. Millet is excellent on a good soil, may be sown. Millet is excellent on a good soil,
which it requires. On indifferent soil oats will do, which it requires. On in indiferent soil oats w plaster, which easily doubles the growth. Peas
also, more than any other growth, shade and mel low the soil, , unless we except buckwheat. Where
the field is intended for some late spring crop, like the field is intended for some late spring crop, like
corn, rye is the plant, as it grows till late in the
fall corn, rye is the plant, as ar sping, making, at late
fall, and starts early in the s.
ploughing a large grow th. -It is one of the riohest ploughing, a large growth. It is one of the riohes
of plants, yet so great is the increased yield of the cr plants, yet so great follows, particularly coren, that there
cuust be some other effect besides the plant food
mut which it contains. This is also the experience wit young clover, which, with a summer s growth, gets
a root two or three inches in length in deey soil, and dowbtless other plants are similar in effect. Montgomery.

Storing Show Potatoes.
How Mr. Yiter McKinlay stores potatoes (who
cultivates 600 varieties in Peckenham, England) an English exchange says : When a row of any sort is lifted, the best
Whes are selected with care, and carried into a large airy outbuilding, which is lined with tiers o mall wooden bins ranged one above the other, bu pen at the top, each one holding about halif
pushel of potatooss. Into these the selected sam ples are carefully laid, and are covered up with dry sawdust, where they remain clean and fresh
until required for the show table-whilst the re naining tubers of the sort, having been exposed to the air and fully dried for a fow hours, are then
buried in a amall pit at the end of the row, wher buried in a amall pit at the end of the row, whe re-
they remain until the show tubers havin been remoyed from the bins to win prizes at exhibitions,
move heaps are opened, the selected seed tuberra aro the heaps are opened, the the thins to remain for the winter, whilst the remainder go to the store for domestic con
sumption. As in front of each bin the name of the potato occupant is placed, each sort is easily found when required. There is no better material
in which to keep tubers fresh and bright than clean, dry sawdust.
Gegetable Mould Prevents Leaching A correspondent of the American A ariculturish
hrows out a useful hint to farmers who have light, sandy soils, when he says
Almostall thin soils are peculiarly subject to
leaching -that is, to having their goodness washed through them. The remedy is to make a soil full of fine mould. To this end the land must have a crop upon it all the time. A growing crop and form
soil with roots. The roots decompose an
mould Red clover is pre-eminent as a mould-mak. mould. Red clover is pre-eminent as a mould-mak-
ing and soil-making plant. Buck wheat is useful ing and soil-making plant. Buckwhear is wed as
chiefly when it is plowed under. Corn sowed furrow for fodder, being scattered in every third furrow
when plowing cut and fed or cured; in either case it is beneficial. The roots and stubs make a great mass of as a green manure the result is most satisfactory. Turnips
cover the land quickly, and if plowed under are of cover the benefit. In any event they prevent the growth of weeds, and as summer fallowing is al.
ways detrimental to such land, quick growing green manure crops are our only resource, for and
heir use we work the soil, we kill the weeds and we impro land, sll at the kame time and with we improve
little labor.

## The weevil.

The presence of these infects may be detected
me by the weight of the grains. On throwing a hand
ful into a bucket of water the diseased grains will ful into a bucket of water the diseased grains wos-
float. Atter the female has, by means of her rostrum or beak, deposited an egg in the grain, she
trum covers it up with a sort of gue of the same color
as the husk, hence the difficulty of detecting the presence of this depredator in the granary during presence of this depredator in the gran
the time when it is in the larva state.

Moss in Old Pasture.

A Scotch correspondent of the London Journal
of Forestry in an article on "improving and laying down of permane
subject as follows
A still more formidable enemy to restrain and extirpate in old pastures is the encroachment of
the noosses. They are to be found thriving more or less in almost all situations, and in every de scription of soil, but more particularly are they to soils. Where it is inconvenient or undesirable to plough up and crop land thus overrun with coarse grass and moss, somethe maver the surface with sharp
cate them by going over the
close teethed harrows, crossing and recrossing till close-teethed harrows, crossing and recrossing til the moss is thoroughly scratched up; clean onf the
rubbish, and therefore apply a good top-dressing rubbish, and theretore apply a good top-dressing
of lime, or lime compost. Unquestionably pure
Und lime is preferable, and put on as hot as it can be
conveniently applied, at the rate of from five to conveniently applied, at the re of trom feb Februsix tons per imperial acre. of March, would seem
ary and up to the midde of
to be the best time for this occupation. After the lime has got a good shower of rain, brush or chain harrow it well into the ground, removing all
rubbish gathered up by the harrows, refuse of the lime, \&c.
In about a month afterwards, and not later than
the middle of April, sow a mixture of the best the middle of April, sow a mixture of the best to thirty pounds per acre, which can be obtained mixed and ready, and suitable to the nature of the soil, from the seedsman with whom you are in the
habit of dealing. If there be any tufts or tussocks of coarse grass it would be well to root them out.
Brush harrow again, and finish up by rolling with a heavy roller. On sheltered rich lawns, and only are grazed, and where from various causes, the pasture is not eaten sufficiently bare by the sheep, we have seen moss and decayed vegetable
matter collecting on the surface to a depth of an macter and a half, the ground feeling like a Turkey carpet under the feet. To such a length does this sometimes go that sheep cannot be kept more than aflected by foot-rot. In the end of the year we have seen the expendient tried of putting on for a
few months an extraordinary stock of hardy winfew months an extrao purpose of baring it down as
tering sheep, for the pur tering sheep, for the purpose of
far as possible. In some instances we have seen a crop or two of hay cut, the second year's crop being the heaviest,
After the first crop has been removed a perceptible After the irrst the thickness and sponginess of the surface will be noticeable, and if the second crop is a heavy one, and closely cut, all supertluous
sward and moss will have disappeared. The fol. lowing year the grass will be much cleaner and
finer, and the shecp stock can be kept on through. out the season. We have seen a lawn so treated
let for the seasou's let for the season's grazing at an imerease of one
pound per acre, while the hay crop of the two precoeding seasons yielded a profitalle return. But, as our agricutural ${ }^{\text {of these methods for improving permanent pas }}$ of these methods for improving permanent pas-
ture are but half measures, and are not always attended with the desirel results.
If old and worn out pastures are to be iupproved
in the general sense of the term, wherever it is at all practicalle to do so, we unhesitatingly say, alough up and give a systematic and thorougl course of cropping. Plough in the autumn, an
have it completed before the end of the year, so a have it completed before the end of the year, so as
to allow it to get as much of the winter frosts as possible, and rot the tough surface, which i turned down. See that the furrows are laid ove
firmly and in such a position that they will not firmly and in such a position that they
open back, as old tough lea is liable to do, more especially where the furrows are latid up, hill or against the hand, and thus a yuantity of seed would fall between, and to some extent
In this, the western district of l'ethshire, the rota tion followed, is the five, six or seven years course. We sow with oats for the first crop, and
if necessary, give along with the seed at the time of nowing al liberal application of guano mixed with dissolved boness this insures a heary crop, which
chokes and destrovs the weeds. After the removal chokes and destroys the weets. After the remorac
of the crop, comnence to cross-plow deeply, ac
companied, if practicalle, ly sul) soiling, plishing and plowing as carly as possible, for the sake o the bencticial action of the atmosphere on the soil
In spring work up the land thoroughly, great
ciare leing taken that all nowiwh wects of every Aescrintion are gathered, and eintier purned one the
ground or renoved. A crop of turnips or pototoes
may then be taken, but the fewer of the latter the better for the land. Apply from fifteen to twenty of artificial per acre. If farm-yard manure is scarce, apply less, and add more of the artificial,
and if wholly sown with the latter, apply from and if wholly sown with the latter, apply from
eight to ten cwt. per acre, and if the quality is good (a matter at times open to doubt) and no other drawback occurs, a good c.
potatoes may be expected.

## Horseshoes.

alexander hyd
To shoe or not to shoe is the question that in gitating horsemen nowadays, and it is one in ong been convinced that our horses as commonly hod carry too much iron on their feet. To compe horse to carry shoes that weigh from one to two power, especially as this weight is at the long arm
f the lever. A few pounds, more or less, on a horss's back amounts to nothing. Not so with
weight at the end of his legs. To sympathize with a horse condemned to carry heavy iron shoes on
his feet we must put ourselves -in his place and consider how heavy a light weight becomes when
held at arm's lenth and how difficult it is to make a good day's tramp with thick-soled cowhide boots on our feet. To run a race with such boots
is out of the question. When in our teens we un dertook a tramp of 30 miles in one day, and
was a great relief in the after part of the day to was a great rellef and the it stocking-footed the bal ance of the journey.
We are not, however, prepared to say, as some
ao, that horses can go barefooted in the highly do, that horses can go barefooted in the highly
artificial life which they lead on our farms and especially in our cities. On the sandy plains o Arabia a shoe may be cecessary, but we nce hard roads and paved streets light shoes, on the colt's feet are seldom hurt on our roads. We re cently:fexamined the feet of a colt 5 months
that had followed his dam that day on the roa 24 miles, and his hoofs were as perfect as though he had lain quietly in the pastren put to service would retain the same perfect hoofs, but there is
cuite a difference between trotting along without quite a difference between trotting along withon soft summer road and the hubby icy one of wint
The argument of the advocates of non shocing is that the expense is great, that horses are mor damaged thaw benefited by shoes, and that if ac customed to shoeless feet from colthoot triey and er and further, and are sounder every way. As to the expense of shoeing there can be no doutbt.
The blacksmith's bills testify conclusively on this point. We are not so certain that all the diseases
of horses' feet and legs are to be attributed wearing iron shoes. That their sharp calks caus many wounds; that blundering smiths often mak
lame horses; that the weight of so much iron causes a great strain on the muscles and sinews of the legs, and that the wear and tearecter with stables, grooms, and every by the common mode of shoeing we have abundaut occasion to know. That a horse can travel further and faster on a
smooth coad without shoes we do not doubt. smooth road wither experience
Still we need further
adopt the theory of shoeless horsses.
This subject was discussed at the last public meeting of the Massachusetts Board of Agrich1
ture, when Mr. J. E. Russell, of Leicester, who has male horseshoes a special study, read a paper
on "'The Management of Horses," and thus give rent to his views: "Our greatest folly in the manthe clumsyy handling of a stupid, ignorant, and not here contend that horses should not be shot batbarians, is, when carefully used, an assistance in utilizing the powers of the horse in his artiticial
life; but in the common way of doing it, it is the most oncrous tas imposed upon mankind. A horse
condemned to wear heary shoes to which hecl and toc calks are alfixed hegins to fail from that mo
ment. At the age when he shomid be in the fullest enj"yment of his strength he is callen old. And
few of our horses live out half their days, the
great cause of their decline being from diseases of
the feet, all of which are caused by ignorant shoeing. In the management of colts on a farm, they should not be shod until they come to rapid and
long-continued labor on hard roads, and then the long-continued labor on hard roads, and then the
lightest possible application of iron should be made. The safest way is to let the hind feet be bare, and shoe the fore feet with tips or crescents of iron
that only cover the toe. It must be borne in mind that only cover the toe. It must be borne in mind and the hoof must be trimmed keeping that ever in view."
In the disucssion which followed the reading of Mr. Russell's paper it was generally conceded that
shoeing of horses is a necessary evil, at least so far shoeing of horses is a necessary evil, ate gostleman testified to having a mare 8 or 9 years old that had
never had a shoe on her hind feet, except in special ever had a shoe on her thimes in Winter, and that had never known her to make a misstep when her shoes were off
Ir. E. F. Bowditch, of Framingham who Mr. E. F. Bowditch, of Framingham, who ha given much attention to this subject of horse-shoe
ing, expressed himself thus : "A horse's foot in a state of nature, when it is worn down properly, is
side at the the heel and the toes are worn down wide at the the heel and the toes are worn down,
the bars are in perfect condition, and it has a wid and elastic frog which takes all the jar from the oot. The caise of heat in a horse's foot is, no oubt, the jarring, hot, is very sensitive, and causes the horse acute It is . Why has his foot the condition? It is because, in shoeing, the frog, which not bee allowed to come on the ground, and it becomes ried, shriveled-up little thing of no great use a pavements if horse foot is kent in proper con dition. My way of shoeing is to get a level bear ing on the horse's foot, and keep the frog on the
ground. Never have a heel or toe calk except round Never have a heel or oe calk excep last winter I rode my saddle mare (and of course my neck is worth more than anything else I own) on glare ince, small toe-calk. I recollect galloping out on the ice where the men were at work catting it, and so that was marking the ice and had calks on two inches high.'
The French farriers have studied this matter of smiths, and their aim is to put just as little iron nn a herse's foot as possible, whereas it is seemingly the purpose of most of our smiths to put on
as much as they can, and it must be confessed that they work senerally according to the instrucnot oct their moners's many of whom think they do shod with a large amount of iron. The favorite shoe is just a little rim of iron put about the hoo set in a groove, so that the whole bottom of the ho is travelling, the frog bar, sole, and the whol buttom of the foot, just like a barefooted horse. It is only the rim of the foot that is protected."
We fear it will be some tine before our farmers iron as this is all that is necessaay to protect a The agitation of this yuestion of shoes or no shoes has had very much the same effect on farriers ance cause ; if it has not done away with the use of iron on horses' feet, it has greatly diminished its consumption in this form. Mr. Goodenoughs
patent slioes are in fashion, and are very light, and this shoe carries out the principle which Messrs.
Bowditch and Russell advocated lee ore the Massachussetts Board of Agriculture, of keeping the certain that time and trial will not decile that iron and stecl a are not more neccessary for the protection
of horses' hoofs. Should it be so, the horses will rejoice, for there is no question that they suffer putting callked irons upon our shoes when we were young, so that we might stand up on ice. They
answered the pupose for which they were intended, but they mate us lame after a short time, and "e lave u doult that much of the lameness of nelusion, so far as expericice now shows, is, that
if horses must wear shoes, let them be made as light pusilile, and so made that the frog may alwa)s
(b)arden, (0) erluard aud forest.

## Small Fruits-When to Plant.

by e. m., drummondville, ont. Most writers upon this topic are interested in the sale of plants and have "an axe to grind," and are therefore inclined at planting. I propose to set my "axe" arge fall plante, and give my honest opinions, based on an experience in the milder portions of Ontario and on a sandy soil.
For ordinary field culture strawberries should be set in the spring. For special garden culture, plants may be set early in the fall, especially if potted plants are used. Families without strawberries will generally be inclined to adopt this plan in order to have fruit in the June following. Fall set plants have to pass through two winters and take their chances with the weeds for nearly two years before a full crop is obtained, while spring set plants have a mellow soil to start with and only one winter to pass through to reach the same result.
Black-cap raspberries, if planted in the fall and each plant mulched, may succeed, and if they do so, will make a large growt Spring is, however, hes-ries and red raspberries caps. Currants, gooseber-ries and red raspberries have succeeded will all succeedif planted in early spring, but it is seldom possible to get them plant ed before they start to grow. If planted in the fall, they are growing nicely about the time that spring planting begins, and make a good growth the first year. The ordinary red currant dropped its leaves in midsummer this year, and could be planted at any time. The Roby Castle retains its foliage till November, and is by far the most
valuable currant we have. valuable currant we have.
Grapes are best planted in the spring, later than most other fruits.
As blackberries are rather tender, spring would seem to be the safest time for them. One gentlemaŕ who publishes a journal and has a very large " axe," is just na plant them not at all, and their profitablen ${ }^{\text {oss }}$ is certainly an open question. The blackberry $c_{1}$, Wise. With me Lawton blackberoften it is other. 'ce hedge, which has resisted the ries make a very $n$. $\vee$ and would resist thieves as frosts of three winter. er, walk around it, as I well. Thieves, howe know to secure all the small It is a very safe plan to 'all, and plant such
plants that are required in the. and keep the plants that are required in the a sud keep the as succeed best Any of them bay bafely others till spring.
kept if covered up with dry soil, whic be scattered among them so as to prevel. ${ }^{\text {theating. }}$ In winter an additional covering of coarse manure may be used to prevent freezing and tha wing. Plants thus kept are ready for early spring pl. ing, which is rarely the case where they are tained from nurserymen after spring opens.

The Codling Moth-Another Remedy. Mr. Tuttle, President of the Wisconsin Horticultural Society, says he has discovered a remedy, or rather a trap, for the codling moth. This is the trap:-
Take shallow pans or saucers, and place some
strong apple-vinegar in them, and hang among the strong apple-vinegar in them, and lof of the vinegar
branches of the tres. The smell attracts the moths,
drowned in the same
Mr. Tuttle says he has caught over forty codling moths in one of these pans in a single night. He
counts it a great success.

Downing, the leading authority on fruit in this
country, of this matter, and of his suceess; and country, of this matter, and of his success; and
that Mr. Downing advised him to disseminate the
informen information through the medrum of the press, as it
would be of immense benefit to the fruit-grower would be of immense benefit to the fruit-growers
of the country. Certainly this is important, if
true of the
true.

A number of years since, in the Genesee Farmer, I saw directions for keeping at bay the destructive peachborer. (half a peck), early in May about the
slaked lime
roots of the tree the earth having ben previty roots of the tree, the earth having been previously
removed to make room for it. This spring I set removed to make room for it.
out a peach orchard, and bearing in mind the sug gestion, made an application, of however, only one half the amount specified. A rain came on
soon forming a sort of lye in the hollow at the soon, forming a sort of lye in the hollow at th
base of the tree, and presently I noticed on quite a base of the tree, and presently I noticed on quite
number of trees leaves wilting. I removed the lime as much as possible immediately, but one-
fourth of my trees are dead. Could the trouble fourth of my trees are dead. Could the trouble
have been the lime? The lime used was fine lime, have been the lime. The lime used was fine lime,
procured directly from the kiln. Again, Inave procured the statement that fine iime thrown upon
seen the
plum trees when the fruit is just set, will save it plum trees when the fruit is just set, will save it
from the curculio. For two or three years I have from the curculio. For tho or three years have
tried this, and althought it seems quite effectual, yet, when about half grown, the plums begin to
rot, and often nearly the whole crop is lost. Has rot, and often nearly the whole crop
the lime anything to do with this?

The European Larch.
by horts.
The value of the European Larch as a timber tree can hardly be over-estimated by the Canadian farmer. The time is fast approach Canada, as in Furope for the many uses its wood is particularly Europe, for. Though closely allied to our nativ marack, it is of a far superior nature from the T: - dity of its growth and the straightness of the rap1 The wood is remarkably heavy and of trunk. vength, and lasts a length of time if properly seas oned. The wise farmer will have avenues or plantatio. ${ }^{\text {n }}$ of it planted without delay. © this ing says: "' ' ' od upon thin, barren and dry soils, is another great merit which it possesses as an ornamental tree; at vell on these very rocky and enable it to thrive i. most in character with the
barren soils, where it surrounding objects. It is highly valuable to pro-

uce effect or shelter suddenly, on portions of the farm too thin or meagre in their soil to afford the deciduous trees.
Other good authorities unite in giving expression to the importance and value of the larch, and especially for the older settled parts of the coun ry-where the woodman's axe has been ringing or years, but where soon, if nothing is done to seep up the supply, its music will be stopped and nothing be left but the memories of its
The larch can be safely transplanted in the autumn, when its foliage begins to fall, especially arge specimens for the lawn or lane. For larg lantations select small plants. Larl packing After being established they make from two to three feet of wood annually, so that in very short time the largest may be thinned out for the arious purposes of firing, fencing and building It would prove a good investment to those having the land to plant out for the purpose of growing Thes suitable for telegraph poles and railway tien There is sure to be constant and increasing demand or these from the gradual disappearance of ceda swamps by improved drainage and bush fres, and the demand for the wood wil maty welo from those interested in its use.

## Quince Cultivation.

Why is it that the quince, which is as hardy and as well adapted to our soil and climate as the apple, is comparatively scarce, and commands on the average three or four times as much in our markets? There is seldom, if ever, a gat the market, and prices are uniformly remunerative, bringing in in Now York and Boston, almost every season. The apple, in the fresh or dried state, enters into the annual supplies of almost every family, as cider, vinegar, jelly, sauce, and other preparations, and is also a profitable feed for
our domestic animals, while not one family in ten our domestic animals, while not one and jellies. It is really one of the most appetizing and wholesome of the sweetmeats found among the stores of our housewifes; and the cultivation of this fruinshould
be greatly extended. We know of no fruit that promises so good returns as this to the intelligent
iruit.grower. If we look at the quince plantations fruit-grower. If we look at the quince plantations
as we ordinarily find them, they are few and far as we ordinarily find them, they are The popular fancy is, that the bush flourishes best in a damp
soil and if there be an undrained swale on the soil, and if there be an undrained swale on the
premises, we may safely look for the quince bushes
pher premises, we may saety
there. More frequently than otherwisethey stand in the grass, receive no cultivation, and after a few
brief years die, either from stagnant water, or the rief years die, either from stagnant water, or the
attacks of the borer. Under such treatment the
trees had no chance to bear fruit, and make themtrees had no chance to bear fruit, and make themselves profitable. The quince wants a deep, rich,
rather moist soil, but it should always be vell rather moist soin,
drained. Good corn land, that will bear maximum
crops of grain, will bear good guinces. No fruit crops of grain, will bear good quinces. No fruit
pays better for thorough cultivation, and the ground should always be kept under the spade or plow, and should, if we want abundant fruit, re seive a good dressing of manure every season. The
bush or tree requires very little other care than the occasional thinning out of the branches if they crowd too closely. The thinning of the fruit and profitableness of the crop that remains. The fruit as well as the flower is quite ornamental, and
an attractive feature in October and November an attractive "feature in October and November The " Apple or Orange duince, brings the best price in the market. The quince is easily propa-
gated from cuttings, and this is the simplest and best method of multiplying a desirable variety. Cuttings put down in the spring in a moist, well
drained soil, a little shaded, will root readily corrant. In making a plantation the young treess should be set at least ten feet

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none too much,
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## Raspberries-Varieties. <br> by e. m., drummondville.

One of the amusing features of the Fruit Growers' meeting held at St. Catharines in July, was
that each fruit, and each variety of fruit, demned in turn by one or the other of the members present.
If a novice were to dig up each variety as condemned, he would be left with a varied assortment of weeds, for even weeds and shallow culture had their brave defenders in that assembly. It will therefore be understood that in naming varieties which succeed here, will or treatment. The Mammoth Cluster is the best black-cap raspberry; Doolittle is earlier and Seneca later and a better grower; Davidson's Thornless does not suit all soils, but $\operatorname{tin}_{\text {is }}$ liked by some. It is the earliest black-cap, but we need very few early rasp. berries, as buyers are at that time badly demoralized by cheap strawberries. Philadelphia is the most profitable red raspberry that has been many suckers, and grows rapidly Clarke pro duces larger, brighter colored berries, but not so many of them. The experience of 1878 gives us a better opinion of this variety. A stiffer soil is said to suit it be still. Highland Hardy is very

early, and berries very nice but small, and is it not a remarkable cropper. Brandywine is a handsome, dry, firm berry. If it proves hardy and productive in our climate, it will be very valuable for shipping purposes. The Turner is a splendid grower-berries large and goot. Its productioll spoken of by those who have tested it. The Herstine produces a very nice berry; if the plants can endure the extremes of heat and cold, and give large crops in this climate, it will hold its own with others. These questions will soon be settled. Read's Prolitic is a handsome berry, which is said to be a cross with a large wild sort and to resemble it in flavor
An idea still lingers in the public mind that the wild red raspberry has a flavor superior to the cultivated sorts. To explode this idea your readers
have only to test them side by side with any of the civilized varieties that 1 have mentioned, Varieties better still in quality are known, but they have not proved to be sutficiently hardy and procuctive
for planting on a large scale.
The raspberry crop of 15 is was a very small one The raspberry crop of 18 is was a very small one. did to the strawberries, as the latter had a
force of blossoms which the former lacked.

## Novelties in Gardening.

When at the Paris Exhibition we noticed several new designs in gardening which we're to us novel and very attractive, and several of which
we shall give representations of. We give you in fig. 1 an illustration of apple trees that were used as a border, or for the back-ground for smal plants. These apple trees were planted about 12 eet apart. One limb only was allowed to grow on each side; these limbs had short fruit spurs, on The trees were only is inches hirh and they may be just as easily trained in this manner in many of our gardens by those who desire effect. We give you this representation to show you how it is done. Fig. 2 represents a very remarkable specimen of evergreen pruning, and must have taken many

Canned Fruits in Demand. The home and foreign demand for canned fruits nd vegetables is yearly on the increase. So say
prominent canners and dealers. Every successive season brings forth some new idea. Last year a Delaware establishment undertook to put up a
mall quantity of preserved blackberries and huckle. mall quantity of preserved The venture proved a success, and it is anticipated that these fruits will henceforth occupy a prominent position in the ranks of canned goods.
Nearly every kind of fruit is now preserved by he canning process. Canned apples, strawberries, hortheberries, cherries, grapes, peaches and pinepples are largely exported to ve asparagus, peas, corn and tamatos, in the ners have specimens of their products on exhibi-
tion at the Paris Exposition. and it is calculated ion at the Paris Exposition. ary considerable inhat the fact will result in a very considerable in-
crease in the foreign consumption. One exhibitor rease in the foreign consumption.
has already
One exived an
reced order from Paris for 100
cases of canned pears, and cases of canned pears, have
several sample orders have
been received from different parts of the continent. ent parts of the continent.
There is also an active
foreign demand for canned
 and salmon.
soft crabs, shrimps and samed to learn how the con. sumption of fruit butter is on the increase," says a manufacturer. "The trade is nearly dounling
itself every year. We now make butter out of itself every year. We now make butter out of
peaches, plums, apples, quinces and pears. From peaches, plums, apples, quinces and pears. From
what we learn from the grocers the consumers are mostly to be found among the poorer classes, who
find the prices-from 15 to 20 cents per pound-very much more advantageous than that charged for milk butter. We have received a few sample orders for this class of goods from thand, but our agents do not give us much hope that a large
foreign trade will be developed. Still, as I have said, the home demand is increasing at an enor mous rate.'
The canners represent their trade as of a very
risky character, in a pecuniary sense. Sonnctimes

they will buy a large stock of fruit at what they consider the towest tigure the market can stand. After the purchase has been concluded, prices will waited expectantly are thus enabled to put up their goods at a lower figure than their competitor
who has bought high. The latter, to maintain his who has bought high. The latter, to maintain his place in the market, has to adopt the low prices,
which in many cases will not recompense him for the cost of canning. In this manner several large canners lost considerable in last season's business.

Growing Chestnuts.
We have on repeated occasions suggested the rowing of chestnuts upon soils where but little
lse will grow, as a means of protit, both in fruit and wood. The chestnut is rapid in its growth, and will in from eight to ten years begin to bear a be planted as soon as the fruit is ripe and before it becomes dry, and should be planted where the tree is desired to stand. Chestin will thrive almost any where, and would be especially valuable where
timber is scarce and rough land abounds to appropriate to the purpose. A good selection of the
American chestunt is the best. Our nuts are much American chestnut is the best. Our nuts are much
superior to the Spanish, French or Italian, though not nearly so large, and even gratts can be set with the ease and certiainty of the pear. There is al-
ways a market demand for the nuts greater than ways a market demand for the nuts greater that
the supply, or any supply likely to be furnished. The question is onc of real interest in every sec-
tion where scrub land is abundant and tmber scarce; or wherever there is such land, as a means mantoren Telegresh.

The Prince of Wales at the Royal by William the Conqueror. The castle is large, $\{$ by protecting the game and the foxes, for foxes are Agricultural Exhibition at Bristol, old and peculiarly constructed. In it is the room kept on this estate as well as other game; for in

England, $18 \% 8$.

The above was drawn by our English artist on the ground, and engraved by our Canadian artist. The greatest object of attraction at this Exhibition direction to get a glimpse at him, and cheer after cheer filled the air as he approached or receded from different parts of the grounds. He paid par ticular attention to the stock, and carefully ex amined many of them. The only animal he actually handled was Kirklevington Empress 3rd
The Prince and the animal are both conspicuous in the engraving. The Prince had several gentlemen in attendance with him, but our space would This animal was considered the most promisin see the der - these magnificent old sos, sock, some ${ }_{\text {over a hundred hurses at starting, and many a mis- }}$ heifer on the ground, and drew a great deal of $\mid$ spotted-and the fawns keeping up a peculiar little hap occurs before night sets in, but a fresh lot will


The Prince of wales at the Royal Agricultural Exhibitton at Bristol, England, 1888.
Ittention. It carried off the first prize in its class. | bleat sounding much like the shriek of the sea ${ }^{\text {be }}$ bere the next day. They come from long disWe made inquiries about the pedigree of the ani- Gull. In one part of the park a wire fence, a tances to enjoy the sport. The farmers do not nal, and found that neither sire nor dam were on lot of hen coops, hens and a thousand young phea- mind the huntsmen crossing over their wheat the ground. Being rather desirous of seeing the stock that this animal was bred from, we went to Berkley Hall, in Gloucestershire, is the owner of the heifer. He has a very fine herd of choice Shorthorns, among which is the Duke of Connanght, the sire of Kirklevington Empress 3rd. He is a very superior animal, excellent in every point, but most so in length and depth of llesh on the hind quarter. The dam of the heifer Kirklevington Empress also a fine animal, and has a pedigree of great re nown. Among this herd are to be found some o the gems in Shorthorns. His Lordship can well afford to set a pattern to other farmers, as he has had the means and spirt to thessessor of one of
the wtately homé of engiasi, amely, Berkley Castle. This the family has wned for hundreds of years. ld Danish fortresses, and was taken possession o ains. bed clothes, furniture and wall hangings are $\begin{aligned} & \text { hardinge keeps over } 200 \text { hounds and } 40 \text { herses for } \\ & \text { He goes out four days in a week in the }\end{aligned}$ still there, mostly in an excellent state of preser- $\begin{aligned} & \text { hunting. He goes out our days inan requires two } \\ & \text { vation, although the murder was committed } 550 \\ & \text { hunting season. Each huntsman }\end{aligned}$ vation, although the murder was committed 550 hunting season. Eep up with the hoands, and a most beautiful old trees we have ever seen, well horse is only fit to be used twice a week, the work deserving a visit from real lovers of nature's grand- is so hard on them, and a pack of hounds are only est arborial productions. The beautiful ivy, yew, fit to run twice a week. Some of the ladies join cedar, laurel, pine and oak are most charming and in this sport, and one lady is considered as good a enchanting. At this place pheasants were seen rider as the huntsmen. Sany a fall takes place, walking leisurely about the grounds in sight of the and occasionally a ife is and can theop one, castle. The old oak mentioned in Doomsday Book that all who can sic on a horse and can keep one, is still alive in the deer park. This park contains and can aford any follow the hounds that 400 acres, and has a high wall all round it. It His lordsip lets any one follow the house two, evening among these magnificent old trees, and to and enjoy the sport occasionally. There are often potted-and some red, some nearly black, some

CNTAFE ants. These are raised for the shooting season; fields; they do not find that their crops are inthe gamekeepers collect the eggs from the nests in jured in harvest time, although they may look bad the woods and rear the pheasants under hens, because the foxes would kill all the young ones if left in the woods. There are five other breeding places for pheasants on the estate. The estate consists of 20,000 acres in one block; nearly the whole of it is rented to tenants in lots of re worth to 300 acres each. Some of the tenans arer merican friends $r$, the at their stump speeches: Tenant farmers in England worth over three hundred mersand dollars
We went among the tenants and peasantry. They have a happier and better time, and live more comfortably, more respectably and in a beter manner than half the dwellers on 5 th Avenue pay easy rents, and delight to please his lordship,
they strive to see who cau give him the most sport doubtful if they will ever be able to do so, in which Edward II. was murdered; the bed cur- stance, they killed 160 foxes last year. Lord Fitz-

## 刃刀airy.

## Different Ways of Utilizing Milk.

 best way to dispose of milk, selling it by the quart or making it into butter or into cheese?
The consideration of a few facts will decide this query with tolerable accuracy. In the first place, it may be stated that the cost of making a given quantity of milk into butter or into cheese is so nearly equal that it may be assumed to be the same. Another point consists in the fact that with milk of average quality it will take ten lbs. of milk to make one of cured cheese, and that the milk which would make two and a half
Another item which will enter into the question is that, when milk is estimated by weight, a quar is considered to weigh $2 \frac{1}{2}$ pounds. The refuse o butter and cheese making must also be taken int account, as it has not the same value when milk made buepual effect by different ptople, owing to differ nce in care and skill, and to thriftiness or other wise in care and stock consuming it. If fed as an ac companiment of some suitable food like grass, and to young and thrifty animals like calves or pigs, and is used while it is fresh and before it has become much soured or stale, the whey from fort pounds of milk when made into cheese will pro duce one pound of live weight; and the sour milk and buttermilk from twenty pounds of milk made into butter will also make one pound of live weight, worth in either case four cents a pound, making the refuse from one pound of milk worth one mil when made into cheese, and two mills when mad into butter
From these facts as a basis we can figure approximate results. We will take 1,000 pounds of average milk and suppose it to be sent to a factory that it will make 100 pounds of cared cheese, which, for making and boxing, factorymen who find everything charge $\$ 1.50$.
The price generally charged for delivering milk to factories is one cent a pound on the cheese, which in this case would be $\$ 1$. The value of the whey being one cent a pound on the cheese, is also ing the mill be just equal to the cost of deliver ing the mulk, and both may therefore be left out
of the account. We have then only to subtract the cost of making from the selling price of the cheese, which is now $\$ 8$, to get the net value of 1,000 pounds of milk when made into cheese. We have $\$ 8-\$ 1.50=\$ 6.50=$ net value
If we suppose the milk to be taken to a factory and made into butter, the cost of delivering and manufacturing will be the same as before, $\$ 2.50$, but the value of the refuse will be $\$ 2$ insteal of $\$ 1$, as in the case of cheese, leaving only 50 cents to be deducted from the selling price of the butter to show the net returns. As the value of the in that of cheese, the butter from the 1,000 pounds of milk may sell for $\$ 1$ less than the cheese and yet be equally profitable - may sell for $\$ 7$ instead of \$s. times as much milk as a pound of cheese, there will be 40 pounds of butter in 1,000 pounds of milk, which must sell for $\$ 7$ or at $17 \frac{1}{3}$ cents a pound to be equal to cheese at 8 cents a pound. Deducting balance of 50 cents - the cost of delivering and manufacturing over the refuse - we have
$17 \frac{1}{2}$ cents $\mathrm{x} 40-87$ and $87-50$ cents $86.50=$ the
sare net value as when cheese was made. It will make no material difference whether the milk is made into butter or cheese at the farm or at the factory, since the cost of making at fact to pay for the cost of delivering the milk to the actory.
If milk is to be sold at the farm as we have supposed the butter and cheese were, it should bring nough to make the seme net returns as when made into butter or cheese. The 1,000 pounds of milk
hould bring $\$ 6.50$. The number of quarts of milk in 1,000 pounds is 470 , and if sold for the gross sum of $\$ 6.50$, it will give 1.4 cents a quart. Hence naking cheese at 8 cents a pound, butter at $17 \frac{1}{2}$, and selling milk delivered at the farm for 1.4 cent quart, are all equal. If milk is to be sent away and delivered to consumers, the cost of transporta tion and 2 cents a quart for distributing should be added. As the proceeds from the different mode of disposing of milk rise above or sink below the proportions indicated by these figures, will each hore or less profitable.
There are, of course, a great variety of circum tances which wil modify results. If one has Jor sey cows which give very rich mise nice butter, it would not pay as well ing by the quart as for making butter. And on the other hand, if one had a herd of cows which would give a flood of milk with little butter in it, he would profit more by its sale than its manufacture into butter. The varying circumstances of location and market and conveniences of manu facture must often enter into the mode of disposin of milk. But where no such influences prevail, the proportions given will form a very good guide to the best disposition of milk.

## American Farm House Dairies.

## In a review of the dairy exhibit at the late Sho

 of the Royal Agricultural Society of England, th London Live Stock Journal makes this statement"The fact is that the finest cheese and butter in the world is made in English farm house dairie and nothing the foreigner can bring us can reac our finest qualities; and inneme the gain by gha by the results of fifteen years' scientific which, and be foreigner himself has only made cheese and butter inferior to our own?"
Whatever may be the benefits result
Wharn factory mander the the the there are two facts thatmust be admitted in regard to it, which will seem to demonstrate that the importance of the system had been somewhat overestimated. The first fact is that mentioned in the above quotation-that in quality the domestic product can be made fully equal, if not superior to that of the factory. The other fact is, that in re spect to butter, the great bulk of the supply mus come from the farm house daines. It is therefore obvious that in neglecting improvement here, we are overlooking a most important bill not some of the oldcultural industry. Will not some o" the old public with their views on the subject? For the ordinary farmer, even in "new Connecticut," would it not be quite as profitable to rear the
calves, as was the old custom, on skim milk with calves, as was the old custom, on shorts, and make
a little oil meal, middlings, or sho
the butter at home feeding the buttermilk to pigs, the butter at home, feeding the buttermilk to pigs,
as to run the whole produce of the farm to the as to run the whole procuce of the farm cheese factory? I do not say it would, for I don't
chen know; but judging from the stories told by both
kne present system was not very profitable to either party.
To say nothing of the prevailing opinion as to the fertility of the land, it oan hardly be questioned
tem for the farmer is to devote his land to the pro
duction of grass, grain and stock. And I doubt duction of grass, grain and stock. And I doub

whether the milk produced on the farm may not in any instances be more profitably devoted to th omestic dairy than to the cheese factory.-Ohio | $\substack{\text { domestic } \\ \text { Farmer. }}$ |
| :--- |

## Relieving Choked Animals

A few years since, after having given our cows a
feeding of uncut apples, and then carelessly left eeding of uncut apples, and then carelessly left hem for a half-hour or more without observing
them, we were notified that a fine yearling heifer, the pet of the herd, was in a critical condition.
We found her with her mouth open, head down, and seeming to be in severe pain. 'She groaned almost incessantly, breathed with great difficulty
and was badly bloated, the skin back of the rib eing puffed up and as unyielding as a drum head We supposed, of course, that an apple, stuck in its
passage from the mouth to the stomach, was th cause, but the symptoms were quite unlike a comnon case of choking, especialy in the early stage tt seemed more like bloat, caused by fermentately
of the food in the stomach. We immediatel turned her loose, and drove her rapidly a quarter of a mile and back, but without giving relief. We
next prepared $a$ pint of warm soap suds and next prepared a pint of warm soap suds and
attempted to pour it down her throat from a bottle, but without puccess, as there seemed to be no pas sage for food or drink from the mouth to the d
gestive organs. Knowing that something must be estive organs. Knowing that something must be
done very soon to relieve her, or she would die, and that quickly, we went to the library and tak ing down "Coles Diseases of Animals, run down
the long list of remedies for choking and bloat, to find, if possible, something simple which might be applied without the risk of killing the heifer. Skipping all those which required the use of pro-
bangs, stomach pumps or other machinery, which ings, stomach pumps or ound be impossible to procure in season to be of any use, and all the medicines, as nothing could be swallowed, we settled on two prescriptions.
the first, a band of straw as large as one's wrist, passed between the jaws and tied over the head, to be followed by tapping, in case the former failed to bring relief.
As soon as the band of straw was adjusted, two attendants worked vigorously at either side knead-
ing the bowels just in front of the hips, and in some three or four minutes succeeeded in revieving the heifer of several cubic feet of very bad breath,
when she was ready to tinish her supper, appar when she was ready
ently as well as ever.
This was undoubtedly a case of thoracic choking, the apple being lodged in that part of the gul-
let which lies within the chest, and beyond the let which lies within the chest, and beyond the
point where it could be felt or moved by the hand. In all previous cases of choking coming within our observation, the obstructions have been in the throat or neck, and have been readily removed by a little
Prof. Law, in his " Veterinary Adviser," recom-
mends, instead of the band of straw, a billet of mends, instead of the band of straw, a billet of
wood large enough to hold the jaws well apart, wood large enough to hold the jaws well apart,
each end being contined by a small cord passing each end beng of the neck. This will effectually
over the back
keep the mouth open and prevent the animal from keep the mouth open and prevent the animal at the
sucking in and swallowing more air, and at sucking in and swallowing more air, and at the
same time, if the head is held well up, will tend to same the upward passage of the gas which is caus-
allow ing the bloat and pain.
Similar cases of choking and bloat have occa-
sionally occurred in our herd, all of which have been relieved with little difficulty, either by giving a drench of warm soap suds or by using the gag in the mouth, accompanied by vigorous rubvious to discovery, it might be necessary to puncvious to discovery, it might knife to let out the accumulated gas; but this is always attended with resort.
the every farmer would spend five or ten dollars in the purchase of books treating upon the diseases the moment when most needed, and in nine cases out of ten would save many times the cost of the books.-New England Farmer

The removal of the restrictions on the importa. tion of live stock into Australia apply only to importation of st importation
forbidden.

## The extoric.

## The Horse's Gaits.

The action of all horses should convey the im pression of ample reserve of energy, i. e., of endurance with activity-a power inherited in the majority of examples, but capable of increase
after by stable management. A shuffling walker is a source management. A shuffling walker habit is not of long stanoyance. Rein and begin the pace again. If the lift is exaggerated, the chances are he will speedily cut; if insufficient, it allows no room for the sweep and is unsafe. If thereafter the horse makes the sweep well forward, with an inclination up, deviating neither to the down to the ground firmly he is mater of his action. He must plant his foot evenly and firmly for safety on the ground, with no undue inclination on either quarter of the foot. When a horse is clever in his paces; if otherwise, blame the horse breaker for his impatience or mismanagement. Do not buy if the walk is unsafe.
The trot.-To bring a trotter out demands very careful preparation. Liondition, on which we ad judicate, by handling the firm neck and the deep, nirm flesh, not fat alone; the ribs, associated with a bright coat, clear eye, full wind thout detriment, and it is arrived at by example and judicious feeding, exercise and thorough grooming, watering ad
libitum at night, but sparingly through the day libitum at night, but sparingly through the dond
The character of the trot is either high, low, round or straight, at times accompanied by dishing in
the former and darting in the latter instance, or it may be classified as grand, fair, average or medi ocre action, dependent on style and energy. Most
horses cross their action, $e . g$., wide behind, with close fore action, or vice versa. Few both meet
and leave the buyer truly. He may be in at his and leave the buyer truly. He may be in at hit
elbows and open at his hocks, a form essentially liable to speedy cut. Undoubtedly action should
have liberty, be level and straight to be valuable Cramped action, nine cases out of ten, is the effect of disease or malformation. Fore and hind leg must act in harmony, hocks brought well orwara
under the belly, and fore feet lifted rapidly and lightly away.
High action is tiring, but very saleable; unless,
however, accompanied with power in the hind quarters, it is disappointing, porer the horse cannot leave the buyer well; as Mr., P. puts it, he drag his feet "as a duck in water "- a first-rate simile in his hind shoes, but is at best both slow and
weak behind. Defects in action are rolling, dish. ing, cutting, crossing the legs, stumbling, knuck ence to be shunned. Easy gait, security and pre cision are the cardinal features of a grand trotter
Mr. Thompson says "foreign horses exhibit ex aggerated action in the lift, immense energy in their fore action, but they dwell unduly in the notions of collected action, turning their toes out and displaying their hind action in inver
fore." Verdict-weak in the extreme.
There is nothing to come up to true, all round
action. Turning toes "in or out" is a defect. he former, which most English horses do, is the most ungainly of the two. Too sum up, the general purpose horse, to ride and drive-a well-bred hack
should have free, supple shoulder action, shor pasterns, with a full quantum of mobility, perfect
lection in his hocks, quergy and cover in his stride he should be rather compact than lengthy in hi outline, combining precision, truth and security in
his fore and hind action, and possessing energy, endurance, an agreeable courage and a total ab

Origin of the Canadian Horse. I have occasionally seen it asserted in our agri-
cultural papers that the Canadian is a Norman,
retuced lyy scantiter food, colder climate etc.
Now, this I think physically impossible, as a re.
duction of size in this way, I am confident, would
produce a long-legged, slab-sided, stumbling brute,
very different from the compact, hardy, fine-formed very different trom the compact, hardy, fine-formed
little Canadian, as he has existed there as far as the memory of man, still maintaining his ground in considerable numbers, notwithstanding the nu-
merous crosses in late years of larger English
horses. When I was in Quebec in 1852, I saw a very fine light or dappled gray stallion, much in
the style of Mr. Dunam's "Success" excet was finer in his points. He was about fourteen
hands high, possibly not over thirteen and a half hands-a reas beauty, with fine action, etc. In In
Paris, in 1867, I saw the exact Pallion; also, other equally small horses of same
stant
style, thuogh not so fine. Now. style, though not so fine. Now, I have no doubt
that when the French first settled in Canada this tinued to hreed horse they imported, and have conor rather brigantines, in those days were too small presume, to bring over seventeen or eightee thousand pounds, as some of the Western an Scotch Canadian breeders boast of importing now. - Letter to Live Stock Journal.

## The Best Stallion.

Never select a horse simply because he has a high-sounding, fashionable name, with a corresmany Fearnaughts and Abdallahs and Morrils and Cambletonians there are. Perhaps the last-
mentioned name is abused most. All over New England and the country, you will find Hambletonian this and Hambletonian that advertised to
the breeding public, that are not worth, for stock purposes, the bedding they stand on. Big-headed, big-legged, butt-ended things, they point the
satire on human credulity that could be persatire on human credulity that could be per-
suaded into breeding even a third-rate mare to them. The fact is, the Hambletonian family, great and worthy of patronage as it is, is worthy
of patronage only in case of its finest representaIt can do no harm to reiterate the truism that a pedigree does not make a horse; and that a string noble animal stands at the end of it. Look at the horse before you pay any attention to its pedigree. A wise man might have a fool for a son;
and a great horse improperly crossed will often and a great horse improperly crossed Will often
get a foal in no sense worthy of him. Those who expect that, because a stallion happens to be a
half-brother to Dexter, he will necessarily get colts that will grow up to rival Dexter represent in their mental structure a most unhappy cross ble the immediate parents ; the exception is that he will resemble the remote ancestorily, expect-
who breed to a por specimen of a family
ing that the colt will be like the founder of the ing that the colt will be like the founder of the amily, and not like the immediate sire, axe
ing in the face and eyes of this prime maxim.
Select a stallion short tit the upper tine long in the lower line, strongly coupled over the hips, and the distance between the hip bones and he spine bone swelling with ridges and masses on
nuscle that you can see play and work like great pulleys when taking their exercise, and you will get colts from him that will stride far, and gather fect horse in these respects is one that stands fifteen hands and two inches high (sixty-two inches), and weighs ten hundred and fifty pounds. way in height, or fifty pounds in weight, is allowable, but for speed and endurance, for the pur-
poses of general driving and for the track, and, poses of general driving and for the track, and,
therefore, for the purposes of breeding, no stallion therefore, for the purposes ousand, or more than
should weigh less than a thoust
eleven hundred pounds; neither should he stand eleven hundred pounds; neither should he stand
higher than sixty-three inches, nor lower than sigty. It used to be thought that for the purposes of the track, and in order to be good weight
pullers, large-sized horses were indispensable; but pullers, large-sized horses were indispensable; but 'atchen, and get her nose in at the wire a little nuicker than he could, heat after heat, they had speculation are excellent in their places and way; speculation
but they are useless when put over against the logic
of of facts.

To Our Subscribers.
For the convenience of our readers we incorp,

Raw-hide Horse Shoes. ong been in use on the plains, and raw-hide has iceable and convenient that it might doubtless be ound useful in many places where there are long puently occurring in which disease of the fee muently occurring, in which disease of the fee of shoes cut from raw-hide or properly prepare which needs the most precaution, viz, the foo or walls of the hoof where it meets the sole, will be perserved from contact with hard or rough sum
faces ; while the frog, generally too much prom tected, will reach the generand and become sub jected to healthful action. For farm work, upon of shoe will be useful during the gravel, this kin A simple strip of raw-hide or sole leather, well proof, will hot pine tar to make it hard and water durable shoe may be made of two or more thick nesses fastened together by copper rivets.

## Scratches in Horses.

The Turf, Field and Farm recommends the fol lowing treatiment :-Prepare and give a purge, see-
ing that it acts thoroughly ; then wash the parts with warm water and castile soap; carefully remove the scabs and other hard substances, then
take equal parts of acetate of lead and olive oil mix and apply twice a day for a week, gently rub bing each application in with the fingers : afte wards use once a day veterinary cosmaline. AB
soon as the animal has done purging, take arsenisoon as the animal has done purging, take arsen
ous acid four drachms, carbonate of soda two ounces, water one yuart, mix and, boil over a slow
fire till the acid is dissolved, then cool and fire till the acid is dissolved, then cool and strain Give half an ounce of the solution once a day for
week, then twice a day for a long time. It may require six months before a cure is permanently
effected. Never reyuire the effected. Never require the animal to go faster
than a jog, and not from a walk for the first thirty

 receipt for keeping it.
[There are many plans used for keeping cider Cider may be kept in good condition by using care
Cider to keep every utensil clean, and to prevent access in a conical tlannel bag, and put into a clean and fresh whisky or alcohol cask and then bunged up closely. A vent-hole may be made for the escape
of any gas which may gather in the cask for a few days, when that may be permanently closed. If gerns of decomposition are caried into the cider keep the cider good for any length of time. The apples must be good and sound or the cider will se unsound. Put in a barre
seed. It will improve it.]
D. J. C., writes :-"I have a field of corn which is badly smutted; I have tried to cut it out, but in in the stalk from root to top. Will cattle be
injured by feeding on these stalks? Will wheat be likely to smut if sown on this same land? If so,
what crop would be best to follow? The land is in good condition."
[The smut is very injurious to cattle, and it TThe smut is very injurious to cattle, and it
would be better and safer to burn the infected
stalks than to use them for fodder. If wheat is sown upon the same ground it will probably be infected. It would be better to sow oats, which is
not so subject to this parasite. Smut is frequent not so sujuect seasons, and as the spores or seed of the parasite are everywhere floating about, it is
impossible to prevent its appearance to some ex. impealile to prevent tha ppearanaco o owne ex


 a half feet high, and a prettier piece of grain was gentlemenen frow abroad say that neither in England, Ireland nor sicotland did they ever see better, and
they came far and near to see it A few stalks were in a store in Dartmouth for a show, and they Would not helieve that it krew in this country.
With thanks ior the care and trouble of sending it, With thanks ior the care and trouble of sending it,
1 E.enain yours truly,
Eden bank, Tartmouth, N
Stock,

## Green Food for Cows

A reader at Toms River, N. J., writes to know what is the best plant to grow for very early and very late feed for milch cows. We should pro early feeding, and barley the best of anything we early feeding, and barley
have tried for late feeding. Beets, cabbages and
turnips make good feed for October aud Nover ber, when they can be used without injuring the flavor
of the milk. Cabbages and turnips stand considerof the milk. Cabbages and turnips stand considerable freezzng wifhout, oftentimes, to feed them to butter cows, on account of the odor imparted to fed green or dry, at any time of the year when it
can be obtained. It has been used very extensively for cattle food in California and other countries not specially adapted to the growtit has received very little attention from New England farmers as a soiling crop. We have grown it but one year previous to the present season, and cannot
speak of it with the confidence that we can of oats, rye and millet, yet we believe it will prove a valuable crop when rightly managed. It grows in a
little less time than oats, while it seems to be much little less time than oats, while it seems to be much
less subject to damage by rust and blight. We less subject to a field of it last spring very early, and it
sowed a
appeared to suffer more than oats from the long appeared to suffer more than oats from the long
spell of cold weather in May. Barley is underspell of cold weather in May. Barley is under-
stood to like a little warmer weather than that required for oats, and, for this reason, will do better sown during the hot weather of July and early angust much as oats, and if it would stand up, would bear pretty thick seeding, but from our short experience, we are inclined to think that, if sown very thickly, it would lodge and rot on rich land. present summer. The seed is low at this time in market, that which is suitable for growing fodder being offered for about seventy-iive cents per bushel at the regular grain stores. The seed
dealers who have a clean, choice article ask a little more.
Since farmers are thinking so much of growing green crops for cows, her sory and and very late feeding. Corn and millet are excellent fodder crops, but they are only in condition for feeding
Ezrly or green during the late summer months.
late frost will kill both. We occasionally see rye criticised as a soiling crop. A writer for the New
York Tribune lately asserted that green rye injured the milk of his herd, and, also, as he being from our own practice for a long term of years, we should say that the gentleman was entirely
mistaken. We think we have made good butter mistaken. We think we have made good except
from green rye, and with no other food exter from green rye, and never heard a hint to the con-
grain, and we have
trary from any of our customers ; and as to its trary from any of our customers; and as to its
causing abortion, we should fear it no more than causing abortion, we should fear we should fear a yood hlue grass pastu yount
should be sown thickly, and cut while youn
tender, in order to obtain the best results tender, in order to obtain the best results. Four lushels of seed per acre, on rich, mellow soil,
adapted to the crop, will give a barden well worth
harvesting before the heals come in sight, while harvesting, before the heals come in sight, while
if but one bushel is sown, the crop might seem if but one bushel is sown, the crope into bloom We well remember when dairy cows on most
farms received no feed from May to November, except what they obtanned from pastures, and by
after-feeding the mowing fields, but, since it has been proved that cows can live well and give an farmers raise a patch of it every year to feed dur ing the dry weather, which is generally expected
in August, and to take the place of the aiter feed in August, and to take it is found had better be
of the mowings, which in
mown and cured for hay, or left on the ground for the benefit of the next year's crop. As the subject of soiling cows becomes better understow, it is probable that other crops than value deterinined.
will be introduced and their
Winter wheat sown in septeriber will make an ex. Winter wheat sown in septeniber will make ane ex-
cellent feed to follow winter rye, and spring wheat sown in duly or equal or superior to barley. The cost of seed has been against the use of wheat for soling
but were the demand grater there would, un Englend Eicrmer.

## Tethering Cows.

In pasturing a flock of sheep, or a herd of cows,
apon a heavy growth of fodder, of whatever kind, the whole field will be traversed the first day, an considerable portion be greaty damaged ethering cows, the rest of the field is neither trampled nor
soiled, and nothing is wasted. The herbage is con soiled, and nothing is wasted. The herbage is con
sumed only within the limits of the tether, the sumed only wifn to grow until required, and the remainder is left soon regains a fresh growth, and
portion pastured is evenly manured at the same time. By tethering
we acquire all the advantages of a system of soil ing, without the labor of cutting and carting of fodder, and of hauling the manure made in the yards-that is, if the droppings aresevenly sprea
over the field as they should be, and not permitted to remain in patches. By the use of the tether-pin which we describe cows can be confined within proper limits without risk of winding up the chai
on the pin. The swivel-ring upon the top turns on the pin. The swivel-ring upon the top turn
as the chain is drawn around, and as the head is pressed down close to the ground there is nothing upon which the chain can wind. In using the
tether, it is a good plan to advance the pin each time to a sufficient distance in a direct line, thus feeding off a strip through the field or plot of
ground. When such a strip has been eaten down ground. When such a strip has been eaten Iow, way the grass is eaten off regularly, and when the field has been all fed off it may be gone over again.
Where a number of cows are tethered out, they may be ranged in a line and made to advance dense and tall, a half-circle of twenty feet radius would be nearly sufficient for a cow for one day, so that the pin may be advanceay. A very near estimate may be made as follows: A crop that will produce 11 tons of hay will cut six tons of green grass, which is equal a aw will consume 80 lbs. of
to a square foot. A cow
fresh grass per day; hence 240 square ft. should fresh grass per day; hence 240 syuare ft. should
supply a cow with one day's fodder, which is equal supply a cow with one day s foder,
to a space of 20 feet long by 12 wide. In this way the space fed off may be accurately apportioned.
If the grass is about half grown, twice 240 square feet would have to be allowed, in which case the pin should be mo
so of other yields.

The Food of Animals.
The kind of food, as well as its condition and properties, exercises a wonderfuu infuence in keeptritious food is not the best or most economical
under all circumstances, because the specific sought under all circumstances, becanse the specific sooght to give various substances in a mixed condition to produce the desired results. There is no doult a grain and the meehanieal division of all coarse substauces into minute parts, which aids mastication as well as digestion; but this mode of prepar-
ing food may be carried to extremes, and the ing food may be carried
animals suffer in consequence.
Food in a green state is certainly more nutritious and natural than when dried, as in hay, grain or straw; but in cold climates we have to preserve
food in this unnatural condition, and therefore artiticial means are employed to restore what is lost in drying.
Gran is ground into meal or flour, and in
this condition it is more readily assimilated this condition it is more readily assimilated
than if fed when dry. Boiling or steaming of food is largely practiced for the purpose of
making the coarser kinds soft, and facilitating their digestion. Fermentation, which may be
regarded as a sort of cooking, is also another method of making food easy of digestion, and some writers claim that it adds to its nutritive yualities
We know that brewers grains are extensively em ployed as food for animals, and they fatten cuickly, and if proper care is given to cleanliness and venti-
lation of stables, remain quite healthy. There are lation of stables, remain quite healthy. Therang,
certainly two sides to this question of cooking, steaming, cutting and grinding food for animals,
both as to the weffare and health of the animals. When food of all kinds is cheap, the most profitable mode is to feed with as little preparation as pos-
sille; but in older portions of the country and in large cities there is a great saving by a thorough
manipulation of all coarse substances used for this manipulat
purpose.
Those who most strongly oppose the grinding or
cooking of food for animals, urge that it is un conokn⿺ of foot for anmuas, urge that it is un
natural, and therefore must be injurious, forgetting
that in domesticating animals they are placed nder unnatural conditions. crtais true that an tension and contraction in order to keep it in a healthy condition, and food that is too highly con racteo, however nothan very coarse unnutritious purpos.
food.
In
In feeding any very nutritive food, a certain dded, in order to expand the stomach as well a he intestines. Unless this is attended to, diges-
tion will always be incomplete, no matter how healthy the animal may be, and for this reason we given along with cut hay or straw. The concen trated portion will furnish the requisite nutrition,
and the other gives the needed expansion to the tomach. Animals should always be fed at regular ntervals, and the old maxim of "good food and domesticated stock. It is also well to change the ood occasionally as an appetizer, as ale, farmers
stimulate the digestive organs. As a
neglect to supply their animals with a variety of neglect to supply their animals with a variety of
food, and if they become unhealthy in consequence
and their owners seldom attribute
nishing proper food. $-N . Y$. Sun.

Stack Noter
The Economist, England, of September 7th,
says:-"The imports of foreign llve stock into the port of London last week amounted to 25,102 head. In the corresponding, week of last year we
received 23.534 ; in $11576,26,718$; in $1875,25,385$, in 1874, 19,521; and in 1873, 17,227. The arri-
vals at Liverpool, 'Southamton and Bristol, from American and Canadian ports during last week
consisted of 1,464 head of cattle, 2,257 sheep, and 407 pigs. Although not animated the cattle trade
has ruled steady. Supplies were tolerably good, but the quality was not altogether satisfactory. Susine firm the ther more life in it, and quotatio The inquiry was most animated for the best breeds, which made $\overline{\mathrm{c}}$. 10d to 6s. per 8 lb

Aŕitial of Live Cattle by a Sailing Vessel. -The Glenmorag, Captain Dawson, one of Meesrs. recently from Montreal, with a second pioneer shipment, comprising 60 head of choice Canadian
at cattle, consigned to Messrs. James Hall and Son, of Preeson's-row. All were landed in excellent condition. This venture having proved successul, other clipper ships are expected shortly
with larger consignments. It is worth mentioning with larger conslignments. It is worth mentionig, -Licerpool Post.

Casadias Prize Winners. - Among the Canadians who took prizes at the Michigan state Fair
last week we observe the following :-Berkshires Boar, two years old or over, second to A. A.
Mc.arthur, of Lobo, Ontario. Boars, one year old, McArthur, of Lobo, Ontario. Boars, one year old,
first to McArthur. Sow, one year old, first prize first to McArthur. Sow, one year old, first prize
to McArthur. Best lioar, of any age, only one
Essexpreminu given, and that to Mc Arthur, Essex-
best pen of pigs, first prize to Smith, second to Best pen of pigs, first prize to Smith, seond to
W . Bedford, Colchester. Jersey cattle, second prize to Wright \& Buttertield, Sandwich.
three prizes to W. \& J. Clark, Sandwieh.

A Sccemsple Breeber.-The young bull calf
"Cavalier," bred by Mr. Richard Gibson, of Ider Covalier, Ontario wh which was exhibited by the Bow Park Shorthorn Association at the Northern Ohio Fair at Cleveland last week, took the first prize in his class, heading the young herd and carrying off
all the honors of the Fair. Mr. Gibson sold "Cavalier" to the thow Park Association the week revious to the Fair.

Mr. D. W. Watrous, New York, has sold to the Board of Agriculture of Nova Scotia the Jersey bull Bon Hampton of Hillcrest 32-4, and hers Oriole of Hillcreat of hill

Messrs. Jardine \& Sons. Hamilton, Ont., have
old to Wm. Crozier, Northport, N. ling Ayrshire bull Robert Mars, which took the
first prize in his class at the Elmira (N. I.) Fair.

## ©lite apiary.

## Bee Notes.

In most localities all surplus honey-boxes should be removed from the hive before this date. The practice of leaving boxes upon the hive until late
in the eseason should be avoided, as they become
All unilled boxes should be in the season shoul. All unfilled boxes should be
soiled by so doing.
removed as soon as the yield of honey is over, and packed away for the following season's use
Combs containing honey in partly filled boxes ma be taken out and the honey drawn from them with the extractor, and the combs used for guides in boxes next season. If single-comb boxes are used,
the honey may be extracted without removing the combs.
Marketing Honey.- Where but a small amount of surplus honey is secured, it is usually best to dispose of it at a home market. Ind requires less
attention in packing, and, as a rule, will bring a better price. Large quantities will necessarily be
shipped to a city market. The provision of a proper package for transporaas should hold from 1 box honey the shd pay be neatly made as follows The size will depend upon that of the boxes to be packed; basswood lumber is most suitable; cut
two pieces, $\frac{3}{4}$ or $\frac{7}{8}$ in. thick, of proper dimensions,
for the ends.
At equal distances from the ends, and about 1 in. from one edge, cut a hole $\frac{1}{3}$ in deep for a hande. A top and bottom, and four strips 14 wide and of the grate, constitute the remaining material of the case. Nail together. Before
packing, boxes should be nicely cleaned from propacking, boxes should be nicely cleaned from pro-
polis, and care taken in every way to place the
tores polis, and care taken in end attractive package.
honey in market in a neat and
The boxes which each case is to hold should be The boxes which each case is to hod before pack-
placed upon the scales and weighed
With a little care in selecting boxes, fracing. of pounds in a case may be avoided, which is desirable. The net weight should be neatly
marked on the case.
EXTRACTED HONEY.- The quantity of placed upon the market is increasing each season, and finds ready sale in nearly every style of package, from jelly cups to casks holding 500
lbs. If fruit cans are used, let them be of some standard make, and pack them in crates of twelve each. Each san should have an attractive label,
indicating the quality of the honey. For the past indicating the quality of the honey. For the past,
few seasons we have shipped largely in tin cans, few seasons we have shipped At present the demand is for casks, or firkins, holding from 150 to 200
lbs. Such casks should be well made, and bound lbs. Such casks should be well made, and bound with wooden hoops, well coated with bees-wax in-
place, and the casks
side before filling. To do this they should be allowed to stand in the sun until they are quite warm. The wax shourd be applied quite hot.
Pour a quart into a cask, and cork up tight; then roll and turn it until every spot is touched, when
the unused wax may be poured out. The warmer the unused wax may be poured out. The warmer
the cask, the hotter the wax, and the quicker the work, the lesss wax will be required. Avoid filling the casks too full with cold honey, for if allowed o stand in a warm place,
Preparations for Winter.-All openings at the interior warm, which will tend to continue ing a larger number of young bees for winter Combs of honey from the heaviest hives may be changed for light ones in less prosperous colonies,
and each thus have a sufficient quantity of food fo and each thus have a sufficient quantity of food for
winter. Each hive should contain about 25 lbs. of honey. Avoid exposing honey, whereby robbing
may be induced. Where few hives are kept, the ifferent operations may be performed mornin and evening, when the bees are flying less freely,
and robbing will be less likely to occur. - L. C. R., in Am . Agriculturist.

We have a copy of the FARMER's ADVocat we are struck with wonder at the fund of valuable information it contains, and involuntary ask how many of our Eldom, Mariposa or Thorah farmer subscribe for this to them most valuable ofished in
zines. The FArmer's Aw,ocate is publis.
London, Ont, by Wm. Weld. It is a monthly at 1 a year, or 10 cents per single number. Each number is a treasure in itself to the fariner, and
when bound will make a volume invaluable. When bound will make a
Woorlville (Ont.) Adrocate.

## Zoultry yurd.

## Advice for the Season

We take the following from the editorial columns the American Poultry Yard:-
milk for fattening fowl.
What a different taste a fine, nicely and quickly attened fowl has, when served on the table, compared to one which has been forced to scratch for its living, and then is consigned to the spit in nything but a fit condition for food. Farmers reaize the importance of fattening quickly, when eding beeves for tho wh y hany with that kind of $m$ is equally true when applied to owls. Tenderness and juiciness are results of attening quickly, while mere ordinary Havor and want of tenderness result from le

## To enable one to fatten fowls

 accomplish the purpose best, and to this end weis aso unhesitatingly recommend plenty of milk in any
state, from fresh to thick. This should be fed in satate, from fresh to grick diet, for one counteract any possible deleterious inflaence of the other. I kept in a darkened place and fed unsparingly on
nilk, with grain in proper proportions, you will soon have something very choice to offer up on your tables to your friends, as well as to your family
When milk is fed, no water is reguired for fatten When mils.

## examine the combs:

It is the easiest thing in the world-when you nnow how 'tis done-to tell when your fowls are in
il-health, even in the incipient stages of any disease or ailment, if you but examine your flock to the working of its system. If they be in ill health, the comb will lose color, and become fa color decreases, till a very sick bird will show a comb almost devoid of scarlet, being of a livid, dull crimson, or else pale or ashy in appearance
If the cholera, or any other disease, should come If the cholera, or the flock, carefully examine the combs of each bird, morning and night, and all those which are wanting in that bright, rich co. or which de notes perfecereate, where they should at bnce be put under nemicical treatment.
The comb of a fowl is an honest index of the rrue inwardn ss, and should be daily consulted
the fancier who values the health and well-being of his flock. Look at the comb of a laying hen pullet: She is in theilig sign of healthfunness on her head, in the shape of a blood red, bright and full comb. A . vigorous cock or cockerel will carry
the same sign, though not, perhaps, in so eminent the same sign, though
a degree as his harem.

- to would-be buyers

We would say prepare to buy early in the shipping season, for you will then have a larger and better
lot of birds to select from than if you left your purchase until the winter or spring, by which tim most least the best of those they intend to sell.
Buyers save something in the feed lill by buying their birds late in the season, instead of carly in the fall, for they do not have count for much, as the prices of the birds are correspondingly highier, while the quality is generally inferior. Breeder
like to dispose of their surplus stock early, so as' to get their flocks in shape for the following year's
breeding, and to do this they are willing to make a concession in prices, and buyers should not be slow to see and take advancage ony, we thought we
Before viewing the thing carefuly
were making a considerable thing of it by putting were making a considerable thing of it by puthing
off our intended purchases until late in the spring, hat a little experience soon tanght us the fillay
of such a method. We therefore advise ou
W. patron a and readers to adopt the fall purchasing breeder can then give better care and sttention to, hose birds which are left, which he could not diffir
when he had large flocks of young chick of dind ent sizes and ages
time and attention

Wetcrinaw.

## Abortion in Cows.

The following is an extract from the Western Stock Journal:At the present time abortion is drawing the
attention of stock breeders, and although in other parts of the country committees have been ap pointed to investigate its canses, yet so far all
attempts to reach anything definite regarding the natter have proved futile, for the causes are seem ingly so various and diverse that at best but a
general outline of them, with suggestions as to its prevention and cure, can at present be given, leaving each of our readers to carefully consider thes causes and, if possible, adopt a remedy for eac particular case.
The causes are numerous, the principal of which on fences, ice, \&c., inflammation of the bowels indigestion, diarrhea, plethorea i. e., high bodily
condition; breeding too young, irritating poisonou food, over-feeding; hot, ill-ventilated barns--espe cially the basement stories-damp, musty food,
want of proper exercise, decomposing animal mat-ters-especially the afterbirth of a previous abor-tion-proximity to slaughter houses, butcherin pens, mput of maize \&c. \&c. grains grasses an Abortion generally occurs between the fourth and seventh months of the period of gestation,
usually ocurring about the sixthor usually occurring about the sixth or seventh month The symptoms are a whitish muco-purulent dis-
charge from the vulva, springing of milk with weak flaccid condition of the external generative organs.
Treat Treatment.-Remove any and every cause that
exist. If the animals have been highly fed, give a sparer diet, with more outdoor exercise. Drain and properly, but thoroughly, ventilate the stabie. disinfect the premises by sprinkling with a dilute Whation of carbolic acid, or with chloride of lime. Whitewash the stables, and keep everything scru-
pulously clean. Separate the affected or suspious animals from the herd, and keep them entirely isolated from the others. A void any sudto one of a more laxative nature, as the juicy, succulent grasses of spring, for any sudden change is ther canses that may be present, will strongly tend to influence an abortion.
When the herd is attacked, give one-half ounce loses of chlorate of potash daily, dissolved in
water. If the animals are in an emaciated condiion, a course of tonics is indicated, and the followng may be given in their feed twice daily

Sulphate of Iron...... 2 drams, Troy
Pow lered (ientian
Powdered (iinger
If constipation exists, give mild laxatives.
A Hint for Canada.
The milling industry of this country is said to
rank next to that of iron. The number of mills is over 25,000 , affording employment for over 600 ,010 men, whose annual wases are abont $\$ 20,000$, 10, and turning out yearly about $50,000,000$ bar-
els of flour, of which $4,000,000$ are exported to foreign countries.-Am. paper. The late rapid growth of the steel manufacture gures-- In 1873, 129,000 tons of steel rails were made; in 1877 , of steel yoods and the product of steel there is a
steady aivance. The Dominion may, in the good time co
boast of her progress in industrial pursuits.
The Farmer's Anvomate.-It is gratifying to see that with the improvement and growth of this country, and the growing wealth of our farmers, gricultural journals are deserves more encourage ported. She Abvocate which is pub Hshed in London ly Mr. Wim. Weld. It is a Candian enterprise, is admirably conducted, and should le in the hoase of every ('anadian farmer.
The content: are particularly varied, interesting The content: ar


Notice to Corrrspoxdrests. -1. Please write on one sid of the paper only, i.10e, not necessarily for publication, but as guarantee of good that course seems desirable. 3. Do not expect anonymous communications to be noticed. 4. Mark letters "Printer tounoe.

Manitoba:
SIR,-Would you oblige me with space for a few lines in one of your columns for a few words relat ing to some facts about Manitoba and the North-
west. There is a far better country in the North west than there is in Manitoba. In fact, I believe there is as good in parts of ontario as there is in there is in Manitoba and the North-west. The
farme;s of this part said it would make some of the Ontario farmers stare to see a hundred-acre field of wheat growing. There are a good many
of them here, but they cannot raise such crops as they talk about. There are very few farmers tha
get over twenty bushels of wheat to an acre, and get over twentry to seventy-five cents per bushel Some of them have to draw it from one to two hundred miles to get that price; so the farmers of
Ontario can judge what it costs to haul grain to Ontario can judge what it costs to haul grain to
market where twenty bushels of wheat would be a big load for a span of heavy horses. It is dan-
gerous to stir out here in the winter at all, the gerous to stir out here in the winter at all, the
storms get up so quick; and in some of these storms get up so quick; and in some of these
storms persons being only three or four acres from their d welling-place could not reach it, and prob-
ably never would reach it alive if caught in a very ably never would reach it alive if caught in a very
bad storm. I don't know much if a small average and a big price is not better than a large average and a very, very low price. Besides, there is far
more comfort in Ontario than there is in this part. more comfort of this country say there nothing to do in the winter at all; but there is plenty to be done if they were not airaid they strefer stopping in the dangerous to go out they prefer stopping in the
house. Farmers that have to draw their building timber twenty and twenty-five miles, also their wood and fence if they were not afraid to put out their nose. There has been a great deal of false printing done in the papers about this coun-
try. There has been a great number deceived it, thinking they could start with a small cap,ital, it, thinking they conuld start with a small capital,
and they have been badly deceived. A man to
and start farming in this country wants at least $\$ 1,000$.
He need not depend on making anything by ing out, for if a laboring man keeps himself clear in this country he does very well. A person to
read the Manitoba Free Press would think it was read the Manitoba Free Press would think it was
increasing about ten times as fast as it is, Farincreasing about ten times as fast as it is. Far-
mers, don't mind what the papers say, but if you have a notion of coming to Manitoba, come and see it before selling out your places, and if you have a
comfortable place in Ontario I am sure you will be satisfied to go back and live on it. But there are plenty of farmers in Ontario that have mortgages
on their places and cannot redeem them. It is the best thing they can do to try their luck in some
other place ; but, friends, bear in mind that other place; but, friends, bear in mind that
Manitoba is a very bad place for a man to come to without money enough to start farming, and then he wont make anything for two or three years. my advice would be for you to stop there and not [All cannot be satisficd in any place, and no
doubt Manitoba has some drawbacks. This, we are glad to say, is not the general opinion of set Ners. No doubt it will meet with a response
from other of our readers in that part of the pominion. We wish to publish facts about the
country that will give our readers correct opincountry that will give our readers c
ions in regard to that rast territory.]

How to Keep Apples in Fiavor. SIR, - "M. B. C, Walkerton," seems in tronble
about kecping apples for late" winter anil spring
use. I have tried several ways to keep them, but to have an apple in the spring with that delicions
tlavor that a summer or fall apple his that hangs
 difitoult points T have ever tried to make.
ever, herei is $m$ H plan, which
Has some the nearest
 away in dry forest leaves or. any leaves that are
dry like them when gathered in octobere or Novem
 hard wood iis eetter to make the boveso of than
pine, for apples will take ona a bail thavoralmost as quick as butter); lay a layer of leaves and a layer
of apples till you fill the box or barrel, having leaves enough to keep the layers of apples apart. ver the box or head up the barrel tight, and you winter, if you choose, only do not open them to the air in freezing weather. If they are put in a cellar, so as not to freeze, the temper
be low, or they will mature too soon.
1 kept Tallman Sweets last winter in this way, in an out-building. When the warm weather came in March I opened them, took out all affected and I had most delicious apples till June. E. T. M., Vienna, Ont

SIR,-I planted a small piece of sorghum this season for the purpose of trying to make syrup
from the stalks, but now that I have it from 9 to 10 ft . high and in bloom, I am at a loss when to cut it. I am well satisfied with its feeding quali-
ties for stock', but want to try it for syrup. When ties for stock, but want to try it for syrup.
should it be cut and how should it be pressed?
J. A. T., Blessington, Ont.

CIIt should be cut before it hardens its seed. Mr. C. W. Wellington has a press
write him for full particulars.

Sir,-The threshing machines are making their
nnual rounds, and the result is better for them than for the farmers, as the length, and, in many places, the dampness of the straw, render the time longer than usual. For the most part, throughout the county of Grey the fall wheat has turned out cept here and there, where, owing to local circumstances, the seed was sown early-say in March.
Some farmers who trusted solely to the Glasgow wheat will not have theirbread-corn for the winter One farmer of my acquaintance, finding the crop it in this fall, and thereby restore to to the land the
plant-food taken from it. The other varieties sown in this part of the country are principally Red
Chaff and Genessee; of the two the Genessee has yielded the best, the Red Chaff being seriously in jured by the midge. The Clawson has stood bet Turnips have been eaten up by the grasshoppers Slugs are unusually numerous; our early cabbage ther applied dry or in the shape of strong pickle had no effect on them. If windfalls (apples or pears) are allowed to remain on the ground over
night, they are found covered with slugs the next morning. One farmer, I am told, had every green thing in his garden destroyed by them. We have
had no potato blight in this part of the country hat no potato blight The potato beetles were as numerous as ever. The crop is likely to be a fair
one if we are favored with fine weather to save it.

SIR,- -1 have gained a great deal of information know cannot be paid for in ingold. I have great
faith in your motto, "Persevere and Succeed" have remarked that you always redeem your have resarked that you aw ways redeem your every year in your paper; and I think you mean
to keep up with the times. to keep up with the times.
At first I could not see big prices for good animals, but what I monthly saw in your paper caused me to consider the mat in farming depends upon it. I have found that inproved animals, like improved vegetables, are
less hardy, which is a great drawback requiring more and coustant care and attention, but, not-
withstanding all this, I know the profit lies in the improved breal
1 bought one
1 bought oue pound of Burbank's seedling pota-
toes a year ago last spring, and I raised two els from them the firet crop, and I feel satisfied


Canadian Implements in France. Paris, France, Aug. 26, 1878.
Dear Sir,-I have much pleasure to inform you that the Meadow Lark Reapers have not only
given good satisfaction, but have already estab given good satisfactiorance. Your machines are
lished their name in Francer the only ones that have taken the eyes of the hibicultur, and where they are now introduce ex hibition, and where they are now introd machines
given the preference over all the other mater in use in the district.
Yours truly,

Yours truly,
[John Elliott conducts the largest agricultural implement manufactory in London, Ont. He is promises to be of advantage to our country. In reapers and mowers alone he has already sent out 700 from his works the présent season. His im-
plements have a good reputation at home plements have a good reputation at home, and
are gaining the highest awards in other countries.]
$\overline{\text { Oshawa, Sept. 9th, } 1878 .}$
SIR, - Of the phosphat yon as possible as I wish to use it on fall wheat at the rate of a ton for four acres, leaving four acres without any,
so that I will be able to note the difference. My experience of the result of the phosphate I pur-
chased from P. R. Lami \& Co. last spring has been cery satisfactory. Lamb \& Co. last spring has been very sat hacterte. The turnips and carrots are
not yet harvested. On the potatoes it more than noubled the yield, and gave a nicer sample. On wheat 1 got fifty-eight bushels from one sown. filled out. I drilled in the wheat and hoed it using about eight hundred pounds of phosphate to the acre. About firt, en bushels from one sown is all the lan produced without the phosphate. than mauble the roots growing in adjoining rows without the phosphate. The turnip crop is not far enough
advanced to give any report. On fodder corn it pushed forward the crop at a greater rate, some of the stocks now measuring nine feet in height. It
was sown on the 10th of July, some being the small yellow, which seldom atain the height of nine heet-the amount of phosphate used being
five hundred pounds per acre. On potatoes I used about four hundred poonds per anre, scattering by am well satisfiec. The phosphate paid.

Yours, very truly, John Bartletr,
Oshawa, Ont.
SIR,-We have finished our harvest, and most the spring wheat having almost proved a failure. acre. The Glasgow, in particular, is very poor; ny neighbors who sowed Redfern̄, and one who sowed 10 bushels has threshed 100 .
But fall wheat has done well-from 20 to 35 and Tread well. The kere will be a great deal of wheat sown this fall. Peas and oats have done well. Barley not much grown, and about half a promise well. Apples are a good crop; plums not promise well. Apples are a good crop; plums not.
half a crop; grapes are late, owing o spring frost.
D. S., Presquile, Ont.

Sir, - I hear nothing nowadays of Carter's
Ditching Machine. Has it failed to realize all that was expected of it? Rome American ning from $\$ 30$ to $\$ 60$. I think there are several undred more that could be spared, and that withR. M. J. B., Dunville, P. Q [The ditching machines are not coming into op-
ration as rapidly as was expected. Some have een used to advantage. Mr. Carter, of Aylmer, Ont., might furnish you with full particulars about A. S, of Blair, says we recommend certain artimuch, and asks if it wonld be a good plan to sow plaster after the wheat is sown. We have advised hey increase the crop more than enoucg to pay they increase the crop more than enough to pay
the extra cost, and thus are profitable. Plaster (which is a fertilizer) may frequently help the phuric acil, and cannot supply nitrogen, phosphowic acid, and potash, which are generally most useful
Plaster is, on to wheat, particularly the first two. Plaster
very many soils, very beneficial to clover.

Provincial Exhibition Prize List.
$\qquad$
spgelal frgmivus.
The Council of the Association having received an offer on
3500 from the citizens of Toronto, to be approprited foe special premiums, has acceptted such offer, and addeod the sum of 8500 , maki
follows, viz. :
Section 1-Tharough-bred Horses- 1 stallion and 3 fe-
males of of any age; pedigrees to be prodnced; unde-
cided









ass il -ROADStrR horses for driting, or the saddle, 15
Best stallion, 4 "ears old and upwards, Douglas \& Wells,
And Aurora. .utz, Hagerman
Sra do Badgerow \& Miller



 2nd do, John Proctor, Nellson
Srd
Best to stalionen of reyen, Durham

nd do, Wo Phanaler,' Seaton village
rd do, John Raoch, Toronto.




nend do, FW Wtone.
3rd do, $J$ Addison.
t pair matched horses (geldings or mares) in harness.
nd do, Mackie \& Reid, Port Hope
3 ser do, Jas Scanlon, Tatten ham. .... ..................
Best single horse ( gelding or mare) in harness, J Palmer, 2nd Ro, H F Lutas, Toronto
Srd do, Doug Ias 4 Wells...t.
 wards, to be over $15 \pm$ hands.
Best stallion, 4 yearb odd and upwards, John Leur, Maple..s 40
nnd do, J Eby New Hamburr........... ........... 30
 Mid do, J L Baikey, Prikeriily aliker, stoiney Creek











2nd donf Johu soyne, Drumarket.i...
Best Peter Fillman, Benton towishipip...............
Best sunte earriage horse (gelding or mare), in harness, it
M Birut Toronto
2nd do, J Whatenenl \& Son, Richiond Hill.
Srid do, $J G$ Snifer, Toronts.




 Best b
2nn
3nd do
3rd do
$\qquad$ Best cow, James Russell.... Stock Asociation
2nd do Canad West Farm
3rd do, Canada West
Barm Stock Association.



2nd do, canada west Farm Stoek Association..............
3rd o.
Best heiferes Rusel y year old, Canada West Farm Stock Associar
tite


3rd do, JDavidon \& Son.... Oia, brea dand owned bo the
Best feve calves under 1 year
Bostibitor, Canada West Farm Stock Asseciation.


SHEEP-LONG-WOOLED
class xv.-corswouds.





## Best ram, 2 shars and over, H Snell \& Son, Clinton...... 822 enit

## 








SHEEP-MEDIUM-WOOLED
Best ram, two shears and over, H Spencer, Whitby
2nd do, D Perley, Paris.










 2nd do, George Denoon, Etobicoke.

pigS-SMALL breeds.
Cuss xxi-malrroved krkrsulurs.

2st hoar, over 2 years John Snel's Sons.

Srd do, John Roach, Toronto......................
Best ban, over 6 months and under i2 months, A A Mc-
Arthur.

 ation, brantiords.
2nd do, John Snells s Sons.
Srd
Best sow, over Sell 1 year sand



large brebds.
Best boar, over 2 Years, Geo Welldrick, Thornhill. . . ....815
2nd do, Geo Weldrick, Thornhill. . 2 .







chass xxvi-chickrss, decks, kтc., 1878.























| Six varieties of fall cooking apples, named, 6 of each, A M <br>  <br>  <br> nd do, Geo Leslie and Son...................................... <br> 2nd <br> M Smith and Co <br> nd do, Geo Leslie and 3rd do. John Gray <br> 2nd <br>  <br>  <br> Thre Colle <br>  <br>  <br>  <br> each, correctly nams, 2nd do, Geo Lesliê and Son............................................ Three varieties grapes, any other color, 2nd do, John Holder. ..................................................... bunch of each sort, correctly named, Joh....................................................... <br>  2nd do, Geo Leslie and Son........................................ Three varieties white grapes, grown under glass, John Holder.......... <br> John Holder..... any other color, grown underglass, Jona <br>  <br> 2nd do, Geo Leslie and Son.......................................... Heaviest bunch black grapes, any other kind, grown <br>  Heariest Gray <br> 2nd do, John Holder .......................................... Display of fruit, the growth of exhibitor, other entries, 3 specimens of each under glass and in open air, Geo Leslie and Son..... Collection of one dozen each of 6 varieties of crabs, culti vated, Geo Leslie and So 2nd do, A M Smith and Co. <br> class xxximi- - Frtut (Continued.) |
| :---: |




 pection. plas, pracues, orarps, etc.









## ghtimic edtay's 젱prartment.

My Dear Nieces,-We have seen some familie so intensely practical, and have such a high re devote all their attention to the matter-of-fact necessities of life, to the exclusion of its luxuries -forgetting that there are other things besides food and drink, house and raiment, which are needed if we would not only exist but really live. At all events, is is certain that there are comparitively few persons who might not, with ad-
vantge, cultivate the fine arts more than they dovantge, cultivate the fine arts more than they do-
music for instance-how much more of it we might have in our homes, to advantage,-it would enliven the monotony of some homes where existance now is a mere treadmill. Dear nieces you must remember whatever can help to make home attractive, and to strengthen family ties should be sought after as a great good. Music in a family accom. plishes this in an eniment degree-an hour or so spent daily together in musical recreation will be the happiest time of the day, and always will be a
sweet rememberance of home. How many parents sweet rememberance of home. How many parents have had occassion to lament in after life that dur-
ing the youth of their children they did not make ing the youth of their children they did not make
the necessary efforts and sacrifices to render home ttractive, and so lost the benefit of cultivated ffection, and incurred the great evil of baneful amusement from away found home. We have no sympathy for the well-to-do father who declares that the best piano forte for his daughters to play upon is a sewing machine or a washing machine. These are good in their places and for their pur-poses-but an organ,a piano forte, harp, or guitar has a higher mission and usefulness. Minnie Mat.

## RECIPES. <br> spickd apples.

Eight lbs. of apples, after being peeled and
cored, 4 lbs. of sugar, lat. vinegar, 1 oz. each of cored, 4 lbs. of sugar, 1 qt. vinegar, 1 oz. each of
stick sinnamon and whole cloves. Boil the vinegar sugar and spice together, then put on the ap-
ples and boil till tender, take out the apples and ples and boil till tender, take out the apples and
boil the syrup till thick, then pour over the apboil th
ples. One peck ripe tomatoes; wipe them clean, tak-
ing out the staks; boil one hour with five red pep-
pers; then strain them through a colander, rubbing pers; then strain them through a colander, rubbing
well through with your hands. Add half a pound of salt, three tablespoons black pepper, one ounce
root ginger, one ounce allspice, one ounce cloves; root ginger, one ounce allspice, one ounce cloves;
the spices must be unground; three large onions; then boil for one hour and strain through a colan-
der; when cold add cte-quarter pound mustard
and one-half pint best vinegar. Bottle for use.
yellow pickie.

To each gallon of vinegar take a quarter of a
pound of brown mustard seed, two ounces of long pepper, two of black pepper, two of garlic, one of tumeric, quarter of an ounceo of mace, half a pound
of salt and a few roots of horseradish. Let the salt and spice be well dried, and put them into the vinegar cold. Gather your vegetables on a dry
day, strew over them a little salt, and let them day, strew over them a little salt, and let them
stand two or three days; then put them on a hair
Put sieve, either in the sun or by the fire, to dry. Put
them in a large jar with the vinegar, and let them stand by the fire for ten days; it must not, how-
ever, be allowed to become any hotter than new ever,
milk.
sweet pickles.
Twelve pounds of fruit, six pounds of sugar and Let quart of cider vinegar; cloves and cinnamon. put carefully on a dish, let the syrup boil down, jars and seal with tissue daper dipped in white of egg.
pressed chicken.
I have noticed when traveling on the cars that
many of the passengers who carry their lunch gen.
here is no objection to the fowl itself, but there i
to the shape in which it is often taken. Whe there are so many good recipes for "pressed" and not be carried. I was once obliged to occupy a eat on the cars with a stranger, who entertaine of a fowl. At the same time another person who at directly opposite was engaged in the like occu
pation. If chicken be prepared according to the accompanying recipe, travelers need not be aware young fowl and put it in a kettle, with one coffee young fow and puter. Sprinkle with salt and pep
cupful of cold water
per, and cover closely. When tender, pick the meat off the bones, and chop into bits, the size of peas, and pack in a quart bowl. Thicken with
four the little juice that remains in the kettle, and wour over the chicken. Put a plate on it while necessary to cook the fowl in but little water, pressed chicken until the day after it is made Place thin layers of it between thin slices of bread and press firmly together.
separating, like sandwich
peach marmalade.
Peaches too ripe for preserving answer for mar-
Pare and quarter them, allowing three narters of a pound of sugar to each pound of fruit, and half a a pint of water to each pound of sugar.


Celosia Cristata-( Fire-feathered).
The Celosias are interesting and singular an-
nuals, and when well grown from seed of good quality never fail to please the grower and attract grown in pots for floral exhibitions, and also for table decorations, but in most parts of America they grow so freely in the open ground that this
treatnent is not at all necessary. There are several treatinent is not at and necessary. being very hand-
varieties of Celosias, the above beat
bet some, producing the greatest protusion of beaus. If
feathers, like plume-shaped spikes of flowers. If fathered when young, they are valuable for winter gouquets. They grow freely in rich, loamy
bucceed best when started in a hot-bed.
peach jelly.
For a table ornament nothing is more elegant.
Dissolve in sufficient dazen large peaches and pare
$\begin{aligned} & \text { strain i, } \\ & \text { them; make a syrup of one pound of fruit sugar }\end{aligned}$
$\begin{aligned} & \text { them; half a pint of water. Into this put the } \\ & \text { and }\end{aligned}$
peaches and kerrut, on a plate and cook the syrup
ten minutes longer; add to it the juice of three
$\begin{aligned} & \text { lemons and the isinglass. A pyranid mould is } \\ & \text { very pretty for this, Fill part full of jelly, and }\end{aligned}$
$\begin{aligned} & \text { very pretty for this. Fill part full of jely, and } \\ & \text { when set, put in one-quarter of the peaches. }\end{aligned}$
$\begin{aligned} & \text { Place on ice and let it harden; aad more jeny, } \\ & \text { harden, etc., until full. Let the base of the mound }\end{aligned}$
$\begin{aligned} & \text { harden, } \\ & \text { be jelly. }\end{aligned}$
L. R. baking powder. nd make It she cannot purchase materials she can. The following formula is taken from tely Scientific American: Powder and dry separ. tely by gentle heat one-half pound tartaric acald,
three-fourths of a pound of pure bicarbonate oda and three-fourths of a pound ot potato farina Mix dry, pass through a seive, and preserve froni ar and moisture. Stuffed cabbage $^{\text {and }}$
Cut a large fresh cabbage in two and take out
the heart: fill the vacancy with sutfing cooked chicken or veal, chopped very fine, highly seasoned and rolled into balls with yolk, of egg
Tie the cabbage firmly together and boil in a cover Tie the cabbage firmly together and boil in a cover
ed kettle two hours. This is a delicious dish and is $u$ eful in using up cold meats. Mrs. W. A. C. anned grapes.
aut breaking. Allow a little more than a quarter out breaking. Allow a little more than a quarter
of a pound of sugar to each pound of fruit; for each
can of fruit make a syrup with about a quart of on of fruit make a syrnp with about a quart on
can on on
water, and allow the fruit just to boil in it water, and allow the fruit just to boil in it. Put
the grapes into cans before they crack the grapes into cans before they crack open, anc
seal them tightly.
JoHNNIE. rice jelly for the sick,
Mix three-quarters of a pound of rice with one-
half pound of sugar, and cover with water. until it becomes thick, then strain and flavor to suit. Give it when cold.
Pigeon pie.

Make a fine puff paste; lay a border of it around let, or a very tender steak free from fat and bone season with salt, cayenn $\sim$ pepper and mace, Pre-
pare as many pigeons as can be put in one layer of pare as many pigeons as can be put in one layer of the dish; put in each pigeon a small lump of but-
ter, and season with pepper and salt; lay them in the dish breast downwards, and cut in slices a
half dozen of hard boiled eggs, and lay in with the birds; put in more butter, some veal broth, and
cover the whole with crust. Bake slowly for an cover the whole
hour and a half.
steamed bread and butter pudding
Place slices of bread and butter in the bottom of a pudding dish, a layer of sliced apples with sugar
and nutmeg, another layer of bread and butter then one of apples, sugar and spice until the disll is full, having bread a.d butter at the top, but-
tered side down. Cook thoroughly in astean ve.ar-butter. Miss E. D.
This may either be used as soon as made, or put This may either be used as soon as made, or put
away for winter use, and will be found to have a
richer flavor than apple-butter, and more lively richer flawor than apple-butter, and more ilvely
than peach. The knotty, imperfect fruit can le used, of every variety exceppit into small pieces, re-
is too moving the core, skin, and all imperfections; allow a guarter of a pound of light brown sugar to each
pouid of the fruit, and half a pint of cold water to every two pounds of the pears; do not add the
sugar until they have cooked an hour or so; then sugar until they have cooked an hour or so; then
put it in, with a quart of cider to each two pounds put it in, with a quart of cider to each two pounds
of sugar, and let all cook very slowly untila a
marmalade which will he in four hours. If it marmaladeo which will lee in four hours. If
seems too dry while cooking add more cider
to Pifkle oniong.

Select small silver-skinued onions, remove with
a knife the outer skins, so that cach onion will be perfect'y white and clean. Put them for three
days into brine that will float an egg; bring vinegar to the boiling point, add a little mace and whole peppers, or sprinkle with cayenne, adding bits of horseradish aver the onions, first draining the n
pour it hot over pour it hot over the.
well from the brine.

Carpet Sweeper:
M. R. S. asks concerning the value of carpet sweepers as labor saving inventions and if they are
worth the money they cost. As labor-savers carworth the money they cost. As labor-savers car-
pet sweeps are deserving high rank: they remove pust and dirt from the floor without creating any
dust in the air and thus saving the labor of dust. ing the room and the annoyance and unwholesomeness of the clouls a broom raises. They are easier
to use than a broom; in fact to one unaccustomel to have a carpet sweeper, it becomes a necessity,
and is fully worth the three dollars it costs, for it lasts with care for years and worn parts may be renewed at trifing expense. We have a sweeper
and couldn't be persuquld to try to get along with. out one.

That Boy. by georae cooper. Is the house turned topsy-turvy?
Does it ring from street to rqoof ? Will the racket still continue, Spite of all your mild reproor?
Are you often in a fluter?
Are you sometimes thrilled with jo Are you sometimes thriled with joy
Then I have my grave suspicions,
That you have at home-that boy.
Are the walls and table hammered?
Are your nerves and ink upset? Are your nerves and ink upset?
Have two eyes so bright and roguish, Made you every care forget? Has your garden -bed a prowler,
Who delights but to destroy These are well known indications
That you have at home -that boy.
Have you seen him playing circus
With his head upon the mat, With his head in mid-air twinklingDo you ever stop to listen, Do you ever stop to listen,
When his merry pranks annoy-
Listen to a voice that whispers, Listen to a voice that whispers,
You were once just like-that boy
Have you heard of broken windows.
And with nobody to blame? And with nobody to blame?
Have you seen a trousered urchin Have you seen a trousered
Quite unconscious of the same Do you love a teasing mix
Of perplexity and joy?
Of perplexity and joy?
You may have a dozeu daughters,
But I know you've got-that boy.

## Sermon to Girls on Cooking.

Good advice to girls and boys is always abundant, and, we may add, a cheap article in th market, and perhaps this is one reason why it
not more frequently heeded by those in need of not more frequenother excellent piece of advice to girls, taken from a religious paper Cooking classes have been popular among young
ladies of late years. But there is no cooking clas which quite equals in opportunity for excellent in suming that I am talking to a girl who has just left school, I advise you to make use of your leis-
ure in taking lessons from your mother. There is ure in taking lessons from your mother. There is
an absolute, splendid feeling of independence in knowing how to make light, sweet, substantial bread. Then try your hand at biscuit, muffins, which breadstuffs may be blended. Toast seems a simple thing enough, but it does not deserve the name. Gruel, a necessity of the sick room, is
often a hopeless mystery to women whohave not the often a hopeless hystery it evomed from the raw ma-
vaguest idea of how it terial. After you have mastered the bread question, try meats and vegetables. Any bright girl
who can comprehend an equation or formulate a syllogism, can overcome the difficulties which beset her when learning to cook. Lucent syrups, golden cake, delicately browned bread, quivering
jellies, melting cream and the whole set of material things glorified, because made for love's sake, and
for the good of one's dear ones, are fit expressions for the good of one's dear ones, are fit expressions
for any woman. The charm of this accomplishfor any woman. The charm of that it imparts to its owner a gratifying sense of power; ; it bestows on her, too,
the power of blessing and resting those she loves best. Wherever the cook goes she takes her wel-
come along. One may tire of the sweetest singing of the lovelist poetry, of the finest painting, and
of the most witty conversation, but of good cook. of the most
ing never.
Yet I would be sorry to have you content to be
ply a cook, only a domestic machine. That is only a cook, only a domestic machine. That 1 ,
not my meaning or intention. Be artist, poet, in. a matter of couse, ability best you can, and add, as a mole that good house-
to keep house well, and do all
keeping includes.

Wait, husband, before you wonder audibly why
your wife don't get along with the househol your wife don't get along with the househol
responsiblitities "as your mother did." she is doing her best-and no woman can endure ear niest to be slightert. Remember the ong, wear
$\left\lvert\, \begin{aligned} & \text { remember the love and care she bestowed upon } \\ & \text { you when you had that long tito till ilness. Do you } \\ & \text { think she is made of cast iron? Wait-wait in } \\ & \text { silence and forbearance, and the light will come }\end{aligned}\right.$ think she is made of cast iron. light will come
silence and forbearance, and the a
back to her eyes the old light of the old days. Wait, wife, before you speak reproachfully to
your husband when he comes home late, and weary, and "out of sorts." He has worked hard
for you all day-perhaps far into the night ; he for you all day-perhaps far into the night,
has wrestled hand in hand, with care, and selish-
ness, and greed, and all the demons that follow in ness, and greed, and all the demons that follow
the train of money-making. Lethome be another
atmosphere entirely. Let him feel that there is atmosphere entirely. Let him feel that there
no other ple no other place in the world w.
and quiet, and perfect love.

Selecting Meats.
In sclecting beef to roast, if it be for a small
family, the rib is by far the best and most tender family, the rime of the bone removed, then make
cut; have some of the
your butcher skewer the beef. The best beefyour butcher skewer the beef. The best beef-
steak for breiling is porter-house. The best beef steak for breiling is porter-house. The best beed
for a la mode is the round; have the bone removed,
and trim off all the gristle. For corned beef the for a la mode is the round, have the bone removed,
and trim off all the gristle. For corned beef the
round is also the best. For a mutton roast choose round is also the best. For a mutton roast choose
the shoulder, the saddle, or the loin and hanch.
The leg should be boiled. Small rib chops are the the shoulder, the saddle, or the loin and haunch.
The leg should be boiled. Small rib chops are the
best for broiling; those cut from the leg are generally tongh. Mutco cutlest to bake are taken
from the neck.: For roast veal the loin, breast, from the neck. For roast veal the loin, breast, or
shoulder is good. Veal chops are best for frying ;
cotlets cutlets are more apt to be tough. In selecting beef
take that which has a loose grain, easily vieldin take that which has a loose grain, easily yielding
to pressure, of a dark red color, smooth, with
whitish fat; if the lean is purplish and fat t , yollow to pressure, of a dark is purplish, and fat is yellow
whititsh fat, if the lean is
it is poor beef. Grass-fed is the lightest, ox the it is poor beef. Grass-fed is the lightest, ox the

best, and next the heifer. Perhaps the nicest mut| $\begin{array}{l}\text { best, and next she heler, the bone taken out, and } \\ \text { ton roast is a suall lea, } \\ \text { the cavity stuffed with forced meat. The best beef }\end{array}$ |
| :--- | the cavity stuffed with forced meat. The best beef

roast is (for three) about two and a half or three
reands of tor pounds of porter-house. Sirloin ranks nexd.
rump roast is very nice. Two or three poinds a great plenty for three. In chops, I think that
from the hind leg of mutton best, unless you can get a "meaty" sirloin.... The same in pork; about
one and a quarter to one an a half pounds is sufficient; beefsteak about the same quantity.
porter-house is cheaper than sirloin, having less Porter-house is cheaper
bone. Rump steak, and round, if well pounded to make them ten.
field Republican.

Chairs to Mend!"
The art of doing small things well has a good
Tustration in the humble chair-mender of the London streets, who is also one of the most inter-
sting of out-door tradesmen. esting of out-door tradesmen.
He carries all his implements and materials with
him. A very much worn chair is thrown over one arm as an advertisement of his occupation, and it is needed, for his ery, "Cha-ir-s to men-n-nd," is
uttered in a melancholy and indistinct, though penetrating, tone. Under the other arm he usually has a bundle of cane, split into narrow ribbons. His look is that of forlorn respectability; his
hat is greasy and mapped with so many veins caused by crushings, that it might have been used as a chair or, at least, a foot-stool ; around his neek he wears a heavy cloth kerchief, and his long coa
of by-gone faslion reaches nearly to his ankles of by-gone fashinen reaches nearly to his ankles,
which are covered by shabby gaiters. He walks along at a very gentle pace and scans the windows
of the houses for some sign that his sevices are wanted.
Perhaps business is dull, but in the neighber
hoods where there are pretty sure to find some work. Cane-seated chair usage of those little boys and girls who treat them as step-ladders and stamp poon them. It often happens that a neat Engish house-maid appeans and
the area railings with a chair that has a big, ragged hole in the seat, through which Master Tommy has
fallen with his boots on, in an effort to reach the fallen, with his boots on, in an effor
gooseberry jam on the pantry shelf.
gooseberry Tommy probably looks on while th Naster tommy probably looks on while the
repairs are being made, and in much interested by
the dexterity with whch the mender does his work. The old and broken canes are cut a way, and the
new strips are woven into a firm fabric, with little new strips are woven into a firm fabric, with little
eight-sided openings left in it. The overlapping ends of the ribbons are trimmed with a
knife, and the chair seat is as good as new. It seems so easy that Tommy thinks he
have done it himself; but when he experiments
finds that chair-mending is really a trade that finds that chair-m Some chair-menders are blind men, and it is The plaiting of the canes is done as uuerringly by their unseeing fingers as by the men who can see,
and with wonderful quickness. Occasionally the nd with wonderful quickness. Occasionally the
business is combined with that of basket-making, and should we folluw poor old "Chairs-to-mend"
and seor home, we might discover his family busy weaving
reeds and willowy branches with the same cleverness the father shows in handling the cane
Alex. Wainuright, St. Nicholas for October.

Boxes on the Ear.
The blindness of the late King of Hanover was occasioned, it is understood, by an accidental and
by no means violent blow upon the eye. Scarcely y no means violent blow posses, we believe, without tome ese schoolmaster or schoolfellow in natural imitation of his master)
(or "iving a lad a smart "box" upon the ear.' Few giving a lad a smart "box" upon the ear. Few
persons would be bold enough to choose this part peon which it was expedient to inflict a violent blow
by way of moral education, but there is apparently by way of moral education, but there is apparently no end to the numbers who select an organ upon
which violence is liable to be attended with much more dangerons results. For not only is deafnes cansed by "boxes," which ruptures (as they con mation of the internal cavity, which is so frequent a result, may be followed by diseases of the bone giving rise to absess on theal men alone can be fully
fatal termination. Medical aware how fruitful a source of suffering and dange is represented by the box upon the ear. There are for example, under observation at the presen
noment two schoolboys who have been the victims of such an assanlt. Surely schoolmasters ought to have learned, long ere this, the danger ently usurped personlace of others which, if more disgusting were not attended with an equal amount peril.-Lancet.

This, I Whisper.
You all know as well as I do that a white nubia never looks well after it is washed, no matter how
carefully you toss, and touch and puff it up in your caretuly you toss, and
palms in the foam-white suds. Well, a lady told me a secret one day last week, and said y
never, never tell it, but I hurried and changed the conversation, and thus dodged a promise that conversation, and thus dodged a
otherwise would have been binding.
And thisis the secret, that you can keep your,
nubias, and soft white fleecy wear, including babies' nubias, and soft white fleecy wear, inclusing babies
saques, clean and nice without washing. Just saques, clean on them and pat it in between your hands, and then sprinkrenling over enough to cover quite well. Let then lie eight, ten or twelve hours, and then lift them and, shake off lightly the flour an admirable plan. The tassels on nubias thus preserve their wonderful lightness and fleeciness. There is a great deal of poetry in a dainty white flake of a nubia, and
to hear this as I was.
Well-there now ! women musn't tell me secrets, that by right of our womanhood belong to every
mother's daughter of us. I never could hide a good story, or keep
behave and not laugh.
Another item of news. One of the prettiest plumes that ever nodded, I saw lately, and it was mate py the young la - the kind used in making old adies' caps-and sewed upon it the tips of those rich bronz
indeed.
Nodding feathers of this kind are pretty for ppro sparking brunettes. They seem speciair haired blond something."
-
" Biddy, bring me some salt." "Sure an' I will, your riverence. "r
the article in her hand. "Never again bring me nything in your hand," said the master; "you hould have brought it on a plate." rung and the faithful domestic instantly appeared. "I want my slippers." Biddy went and returned bearing


## Troubles in High Life.

 Two miniature mothers at play on the floorTheir wearisome cares were debating, Their wearisome cares were debating,
How Dora and Arabelle, children no more,
Were twice as much trouble as ever before And the causes each had her own carestore,
Were, really, well worth my relating
Said one little mother: "You really don't know
Whe What a burden my life is with Bella!
Her stravagant habits I hope she'll outgro Her stravagant habits I hope she'll outgrow.
She buys her kid gloves by the dozen, you know, She buys her kid gloves by the dozen, you
Sits for cartes de visite every fortnight or so,

Those stylish young ladies (the dollies, you know, Had complexions soft, pearly and waxen,
With arms, neck and forehead, as white as the snow,
Golden hair sweeping down to the waist and Eyes blue as the sky, cheeks with youth's ruddy

"Indeed!" said the other, "that's sad to be sure; But, ah," with a sigh, "no one guesses The cares and anxieties mothers endure.
For though Dora appears so sedata and demure, She spends all the money that I can secure
On her cloaks and her bonnets and dresses."
Then followed such prattle of fashion and style, I smiled as I listened and wondered,
And I thought, had I tried to repeat it erewhile, How these fair little Israelites, without guile,

At the way I had stumbled and blundered.
And I thought, too, when each youthful mother had conned
Her startling and touching narration,
Of the dulls of which I in my childhood was fond, Of the dulls of which in my ohild hood was fond,
How with Dora and Arabelle they'd correspond,
And How with Dora and Arabelle they correspond,
And how far dolls and children todasy are beyond
Those we had in the last generation!

Does Her Own Work.
Does she? What of it? Is it a diggrace to her?
Is she the less a true woman, less worthy of respect than she who sits in silk and satin and is vain
of fingers who never knew labor ? sneer a few days ago, and the tone in which it was uttered betokened a narrow, selfish, ignoble mind,
better fitted for any place than a country whose better fitted for any place than a country whose
institutions rest on honorable labor as one of the chief corner-stones. It evinced a false idea of the true basis of society, of true womanhood, of genuine nobiinty. It showed the detestabe spying to establish; a caste whose sole foundation is money, and so the meannest kind of rank known to civili-
zation. Mind, manners, morals, all that enter into zation. Mind, manners, morale, all that enter those
a grand character, are of no acount with those a grand eharacterer, are of no asition in their stilted ranks is bought with gold, and each additional dollar is
another round in the ladder by which elevation is gained.
In matter of fact, is it more dishonorable for the merchant's wife to do her own work than for the
merchant to do his? For her to look after her merchant to hims for him to look after his store? Or is a woman for nothing only to be "pleased with a
rattle, tickled with a straw?" It seems to be the rattle, tickled with a straw? " It seems to be the
height of ambition in some circles to be, or profess to be, not only "above" work, but even ignorant
of how work is to be done; and if the table is of how work is to be done; and if the table is
poorly spread, and if the housekeeping is at sixes poorly spread, and if the housekeeping is at sixes
and sevens, the "help" receives maledictions
without stint, but the "lady" takes none of the without stint, but the "lady" takes none of the responsibility upon herself. She look into the
kitchen steak broiled! She know when the flour is out or the sugar in! Absurd! "Help" may be bad
enough, but what interest can the girl in the enough, but what interest can the girl in the
kitchen feel in the household economy, if the lady in the parlor has none? If mistress neglects all domentic duties, will maid be thoroughly con-
scientious? Will the husband's business go on scientious? Will the husband's bosiness go on
well if he neglects it? And why hould that of
the wife prosper under her lakk of responsibilty?

Always leave the draft of a stove open when there is no fire in it; by this means a room can be
cleansed from impure air, as the open draft acts as
a ventilator.

## Good Cheer.

Why sit you down at sighing A light is underlying
The gloomiest shades that blend
That life is more complete
If it embraces all: The sweet is always If you have tasted gall.
Then bravely bear your crosses, Nor closely clasp your pains Perhaps you may find gains.

## Think Truly

 Think truly, and thy thoughtShall the world's famine feed; Speak truly, and thy word Live truly, and thy life shall be

## What Most Women Need.

Discussing the difficult problem of female edu-
cation, the Nation pertinently remarks that cation, the Naion pertinently remarks that what
most women need next after health and power of acquisition, and the confidence which spriugs from having acquired sometning, is a tolerable amount ministration on a small scale. It includes the faculty of getting the most for one's money, and to be a man's vocation to the extent to which it is likely to be a woman's, he would undoubtedly be
prepared for it by some sort of apprenticeship. prepared for it by some sort of apprenticeste ca-
He would have to learn in some subordinate pacity the proper mode of buying and prepariur
food, and of procuring and taking care of furniture and, clothing, and of ruling servants. He would
be trained to receive company by some experience of trained or receive company by some experience
of the art of entertaining, both in its material and its æsthetic aspect. No one would ever guess, course, that a girl was to be the head of that mosit complex result of civilization, a modern housecomplex
hold, with
relations.

## The Tuberose.

Some one had placed, that summer hour, In the small, hand we loved so well,
A tuberose's waxen bellThe hand looked waxen as the flower Though then a child, yet as each yea
Its summer hues and scents resume To me returns that moment dear With this pale flower's rich perfume The awful picture scarce is dimmed
I almost hear the rustling wings
Of hovering angels, and it brings Of hovering angels, and it brings
The lisping words our hearts have hymned The lisping words our hearts have hymn
To mind, and swift the eye o'erflows
At odor of the tuberose.

## HUMOROUS.

Sulk Dresses.-" "James, my love, perhaps
what do you think ?-perhaps, maybe, you know, dear-it has just occurred to me that it might be cheaper to get a couple of silk dresses this sum-
mer-because, you see, the mulberry has blighted mer-bilecause, south of France, and the crop, will
the sikort, and dress silks awful high next year." "" Wh an the !" "aid Mra Partingt "What a strain is that! said Mrs. Sarin in the
as she heard an air from "Lucia" sung in the highest style by a young lady where she was visit,"
ing. "Yes," was the response, "it is "peratic."
"TV "Upper attic, is it ?" questioned she; "o should
think it itw high enough to be on the top of the
house." house."
"Mar "Maria," said a lady to a colored servant,
"that's the sixth silk dress you have worn since you came to me ; pray how many do you own?", "Only sen own so many even as that." ""Spect not, misses,", "you doesn't need 'em
said the smiling darkey ; "y said the smiling darkey; "y "you doesn't need em
so much as I does. You see you quality forks
everybody knows is पuality, but we betternios everybody knows is quality, but we bettermios,
kind of culled pussons has to dress smart to diskind of culled pusssens common niggers."
tinguish ourselves from com

## Et Ceteras

Stoves.-It is a great mistake that many housekeepers make-the putting away stoves early in
the season. Mure people die in the spring than in the season. Mure people die in the spring than in
the fall on account of changes in the weather, and the reason is obvious. In the fall, expecting the cold to increase steadily, we wrap ourselves warm-
ly and have tires in our houses as soo ly and have fires in our houses as soon as they are
needed. In the spring, continually hoping for needed. In the spring, continualy hoping for
warm weather, we lay aside too soor our furs and
flannels, put away flannels, put away our stoves, and act as though
summer had come. But not until the 21 st of Jone (according to the almanac) does summer begin. Not until about that time is is tafe to put on sum.
mer clothing. Those who live along the seaboard, mer clothing. Those who live along the seaboard,
the lake shore, and in mountainous and hilly regions, need facilities for warming their rooms
during the entire summer, and for want of them during the entire summer, and for want of them
often suffer serious illness. It is safe to wear flannel the year round-to invalids, elderly people and children it is indispensable. A cold contractbut one is almost assured against it by wearing flannel.
Don't wash your vegetables until just before you
are ready to cook them. At least one-quarter of are ready to cook them. At least one-quarter of
the value in sweetness, vivacity and aromatic element is lost by the too common practice of having washed clean of the natural earth adhering to its
fibres and surface during the growth, and which fibres and surface during the growth, and which,
when roughly dug, is put into the cellar or pit of
the countrym the countryman for winter keeping. Did that
countryman wash each beet, carrot, potato, etc, as is generally practiced for sala to to the dealer, and by
the consumer desired, he would the consumer desired, he would never be able to
keep his produce a single month keep his produce a single month. The receiver o
a clean-washed vegetable, according to the new a clean-washed vegetable, according to the new
established law of refinement, never yet ate of a good natural flavor, and these same people, if once
they leave their city homes and go into the country farm-house, rarely fail to notice the superiority of vegetables. It is not because of the better
knowledge of cookery but it isf knowledge of cookery, but it is from the fact that
the earth is a preservative and absorbent of the volatile element of the root, which, as soon as
washed, evaporates rapidly into the Childrenores rapidy into the air and is lost. sant? Children are too apt to regard the keeping of a home as a duty incumbent upon their parents,
without realizing that they have as much to do
with with its formation almost as the parents them selves. Home is not perfect without the help oo
every member of the household. It has been beautifully likened to a harp-if all the stringg
are attuned in harmony, sweet melody is the reare attuned in harmony, steet melody is the re
sult; but if one is out of tune, it jars, harsh dis cord upon the senses. The parents' duty is to furnish a home where the comforts of the body are
provided, where the mind is educated and the soul provided, where the mind is educated and the soou example. The children's duty is to respond to the efforts of their parents-to echo, as
attention and affection shown them.
Aspiration is no enemy to contentment. A man may aspire, he may hope to advance in worth,
power, wealth and knowledge, and yet be quite power, wealth and knowledge, and yet be quite
content meanwhile. A bird that sits patiently
conie while it broods its eggs, ties bravely afterwards,
whent
leading up its timid young. So he who desires leading up its timid young. So he who desires to
lee a better farmer, citizen or individual, may work and toil, may study and and plan in that direction, yet remain content so long as he is doing justice to
present opportunities. There is a wonderful present opportunities.
difference between true contentment and laziness the one seeks the legitimate use of all its faculties, the other
pleasure.
To prevent dust rising from a carpet when being
swept, sprinkle carpet is much soiled, rub the salt well into the
fiker ibers with the broom; then give a thorough
sweeping, going over the work several times. The result will be satisfactory, as it gives a fresh look
ro colors dimmed by dust, and a sweetness most to colors dimmed by durt, and a sweetness moss
desirable. We consider salt far ahead of teagrounds or a wet broom in cleansing a dusty carpet. purpose, and with the dust can be cast on to the
aspara, asparagus bed. As asparagus requires salt for
food, we "kill two birds with one stone." To keep insects out of birdcages tie up a littile
sulphur in a silk bag and suspend it in the cage. sur mocking-birds this is essential to their health, For mocking-bur will keep all the red ants and
and the suphur
other insects from the ces of and other insects from the cages of all kinds of birds.
Red ants will never be found in a closet or drawer if a small ba
these places.

## aturle Toms glopartment

My Dear Nieges and Nephews,-The glorious autumn season has begun, and the time for great perseverance and hard study is here. Our evenings are rapidly growing longer. We have now
tirce io ar after sundown ere it is time to go to rest. $t$ Irve in ar after sundown ere it is time to go to rest. This i ne golden time of the year for young pupils, w ${ }_{\text {of }}$ or at home or at school. Those at
schoc 1 nave such guidance that they are at no loss schoc 1 nave such guidance that they are at no loss
how to employ to the best advantage every mohow to employ to the best advantage every mo-
ment of their time. Some parents say that the hours at school are long enough to study, and so they are for young or delicate pupils; but for students to make rapid progress it is certainly quite necessary to study their lessons at home in the evening. It is well to have a special room for study, so that they can give full attention to their books. It is impossible for some boys and girls to give their minds to study when in a room where we must ask a questiou of parents, or brothers and sisters : Do you remember how very difficult an easy lesson would sometimes appear to you?an easy lesson would sometimes appear to you?-
Well, just so it seems to our nephews and nieces ; whereas if a little assistance were given by a parent, brother or sister, lessons
easy to their little troubled minds.

Uncle Tom.

## PUZZLES.

S6-three diamonds.
 -In circumnavigation. 1 -In inconspicuous. -A Turkish name. ${ }^{3}-\mathrm{In}$ herbalist. A spice. $1-\mathrm{In}$ iniquity. ${ }^{4-\mathrm{A} \text { climbing }}$ irls name. $3-A$ county in Asia. 4 -Purpose $0-\ln$ Nagara

87-double worb-square
Across :- 1. Departed. 2. Declare, 3. Look
askance.
4. Terminates. Down $:-1$ High wind askance. 4. Terminates. Down: -1 High wind
2. Part of a stove. 3. Want. 4. Mistakes. 88-enigma.
My first is in boy, but not in lad;
My second is in merry, but not in sad;
My third is in stripe, but not in streak;
My fourth is in proud, but not in meek;
My fifth is in litle and ans in
My fifth is in little and also in tall
My sixth in none, but not in all;
My whole a trusty guide is found
For animals men ride around.

> Sô-easy decapitations.

## ons.

1. Behead a kind of sword, and leave a fluid for burning. 2. Bchead a sharp-pointed weapon, and
leave a fruit.
2. Behead to touch, and leave a cave fruit. . Behead to touch, and leave a ceave a game that boys play. 6 . Behead and an an
ancient war implement, and leave a unit. 7. Be ancient war implement, and leave e annit. 7 . Be-
aead animal's of a common kind, and leave a sort head animal's of a common kind, and leave a sort
of grain. 8. Behead to pull, and leave sore. 9 . of grain. 8. Behead to pull, and leave sore. 9.
lehead the name of a vessel, and leave a narrow
passage.
waltitr a.

90 -transpositions

1. Change artful into a confusion. 2. Change at
kersian king into a mixture.
2. Change a cutter Rersian king into a mixture. 3. Change a cutter
into listeners. 4 . Change a cheat into musicians.
i. Change repaired into healed. CYRLL DEANE.
91-easy beheadinen.
3. Behead to strike, and leave what all must do, nickname. 3. Behead two pronouns, and leave two other pronouns. 4. Behead an article o
furniture, and leave capable. 5. Behead a color turniture, and leave capable.
and leave a writing material. thing belonging to Howers, and leave a coin. 7 Behead a part of the head, and leave what comes
from the clouds. 8. Beliead another color, and from the clouds. 8. Behead another color, and
leave a kind of stove. 9. Behead a sport, and leave a girl's name. Io. Becheall a part of a ship, and leave a tree.
cave disturbance.
i2., Behe a kind an article of food,
and leave a kind of tree. 13. Behead a table uten-
sil, and leave a bird. 14. Behead to frighten, and and leave a kind ofrce. 14. Behe to frighten, an
sil, and leave a bird. 14. Beheat
leave anxiety. 15. Behead a toilet article, an leave anxiety
leave to crow

## 92-easy eniema.

My first is in dark, but not in light;
My second in girl, but not in boy ;
My third is in peace, but not in fight
My fourth in mourning, not in joy;
My sixth in kind, but not in cruel;
My seventh is in drives, and also in leads
And my whole is a beautiful jewel.
93-easy syncopations.

1. Syncopate a composite metal, and leave a
fish. 2. Syncopate an article of food, and leave an ornament. S Syncopate a map, and leave a
vehicle. 4. Syncopate a pungent spice, and leave vehicle. 4. Syncopate a pungent spice, and leave
a smali bay. 5. Syncopate a wading bird, and a smail bay. 5. Syncopate a wading bird, and
leave a reed. 6. Syncopate a short, ludicrous play,
and leave a part of the body.
2. Syncopate a do | and leave a part of the body. 7. Syncopate a do- |
| :--- |
| mestic animal, and leave articles of clothing. 9. | mestic animal, and leave articles of clothing.

Syncopate a small animal, and leave to ponder. 10. Syncopate a small animal, and leave to ponder. 10.
Syncopate a flower, and leave a domestic animal.


We issued this illustrated rebus in chousands of tions. Many attempts have been made to solve it, and many a

## 94-a hidden quotation.

In the following lines may be found a wellin each line:-

It was but an hour ago O, hour, you seem like a year; For slow, slow to and fro
The tick of your moments I hear. till hear ! still smell ! still touch ! O, echo of diaser's clutch, When his gold has vauished-fled.
What use in a hand that feels And falters and seeks in vain;
Through the dull dead darkness steals Through the dull dead darkness
The sound of a mighty pain Of a heart that is sorrow-slain.
A year that seemed like a life; The heart that complained of its strife Is a heart whose troubles are o'e
Still death gives sight as before.

## Answers to September Puzzle

## No. 7B-Zuyhnath hpanne. iz-Sottislues

78.-Holmes. Lowell.

cr
 B-lot. 11. B-ranch. 12. S.lack.
84.-China, Italy. 1. Chili.
Nepaul.
S. Alleghespont. 3. India. 4. Vepaul. 5. Alleghan
85.-Sunderland.

Names of Those Who Sent Correct
Answers to September Puzzles
$\xrightarrow[\text { Answ }]{\text { Ansen }}$



Made a Mistake in His Man. An insurance man called into an establishment
on Main street the other day, with a large account on Main street the other day, with a large account
book under his arm, and walking up to the proprietor in a business sort of a way, he inquired :

How's business-how's stock?
"Oh, business is very, very dull," returned the tradesman. "'Pon my word, sir, I haven't go
\$000 in the house ! Terrible dull !" and he paused and looked inquiringly at his visitor. "Only $\$ 900$ ?" said the insurance man in sur-
prise. prise.
".'Pon
don't bel "'Pon my soul, sir," repeated the dealer, "I
don't believe theres a dollar more-look for your-
self," and the men don't believe there's a dollar more-look for
selff," and the man looked sad and sighed.
"'Thene," "Then, sir," said the insurance man, with a
good deal of warmth, "how does it come that your tock is insured in our company for $\$ 4,500$, eh ?"" "Oh! ah ! beg your pardon!" exclaimed the
dealer in great confusion, "I thought you was the tax man! I was sure you was the tax-gatherer, or my stock is worth fully $\$ 8,000$-look for yourself,
mir ") sir!"一Cohoes Eagle,

## Gems of Thought.

A great head has great cares.
$\xrightarrow{\text { Tine. }}$
time.
It is better to retrace a wrong step than to pursue a wrong course.
templation, but the mind needs actioul loves conTake care to be an economist in prosperity there is no fear of your not being in adversity. Most of our misfortunes are more supportable
than the comments of our friends upon them. Where the mouth is sweet, and the eye intelli-
gent, there is always a look of beauty with a ligh gent,
heart.
It is not only old and early impressions that de-
ceive us; the charms of novelty have the same
power.
Friendship closes its eyes rather than see the
moon eclipsed; while malice denies that it is ever moon eclipse
at the full.
If we neglect to cultivate the habit of observa-
tion, we might as well walk through the worl tion, we
blindfold.
If you have a rare thought, express it in the
simplest language possible. A diamond should
have a plain setting It is not until we have passed through the fur nace that we are made to know how much dros
was in our composition The was to
The way to get credit is to be punctual; the way
to preserve it is not to use it much. Settle often have short accounts.
A tly is a very light burden; but if it were to
perpetually return and settle on one's nose it might perpetually return and set
weary us out of our lives.
As by coustant friction steel is kept highly pol ished, so by constant exercise is talent at its
brichtest. All our powers grow by ue. brightest. All our powers grow by use
The great man is he who chooses the right with
invincible resolution, who resists the incincible resolution, who resists the sorest temp-
tations from without and within, who bears the tations from without and within, who bears the
heaviest burthens cheerfully, who is calmest in
storms and most farless under mena seliance on truth, virtue and Heaven is anfaltering

## Fresh Grapes all Winter.

 My father, who was an ardent lover of the "fruit of grapes for winter that "we children", scareely
regarded them as more of a luxury than we did agples, as we had them for almost daily eating.
His method for keeping them fresh and wholesome, His methon for kepeping them fress and wholesome
was so simple that $I$ wonder it has not been gener-
all


 winter. In a large iron spoon beeswax was melted,
and the end of the estem of the cluster which was
and wax, forming a seal jver the end, so helping ${ }^{2} \mathrm{o}$ prrvent the escape of freshness in it. Ast fast ant and
the clusters were so sealed they were carefully the clusters were so sealed they were carefully
laid in a basket, the inside of which had been lined with paper (newspapers were frequently noed).
The bunches were alad sid ory side in in he botod
of the basket and when the layer was completed a paper was laid over the top, and so on, a laye of grapes and a layer of paper, untilit the top of the
basket was reached, when paper was
 stor weather came, when they were removedd to the cellar, which was a dry one. In this way the
grapes kept nicely until spring.
The chief thing trape observed was to handle. the bunches care
fully, so that none of the grapes were broken o fully, so that none of the erapes were broken on
loosened from the stem; the next to keep then dry and cool, but entirely free from frost.

## Gathering and Keeping Fruit.

 We have learned by experience that early-gath has attained its full size, we advise that it be picked. In Central Illinois this will occur by thelast of September; further north,
lither e A few days' neglect of this important duty may
cause the permature ripening of the crop.
 from the tree solong as they can safely 1 emai without danger from frost. We have printel pararaphas about keeping fruit in sand, and here
is another experience to the same effect, recorded in The London Garden, as ocaurring in England.
The elosing paragraph is undoubtealy true :He keepp fruit in this way all the year. round
He has had French crabs two years old
The Catillac pear has remained sound twelve months. The fruit must be sound when stored, and the sand must be quite dry. The chief advantage of pack
ing in sand are, the exclusion of air currents, the preservation from changes of temperature, and the
absorption of moisture, which favors decay. Much absorption of moisture, which favors deay. Much
will tepend on the apartment in which thhe experi ment is tried, a dry or cool one being best. There is nothing new in the subjoined hints
from an English orchardist, but they are sound and practical :
Clean thoroughly and whitewash the fruit-room
 imperfect specimens. Piick only when quite dry
and do not handle carelessly.
Never place the and do not handle carelessly. Never place the
fruit more than two layers deep on the shelves-

 cold weather.
wantel for the table.
We might supplement the above with the re
mark that may be covered from air and light, though i
 of keeping yrapes sill New Year's, or later, as
fresh and unchanged as the hour they were
picked picked:
I leave the clusters on the vines as late in the
season as inmunity from frost will permit, then season as inmunity from frost will permit, then
provide inself with harge earthen crocks or pots,
and stitr heow on traw
In the and stiff hrown orn strawe paper. In the middle on
the thay, when the berries are perfectly dry, fill the the clay, when the berries are perfectly dry, fill the
pots with thin layers of clusters, and a thickness of paper between them. Let them stand in it some
iry, cool place for three days unocoverelt then put
the over the covers, so as to keep them from the air.

Select a dry knoll, and bury the pots in the earth $h$ is our common tub butter. The French butter,
below all danger of frost; lay a broad board over
the finest possible product of its the top of the pots and cover with earth, mound. the butter stores scattered all over the coity, which
 freeze hard it would bé well to cover the neetness. Young girls or women in snowy caps mound with leaves or straw, so that the pots could
be dug out more easily in severe weather.
toners We close with a remark made by a spanker at the deskk supervising the business and keeping the Conrier, of that town:
If you want applest to keep they should be picked fully, without being bruised or scratched. There is a natural wax or bloom upon the fruit, which if
bruised or seratched off the frait will spoil. He Sruised or seratched off, the frait will spoil. He about to send fruit to martet- it pays largely. An inferior fruit will look better in a new barrel than good iruit in an old barrel.

## Chinese Oysters.

## odities in their brbeding and preservation

 Like so many peculiar things in the Celestial Em bivale differs widely from that pursued in Europe or America. In the southern parts of China "ool catchers are, however, prepared in a curious man her. The cans are exposed for about two month ilar period in salt water, after which they are again dried for several days, the object being to preserve
them from decay and prevent the twisting or wrap them from deay and prevent the twisting or wrap
ing of the bamboo. Notthes are then out
ti the Cag of the bamion empty oyster shells are fixed,
canes sito which
like so many cups, and thus prepared they are
 water mark, and left stan are considered the bes
pat.
Those localities are Where the riese and fall of the tide is the greatest
so that the bivalves may be alternately covered so that the bivalves may be titernately covered
by the flood and exposed to the ain on the ebb. There the young oysters thrive well and develop
rapidly, and are quite ready for the market when rapidy, and are quite ready tor the the tarade is caried
they are two years old. on by y the persons who pursue the calling, and who
have many thousands of these collectors lanted in favorable situations, and some suce sessul beed China large quantities of the oyster are dried in stead of being eaten in a fresh state. For that parpose they
plunged into boiling water, and then removed at once, after which process they are exposed to th rays of the sun untit every particle o moil kerp for a
evaporated. In that style they will kin lengothto of time, and are said to preserve all the
delicacies of their flavor. The finest and fattest bivelves, bred and fed oted for preparation by that methol, those taken from the natural beas beeing inferior in qualty

Butter Stores in Paris.
While waiting for our break fast one morning in
Cremerici in Paris much frequented by foreigners,
 I looked around at the perple seated at the dif ferent tables, and wondered if she were speaking seriously. In these days when fassity and ween costume and every civilized race is mixed toa a great
the bloo of of that extent with that of every other, distinguishing na. tionality at aight appeared.
asked my friend her seret.
"oh, it is no secret," she repied, smiling. don' protend to tell except when they are tal,
dreakfast. They all put, salt on their butter." break fast. They plas ondy to break fast, th
 pose, I said the weakness that makes all people "No," she said; " we never put butter on the
dinner tahe "-a fact 1 had at the monnent forght$\xrightarrow{\text { dimen }}$ It is true that the only salted butter you eve cain), but there this is usec only for cookine, an
 the occupation of book keeping.
One of the butter stores of Paris $I$ remember
especillly, and will briefly describe it. It was near
 on the right of the entrance always contained a large loosety arranged bouquet of fresh flowers,
apparently gathered from some rural garden. apperently g githered from some rural garden.
Thire was nothen else in the window excopt
glass covered stand contaning glass-covered stand containiuy Bondon choesf and
the double creme esuiss. Anside, there was a horse-shoe counter or table, where e eggs and cheose
were were soll, and on eother side marble tables, each containing about four h hye mases of butter,
shaped ilik an inverted buterner firkini. Over each
mass was hung a delicate silver wire about two shased was hung and deliciate silver wire about two
fees long both end terminating in a piece of cork.
feer feet logg, both ends terminating in a pieco of oork,
Wi, th this wire the sales woman would cunt, almost al ways exactly, any amount ordered, from a demit
quart (half a quarter) to a pound. It being a cost. Iy product, and always purchased daily, small
quantities are the rule. To separate the guantity

 tuces in your thaske, isert sales-women. ${ }^{\text {seconds with these expetuees }}$ you would be sure to have in your bakket, for no
one eoses to market in Paris withoun buying them,
they


 | Oclober. |
| :--- |

## Dusting.

Florence Nightingyle says that dusting in thes days is nothing but rappug dust trom one part o
a room to another, and says that she cannot imagine why it is done. A duster should be well shaken out of the window every few minutes, bue
if one be in too great $a$ hurry to take the number of one be in too great a hurry to take the number Keep the window open while one is dusting, it it
possible to rid the furniture of every atom of dust Possin two loths, one very slightly damped and
hy using ther dry. The former will remove the dust,
the other and the latter the elight mor wisture leote by the thast, for-
mer. Do not wet a duster which you mean to use
 as if you meant to iron it, and when you have
done using it, dry it thoroughy, shake it out,
 do not look quite so agly when drying, and it is
sometimes necessary to have them in inght during the process.
-
Nothing makes a woman age more rapidly than overwork; the reason, probably, that American
women fade so soon. Sunshine, music, work and sleep are the greatest medicines for women, who
leed more sleep than men. Their nerves are more sensitive, and they are not so strong, and exhaus. tion from labor or pleasure takes place esoner with Them than with men. Never permit yourself to be
 of itseli when its demands are gatisfied. Thate at
warm bath oceasionally befor
going to bed -at
 go to work. Youn need rest then, and will pay for the trespass on your physical nature the next day

## Baking Powter.

In this class of gcous the Coons Friend has, by. its unfiformy excellent quaaity, taken the tirst place.
jar of Balt- $i t$ saves time, temprer and money, and is very healthy.
Mclaren's Cook's Friend Baking Powder is re tiileal every where. It is protected by a trade.
mark on every package, without which none is ar sord in butter stores,

## The First Red Leaf.

ow mrs, clara doty bate How like a blossom on a bough,
In haste to put its sarlet on,
The first red leaf swings in The first red leaf swings in the sun. Not yet has the magician, Frost,
.With sunset colors in his brush, Made emerald woods and uplands blush.
But there upon that topmost bough, The little vivid, kindling thing
So will it float until some breeze Leaves it, with wanton touch, alas
Wrested and helpless on the grass, To scorch in sun, be drenched with rain, Its day of tinted glory brief,
No blossom-but a withered leaf : Vagrant as thistle-feathers blown At the scant mercy of the air,
Shelterless, homeless, anywhere
The very breath that dallying strove To Hlannt its banner-color out
Readiest to buffet it about !

Yet, see, how on the breezy bough,
In haste to have its scarlet on,
A Tarantula's Home.
One of the most singular curiosities in nature
that has ever come under our observation is the nest of a tarantula, a species of spider whose bit
is supposed to be fatal. It is constructed of clay is supposed to be fatal. It is constructed of clay
and small stones, and ic about four inches long and small stones, and and two inches wide. A hle three-quarters of an
inch in diameter passes through it lengthwise, one
end of which closes by a trap door beveled a end of which closes by a trap door beveled a
the sides and top, and fitting so perfectly that when closed scoarcely a sign of the opening is
visible. The door is rounding at the to perfectly visible. The door is rounding at the top, perfectly
straight at the bottom, and works on a hinge con straight at the bottom, and works on a hinge con
structed on the same principle as the joints on which a door hangs. The nest is lined with a sof grossamer substance, and is as round as if bore
with an auger. It is said that the tarantula, when with an auger. ${ }^{\text {attacked, crawls into its nest, and, closing the }}$ trapdoor, secures it by inserting one of its legs
through a staple scarcely discernible to the naked eye. These tarantula nests are quite a curiosity yet they are found in great numbers in Calaveras, Tuolumme and Stanislaus counties; visitors re
turning from Yosemite can find them along the turning from Yosemite can find them along the
banks of the stage road plentifully.-Calijornid Farmer.

A Story for Boys.
A boy finished his education and looked around
for employment. He was a bright lad, with for employment. He was a bright lad , with
healthy organism and a resolute heart. His father had given him all he had to give, and the boy took
his bundle and turned his steps toward the city his bundle and turned his steps toware he city There was nothing about him to insure success,
apparently, that ninety boys out of a hundred did
not have. Young as he was he had some rules not have. Young as he was he had some rules.
He would keep. out of bad company. He would He would keep
go into no business that was not reputable. He
would not be idle. He would take any lousiness, even if the pay was poor, that would give him
living. He would try to make every position a living. He would try to bake every position a
stepping.stone to something better. Whatever he
did he would do cheerfully, and do well. Hiss uncle once told him that civility was a poor man
capital. He had some of that stock, and he proposed to invest it He trotted around a week, ask ing the stereotyped question, "o No you want a boy one of his traits, and he held on. A man kept a
seed store just oft Broadway. He wanted a boy, but ho could not pay nuch. Position, not money cepted the place. The work was hard, the pa poor. He shirked nothing and never grumbled.
His cheery, smart way of doing things attrated the attention He was offiered a place in the institution. His heart bounded at the offer. He was
too honorable to take alvantage of his employer, so too honorable to take alvantage of his employer, so
he went to the store and talked to him. "I yo not
want you to go," said the man, "but you are want you to go, said the man, mut you are
worth a good deal more than 1 can anforil to pay
you." The next week he was installed as check you.". The next week he was installed as check
clerk. The business of the bank was very large.
lt was mainly with marketmen, and the checks


#### Abstract

were small. Out of a hundred not two would bo over ten dollars. The work was immense. One day a porter sid One day a porter said to the young clerk: Work is hard, and your pay small; you can never rise in this bank. A new bank is to be opened Monday; they want a check clerk. Why don't yon apy", "I yon apply":" "I know you very well," said the ofticer. "I would be very glad to have you in the bank, but I cannot pay you any more than you are now getting. You will have to take the lowest now getting. You wil have to take the lewes round of the financial ladder, and I don't see what you would gain. you would gain." "I see," said the discerning lad. "Give me the position and I'll run the chances." In four months he kept the individual ledger. In six months he was a a bookkeeper. In a few months he was receiving teller. In ten years from the time that he first entered the bank years from the time that he first entered the bank he was elected cashierto one of the largest moneyed institutions of New York.


He had marked financial talent. He learned the principle of banking. He knew every principle
that underlaid the system.
He had the intuition of a woman. He was an influential and judicious addviser. He took the measure of a man at a
glance, and seldom made a mistake.
He came glance, and seldom made a mistake. He came
earlier and left later than any of his associates. He lent a helping hand to every department. If a
clerk wanted an hour's absence, he supplied his clerk wanted an hour's absence, he supplied his
place. If a young man was bothered or in trouble, place. If a young man was bothered or in trouble,
he would assist him. With the customers of the bank he was eminently popular. As it neared
three o'clock and the rush became uneasy, in his three o clock and the rush beame uneasy, in his
pleasant way he would say, "Don't crowd, gentlepleasant way he would say, men, don't crowd; you shall have plenty of time." When discounts would be denied or ugy custon-
ers were to be dealt with in the bank, the young ers were to be dealt
teller was put forward to do the unpleasant work.
His bond His bland and pleasant manne
appointment of half its sting.

## Migratory Squirrels.

The following is illustrative of the intelligence
common to the lower orders of the animal king. emigrating in large parties, and sometimes travel handreds of miles. When they meet with broad lakes, they take a very extraorainary method
crossing. They approach the banks, and perceiv. ing the distance between them and the opposite shore, they return as if by common consent, int the neighboring forest, each in search of a piece o
bark or light wood, which answers the purpose o
boat to ferry them over. When the whole co a boat to forry them over. When the whole com
pany is provided in this manner, they boldly com mit their fleet to the waves, the air with his tail in order to drive himself across. In this orderly
manner they set out, and often cross lakes several manner they set out, and often cross lakes several
miles broad in this way. It occasionally happens,
however that the poor squirrels encounter such however, that the poor squirrels encounter such a
gale that nearly all their vessels are capsized, and they are shipwrecked. It is an ill wind the
blows nobody good, however, and the shipwreck so disastrous to the squirrel, is a matter of great
rejoicing on the part of the Laplander on shore, rejoicing on the part of the Laplander on shore,
who gathers up the dead animals thrown on shore

Don't Whip.
A parent who doesnt know how to govern
child without whipping it ought to surrender the care of that child to some wiser person. Sports men once thought it was neeessary to lash thein
dogs in training them for the field. They know now that the whip should never be used. Horse
men once thought that it was necessary to whip colts to teach them to start and stop at the word
and pull steadily. They now know that an apple is better than the lash, and a caress better than a blow. If dogs and horses can be thus educated
without punishment, what is there in our children which makes it necessary to slap and pound them?
Have they less intelligence? have they cold hearts? hre they less intelligence?" have they cold hearts?
are thew in the scale of being? We have heard many old people say, "If we wee e to loring are wise, but a little too late. Instead of God doped into goodness, he has done so much for them rule. Many chilldren are of such 'uality that a cow makes them cowardiy, or reckless, or de-
ceitful, or permanently ugly. Whiping makes
them steal. Whipping breaks their spirit. Whip. ping makes them hate their parents. Whipping aways, makes the girls seek happiness anywhere

A Gallant Old Gentleman.-Not long ago, as an elderly couple were out walking, a lady on the opposite side of the street tripped and fell down. The old gentleman rushed across the treet, raised his hat, and offered to assist her in ny possible way. His wife followed him across
ta slow pace, and witnessed his devotion to the tranger. She got mad and shook her fist at him. It's all right-it's all right," he whispered. Yes, I know it is !" she hotly exclaimed. "Here an unknown woman stubs her toe, and you plow across the street to eat her up with kindness. The
other day, when I fell down stairs, you stood and laughed and chuckled and tickled your ribs, and "anted to know if I was practicing for circus !" "Will you dine with me to-morrow?" said a
Hibernian to his friend. "Faith and I will with Hibernian to his friend. "Faith and I will with
all my heart." "Remember 'tis only a family inner I'm asking ye to." "And what for not?
family dinner is a mighty pleasant thing. What have you got?" "Och! nothing by common; jist an illigant piece of corned beef and potatoes." "By dinner to a hair-barring the beef."
Three little boys on a recent Sabbath were stop-
ed on the street in this city by an elderly gentle ped on the street in this sity they an elderly, gentle-
man, who, perceiving that they hats and a ball with them, asked one of the number this ques-
ion: "Boy, can you tell me where all naughty tion: "Boy, can you tell me where all, aughty
boys go to who play ball upon Sunday?" "Oover boys go to who play ball upon Sunday!" "the
back of Johnson's dam," the youngster replied. A member of a fashionable congregation in New York lately called at a music store and inquired for the music of a piece called the "Song of Solo-
mon," which his pastor referred to the Sabbath previous as an exquisite gem, and the inquirer's ife wanted to learer to play it.
How some women change their minds respecting
their husbands! Mrs. Jinks was forever telling er husband that he wasn't worth the salt in his read. But when the poor man got killed in "a any for five thousand dollars damages. ful young lady. As they approached the dwelling of the damsel, she said entreatingly," "Zekill, don't tell anybody you beau'd me home." "Sary," said he emphaticaily, you are."
A countryman walking through New Orleans bound his progress stopped by a barricade of lumo stop the yellow fever," was the reply. "Eh!
have often heard of the Board of Health, but I hever saw one before
A lady entering a horse-car observed an elderly
entloman rise. She said to him: "Don't rise, I beg of you, I much prefer you should keep your seat, sir.", "I should be very happy to accom"Do they ring two bells for school?" asked a father of his ten-year-old daughter, who attends high school. "No,
twice," she replied.
A man in Ohio, who attempted to hang himself recently, was cut down by his mother-in-law. She A kind-hearted man riding on horseback to a so as not to burden his horse with it.
"'That's what I call capital Lunishment," as the
boy said when his mother shut him up in a closet among the preserves.
"John, did you find any eggs in the old hen's
nest this morning?" "No, sir ; if she laid any she mislaid them."
"I'm told, Mr. Paine, that you are a hard drink-
"Not a bit," cried Paine ; no man ever drank easier."
There iz no mistake about the pleasure ov welth; Joshi Billinys.
Red used on a railway signifies danger, and says
step." It is the same thing displayed on a man's Dr. Holmes says that crying widows marry first. There is nothing like wet weather for transplant
ing.


The efamily circle.

## How Tim Became a Farmer.

 "Shine your boots? Five cents a/shine. Shineyour boots ?" your boots?"
Tim had tried his best to get work, but no one
wanted his boots cleaned. He wondered why it was. When mother was alive, how often Tim had begged her to let him set up as a boot-black
"They make lots of money," he would say. But she always shook her head and said, "Keep on at school as long as you can; you're too young yet.,
As long as I'm spared I don't want you to try it." But the poor hard-working woman had over
taxed her strength, taken a fever and died. Then Tim, left alone in the world, with nothing but a couple of neat but much-mended suits of clothe and five dollars, resolved to set up as a boot-black got two or three castomers, but now for two days not one person had let him shine his boots. His
five dollars were almost gone; what should he do ?
Tim was almost desperate, and in his desire for a Tive was almost desperate, and in his desire for a
Tim asked a lady who was massing if he could shine job asked a lady who was passing if he could shine
her boots. Perhaps she had little boys of her her boots. Perhaps she had little boys or her
own, and made it a rule never to pass a poor boy
without a kind word, for their sakes. At any rate, own, and made it a rule
without a kind word,
she stopped and said :-
she stopped and said :- "Not here, my boy; but if you will walk a vary muddy. Perhaps, though, you will lose some very muddy. Perbaps, thoug
work by leaving your place ?
No, indeed; I've not had a chance to-day."
"That's bad," said his new friend, "if you "That's bad," said his new friend, "if you need
the money very much as I suppose you do. But the money very much, as I suppose you do. But
you look, so neat and nice, I think you have a good yother.
Fim tried to answer, but his throat swelled, and
tears filled his eyes. his eyes.
"There! there! Don't fret, dear; here's the
house. Wait at the area, and the cook will let you in."
Soon a pleasant-faced woman opened the lower
door and told Tim to sit down by the kitchen fire The kitchen was full of the odor of soup, and you know how that will make you hungry even long before dinner-time. Tim, who had had no soup since his mother had last cooked their dinner,
snuffed the air, and remembered sadly how good shiffed the air, and remembered
"Mary," called a voice that already sounded
familiar, "give the boy a bowl of soup. I can't amiliar, "give the boy a bowl of soup. I can't
come down at once, but here are the shoes ; he can clean them after he has eaten. Put plenty of bread in his soup, Mary
"Shure, I was just longing to do it," muttered,
the girl, hastening to fill a bowl for Tim. "Here,' the girl, hastening to fill a bowl for Tim.,"
she said, " draw up to the table and eat."
Tim was too hungry to remember his mother's
instructions as to washing his hands, but he did not forget to bow his head, saying the grace he had said at every meal since he first began to
speak :- "I thank thee, dear Lord, for this nice food, and help
Christ's sake."
Mary stood still in astonishment. "That's the
first grace in this kitchen,", she said to herself, "but I'm bound it shan't be the last. I've been a forgetful creature."
The soup finished, Tim polished the shoes before. Just as he was giving a last touch to them, he heard some one come in, and saw the
lady who had brought him standing talking to Mary,
""Thank you; they are very niccly done. But if you get only, one customer a day, you'll not get
on well. Who takes care of you, my by " Try
to tell on well. Who takes care of you, my boy" Try,
to tell me about yourself. What is your name! " My namés Tim Titus, ma'am. Nobody takes
care of me-nobody but God. Mother said He'd

But he could not tell of that. The lady's hand
was on his shoulder, and she was drying his tears with her own handkerchief.
"I've tried boot-blacking, but I don't believe I
can get enough to do. Oh! ma'am-" and the
boy again broke down.
He was so neat and clean that Mrs. Denny drew
him close to her soothing him him close to her, soothing him as every mother
knows how to soothe and comfort. But her heart
was troubled for him. was troubled for him. Truth to tell, she had no money to spare and conld do but little. She had
only lately moved to the city, and had few friends
the there. What could she do to help him?
Suddenly Mary, who had been looking on, full
of sympathy, and remembering their country life and the plenty there, said :-
"Send him to the country.
Mrs. Denny's face brightzned. "Why, that's a
good idea, Mary. I do believe Mr. Ackerman yould idea, Mary. I do believe Mr. Ackerman
woust such a boy. Would you
rive cows, and learn to milk and help about the drive coess, and learn to milk and help about the
house, Tim?"
"Indeed I would, ma'am, and take my brushes
d black their boots for him." "Once a we
ith a laugh.
So it was arranged that Tim should come back the morning, and Mrs. Dennyjwould give him a
note to the farmer. She offered to note to the farmer. She offered to pay his way,
but Tim said he had two dollars left and could buy his own ticket. Mrs. Denny was pleased with his
onesty, and felt sure that such a boy world sut
eed.
The next day Tim was off for the country. All his treasures were easily packed in his mother's that at the depot when he reached Farrington,
nd walk out to the farm without it, as, if the armer kept him, he could easily get it. Tim ound the farm, and hearing voices at the back
door walked round that way and asked for Mr. Ackerman.
"He's in the barn," said a pleasant-looking girl. "I've a note for him."
" Well, go right over."
Tim delivered his note.
then, without saying a a word, went on with his Work. Tim felt rather discouraged, but, seeing a ished them. This took some time, for they ha never been polished before, I fancy. Then Tim
put up his brushes and slung his box on his back; e had better go back or try somewhere else. The
armer was just going up to the loft, but as Tim armer was just going up
lung his box, hẹ said :-
"Come here, my boy. You can work; I see
hat. Are you willing to work for a home?",
"Yes, indeed, sir."
"Two any clothes?"
"Any money?"
"One dollar and fifty cents."
"How much time do you expect to have to foo "Can't tell till I try to do the work."
The farmer was pleased with the bright, truthful face, and said :"You'll do. Go in the honse and tell 'em to set
you to work-chop wood, draw water, do anything till milking time."
So that was how Tim's boot-blacking endel.
He lives ent the farm still am. Mrs. Denny comes out to see her old friends any of the rest ; and, next to God, Tim loves the any of the let him shine her boots.-Hope Ledyard

## Snowed Up.

by the author of "a race for life. "I believe I am the most unlucky fellow in the his white tie.
"Why so,
"Why so, my dear fellow?" in 4 uired a cheery
vice at the door. Bertie turned
Bertie turned, still holding his chef-d'porio at
his throat, and said, "Oh, Charley, is that you "
'ome in ; I shall he ready in tive minutes Hav ome in; I shall be ready in five minutes. Hav ing arranged his tie to his satisfaction, he repetated,
"' 'es ; I believe I am. the most unlucky fellow in London, at any rate."
"What's the matter?" inquired his friend. "Well, you see," replied Bertie, "I'se just had s about to leave Marchmont and proceed to the is about to leave Marchmont and proceed to the
South of France. (Mother's not well, I believe.) You know I intended to go down this week and
put myself out of my pain. Charley put myself out of my pain. Charley, I love that
girl, and, Charley, I must marry her !" "Well!
"But it is not well. Charles Fletcher, you are a fish, a cold-blooded animal. How can you talk
like that when I am really, truly, and madly in "ove?", My dear Bertie, I should wait till the lad ""My dear Bertie, I should wait till the lady ascertain your chance."
"They do not come to London, I believe; at
least, net to stay ; so I am completely upset." "It will all come right, old fellow. Are you "Yes; it is time to be off. I do not feel at all
inclined to go, though," aaid Bertie mournfull A dinner-party was given by a Mrs. Arteman in whose husband's office Bertie Tyrrel was, or lattered himself he was, a shining light. Mr. years, and the young man was rapidly making his
way to a junior partenership. He had the credit of way to a junior partenership. He had the credit of
being very trust-worthy and quick at businessqualities which he took care to cultivate
Many people came in the evening also, and just
before the carriages were announced, Mr. Arteman before the carriages were announced, Mr. Arteman
entered the room and gazed anxiously around. For some minutes he was unable to descry the object f his quest, but at last found him out, and touch og young Tyrrel on the arm as he sat in a corne Has
Hastily apologising to his fair companion, Bertie
joined Mr. Arteman in the empty dining-room "Is anything the matter, sir?" he asked.
Mr. Arteman put a telegram into his junior's
hands as he spoke. hands as he spoke.
"This looks serious," said Bertie as he returued
the paper. "What do you intend to the paper. "What do you intend to do, sir?"
How can we restore confidence in the Mancheste How car
office ?'
" By
"By sending you down," replied his chief "But
"Thereforrow will be to late," said Bertie
horere you must go to-night, my lad. "To-night-go to Manchester to-night!" ex
claimed Tyrrel. The thing's impossible!" "Oh ! dear, no," replied Mr Arteman coolly.
"I have had your bag packed already. I took the
lim liberty to send Collins to your lodgings for your norning dress. I have a cab at the door. Here -take a bit of supper first though. The Pullman train from St. Pancras starts at midnight."
"And it is now eleven," said Bertie, looking
at his watch. "What sort of a night is it,
Colling "" at his ${ }^{\text {athins? }}$
"'Snows, does it?", exclaimed Bertie. "Better fill up the llask then, and put a half- dozen cigars in my coat-pocket-and, I say, Collins!"
"cuess." mea couple of ham sandwiches while I
In fifteen minutes Bertie had received his last istructions from Mr. Arteman, and was bowling
along the Euston Road to the Midland station. That immense terminus looked warm and com fortable in comparison with the wet and chilly night
outside. The Pullman train was at the platform, ready to start. There were very few passengers:
Bertie took a sleeping-car ticket, and without loss of time tucked himself ap comfortably in his berth The train started soon after this, and Bertie Tyrre
was rapidly whirled into the land of dreams. But his dreams were pleasant dreams, and if he
had not been conscious of the penetrating cold, he had not been conscious of the penetrating cold, he
woull have enjoyed a
whood night's rest. He shivered and awoke, The lamp was burning dimly
The steady "whirr", of the fast-flying wheels told
The that him that the train was rushing still on through the
stormy night. Something fell on the lamp there stormy night. Something fell on the lamp-there
it was again. It came in through the lattice over his bed. It was snow ! Easier said than done. No efforts of his could
induce Somnus to pay him a second visit. The
chilly feeling he had before experienced compelled
him to put on all his wraps. Then he got up, took a sip of brandy, and went out upon the platform of the carriage to smoke
Oh, the cold nipping win ${ }^{\text {' }}$, how it darted in be-
tween the carriages
Bertie had to hold on to the tween the carriages ${ }^{\text {I }}$ Bertie had to hold on to the
hand-rail tightly. But what a scene it was,! A vast white sheet had been spread o'er Nature's face
and she lay as if dead beneath it. Every now and and she lay as if dead beneath it. Every now and
then a gentle swell or undulation in the surface then a gentle swell or undulation in the surface
looked like a heaving breast as the fiery monster
hurried past. The invisible flakes fell thick and hurried past. The invisible flakes fell thick and
fast, and bore upon the angry blast the white veil fast, and bore upon the angry blast the white vei
closed around them. They knew it not, but as closed around them. They surely as the clouds were overhead, the mighty engine was rushing into a t trap laid by wint
the pure, white, gentle flakes of soft snow.
As the train flew along the track, little snow
storms came up from all the wheels. in clouds powdering dust. Bertie was fascinated. Pas sleeping towns and villages, past black chimvey,
rising into the murky sky from white unsullied roofs, past close-shut windows 'neath whose sashes the yielding but resistless snow wormed itself like herring-bones, and hung outside in slow. dissolving
flakes for King Frost to weld closer. Past a hud ded heap of humanity, beneath the shelter of the
dembankment, on which the merciless though tenembankment, on which the merciless though ten der falling winding-sheet was surely wrapped
Past all these, and many more sights, did the Pull man carriage rush and scream, and yet no stopping for the train.
But ten miles farther on the trap was laid. In a
deep cutting, the northern wind and drifting cloud conspired to do battle with the boasting power of man. Lie closer still, $O$ drift! ! blow flercer still, O wind! Ye wait the daring monster who boast, he can out-strip the
A roar through a tunnel-Bertie had once again
turned in-the train emerged it slackened speed turned in-the train emerged; it slackened speed a long deep whistle. The engine stopped dead melting it for one brief half-minute; the water dashed at its enemy fire, and hissed its vengeance in its burning ears. The fiery foe collapsed, the mighty monster lay imbedded in the dritt, harm tests.
Clouds of steam anxious to be free from that
fatal cutting rushed upwards and disappeared, or fatal cutting rushed upwards and disappeared, or
unable to escape, fell in warm tear-drops on the unable to escape, fell in warm tear-drops on the
virgin snow-white carpet. The engineer let the boiler run empty, and sent his fireman back to the last station for a a
against the snow.
against the snow.
The soft, the gentle snow !
The passengers awoke, and shivering came one
the questions and not waiting for repliea. No need to ask what was the matter a second time. The helpneath the snow-clad embarkment. A bank in front, a tunnel behind yawning a boting wind and meuse hole cut in white paper, a biting
driving snow, told the tale all too clearly. Snowed up! Not a doubt of it. When could
assistance arrive? Where there any ladies in the train? No ladics; only twenty-two travellers, and all men.
An hour passed. A scout who had gone ahead
reported the drift almost impassible even on foot, and the wind at the end of the cutting rendere progress highly dangerous.
where they were till day-light, at least. in the Pullman sleeping-car than upon the
of the fatal snow-drift, that winter night.
But Bertie was due at his Manchester office at uarter to four. He must get on, and he expressel his determination aloud to his fellow-passengers.
"I will accompany you. Where are we, "II will accompany you. Where are we know, where though, gentlemen, exactly. Ask " Ben," the engine driver, informed them that they were about an hour and a quarter s run
from Mauchester, and added a word of caution But Bertic was dettermined to push on and, accom enturous expedition.
venturous expenition.
Once out of the cutting they trusted to be free.
Surely the stoppage of the line would be tele graphed by this time and, perhaps, a train in wait-
ing to take them on. so they stepped manfully
out, sinking deeply at every step, but still making
progress. progress.
The sno
The snow had ceased; the sky was clearing fast,
nd frosty-looking stars. peeped out to view the nd frosty-looking stars. peeped out to view the
desolation. The wind was bitterly cold. Every now and then the snow would be dashed in their aces, as by handfuls ca
bstruct their progress.
For awhile they kept side by sid For awhile they kept side by side. Struggling
gainst the blast they pressed on till unknowingly, hey mounted the side of the cutting, and wandered far away across a level field, and over the
distant hedge, covered up with newly-fallen snow. Tie sudded ease with which they stepped now had the very opposite effect to what might
reasonably have been expected. They knew they heasonably have been expected. They knew They must regain it at any risk. But the two older heltered comparatively behind the hedge, in only ioot of snow, till daybreak. Bertie rashly
his mind to return in his tracks, which wer plainly discernable, and against the advice of comrades he acted upon his resolution.
His one idea was to reach Manchester. If he id not succeed in averting the impending crash
here, all his prospects would be ruined.
His hopes of ever winning his lady-love would be completely shattered, and what was life withont love? He nust succeed, though he perished in the at-
So he manfully struggled on-at times up to his knees in snow; once completely buried in the drift:
he fell down, down, until nothing but a sniall star he fell down, down, until nothing but a smaill star
was visible overhead. The snow kept closing in. was breathed hard upwards towards the hole. (His hands were fastened to his sides by pressure of the
drift.) By breathing hard at the tiny hole it bedrift.) By breathing hard at the tiny hole it be-
came larger and larger. The snow melted and he got a hand free. At length he got his head out, and after a severe struggle he fell forward, half innsible from cold and uervous exhaustion.
rolled over the harder snow for a space; down,
it own-it seemed as if he wo crash of glass, or ice, a moment afterwards fell upon his half-unconscious ears, and he lay insensible ou the gr
The spirit remained in the body, but the clay nement refused to acknowledge the presence of
ne master. Sense lay wrapped within the brain and master. Sense lay wrapped wind the sullenly closed lids. Speech was
and bere but somehow it could not force its way there, but somehow it could not force its way through the stubborn lips, The ears were open to
catch the slightest sound, and eagerly they drank it in; but the shaken nerves refused to listen, or at best only grudgingly as yet.
And thus lay Bertie in a trance-dead, and yet alive; ready to speak, dying to utter his thoughts, pressure on the brain was not yet uuloosed, and But But yet things were curious mixed up around
him. He could move his hands and feel he was ying upon soft cashions. Dull to his ears arose he sound of those horrible whirring carriage in the railway carriage, en route to Manchester. Still people were about him. Feminine fingers inistered to him-that gente touch hust now wa ery diffcrent from the other tender finger
some good Samaritan, probably a doctor.
The subtle odour of a lady's presence clung
sweetly around Bertie as he lay sensible to what sweetly around Bertie as he lay sensible to what passed, but unable to form a word, or
hanks, or even recognise the gentle care. Once he essayed to open his eyes, and, oh ! how
he vision of tliat one fair face he loved hung over his half-conscious brows, and was for a second 1 ho ographed upon his brain! No-it was gone-a
monent more and the dull whirr of the revolving wheels, the even motion of the Pullman car, al seemed to hold hi,
the soft cushions the soft cushions,
But this could not last. By slow degrees the hain tresumed its sway. He opened his eyes. Thines were very dim to him, and the cold, chil
hand of Death apparently was on him. He could hand of Death apparently was on him. He coulld
not move his heal, but as he gazed with dull halfopen eyes, the vision of his love rose up to bid him
Oh, Iovely vision! it came nearer welcone. Oh, lovely vision : it came nearer and nearer-it would touch him : yes, it bent down,
and breathing a soft petition for his recovery,
vanished.

Whirr-whirr-whirr
Did he dream still? No; voices distinctly fell
upon his ears. Where was he? A shrill whistle upon his ears. Where was he? A shrill whistle ment of the car he had felt, or fancied, seemed to cease.
"Hush !" some one spoke. $\quad$ Bcrtie opened his
eyes. He was dreaning still. eyes. He was dreaning still.
upon a cushioned berth in a Pullman ${ }^{\circ}$ He lay The lamp burned very dimly overhead. Daylight penetrated the curtains round him. He felt very How had he got there?-what had happened?where was the snow?
He called out. A gentleman entered softly.
"Where am I?" inquired Bertie, faintly. "Hush, hush! quite safe; do not agitate your-
self," replied the doctor, as Bertie fancied the new-comer to be. "We have got you round $\begin{gathered}\text { new-con } \\ \text { nicely." } \\ \text { " But }\end{gathered}$
"
" But where am I?" persisted Bertie.
You are at Ambergate Junction.
"I must go to Manchester at once. Help me p, please
"My dear sir, it is quite imposssible to move you. You have had a very severe fall, and must be kept
quite quiet. We have telegraphed particulars to Mr. Arteman. You cannot be moved.
This was decisive, and the doctor left the berth.
Yet, as soon as his back was turned, Bertie made Yet, as soon as his back wast turned, Bertie made
an effort to rise. With difficulty he repressed a scream; the pain was acute. He at once perceived that movement, even in bed, was out of the question at present, so wisely he determined to
await events. His thoughts naturally dwelt upon the happy vision he had seen, and he foolishly accepted this as an omen favorable to his ultimate
happiness. At lengtl he fell asleep. He awoke very hungry and saw
He awoke very hungry, and saw the doctor at
his side. He put out his hand, whichíhertie took and clasped warmly in his own. The kind doctor made a careful examination of his patient and then
said-
sara-
"You are much better this evening, I am glad
to tell you, and as soon as the stiffness wears off to tell you, and as soon as the stiffness wears off
you will be all right again. I may tell you now that we have had a telegram from Mr. Arteman.
He is at Manchester, so your natural anxiety may He is at Man
be allayed."
"Oh! thank yeu, thank you," exclảined Ber-
", with fervor. "You have indeed put my mand at ease."
"I was enabled to tell him there was no danger,
so he went on this afternoon. He saw you while you were asleep.
Bertie stared, as well he might
"Yes," continued the doctur, "you have slept
or thirteen hours. "Indeed!" was the patient's only reply. "But "Indeed was the patient's only reply. "But
T say," he aded, "how did I get here? I rew
member being in the snow, and I think I fell " "I should think you did," replied the doctor. in snow." "I ann afraid I am still confused, doctor, for I do "You rolled down the embankment into the
windows. We were snowed up in the great cutting on the up-line. Another train, yours, proba-
bly, was at the other end. Yon in your excursion tumbled into our windows. It was yery forcursion for you that you didn't roll over the parapet into the river, my lad."
"And very lucky," said Bertie, gracionsl, ", "that
ou happened to be in the train, doctor," "You have not to thank me so much as Mr. and
Mrs. Patterson, sir; and they telegraphed to Mr. Arteman. "Mr. and Mrs. who?" exclaimed Bertie, sitting
up quite regardless of his bruises. "Patterson did up quite
you say.
"Yes
"Yes; do you know them ! They did not appear "Yes-no-I know a Miss Patterson-I-"Whew!" was all the doctor's answer. "What! Is there a Miss Patterson" Is she
here? Is she-was she in the train"? Alice is her name." "That is the laly; she nursel you until I came. Her mother is an invalid rather. They, were
caught in the drift last night, like yourself," caught "Mhere is she, doctor" Did s're leave a mes.
sage?"

The doctor's eyes twinkled.
actly, but she gave me special directions to let her hot exactly, but she gave me special directions to let her
papa know how you were. This is the address." He took an envelope from his pocket-book and
handed to to Bertie, who read: "Harvey Patterhanded it to Bertie, who read : "Harvey Patter-
son, Esc., , atafternoon.
"What's to day?" inquired Bertie, hastily.
"This is Thursday. It is seven o'clock p. m."
"Doctor," exclaimed Bertie as he recalled the vision of the day before, while he lay
sible, "II shall go to London to-morrow.
The doctor smiled. "What, and leave Man, chester 'business! But seriously I think you
searcely fit to travel. Well-well, we shall see," searcely fit to travek. Well-well, we shall see,"
the continued, as Bertie raeted his head impatienthe continued, as Bertie rowed his head impatient-
ly. "We sall see. Keep quiet now and I dare
say you will be well enough to go to London. Good ly. "We shall see. Keep quiet now and dare
say you wwill be well enough to go to London. Good
night."
"Good night," And then Bertie resigned him. "Good night," And then-Bertie resigned him-
self to blissful thoughts, and happy agnticipation for the morrow.
Two ${ }^{\text {o'clock was striking at Westminster, when }}$ sitting-room at the $\longrightarrow$ Hotel. There was 3only one occupant of the spacious room-a young
lady whose good, sensible, and bright fabe fighted up with a softer expression as she read the name
of hêr visitor. of her visitor.
"Show him in, please," she said camly, yet the palpitation beneath the well-fitting travelling-dress The waiter ushered Bertie in and quickly re-
tired. The young man waited till the door, was tired. The young man waited till the door, was
closed, and as Misss Patterson stood up with out of greeting did he speak. He only gazed for one moment intolthose eyes of liquid blue the eyes
grew tender and then the shading lashes trembled, grew tender and then the shading lashes trembled,
but only for a second, But Bertie could read.
Without a word, he clasped Miss Patterson this arms "My đarlingt" was all he said. She struggled to free herseft, strongly at first,
but as He whispered something in the crimson sheli-like ear chose to his trembling lips, the pretty head sank upon his shoulder, and the sile
When Mr. Patterson came half an hour after
wards he found a prospeetive son-in-law seated on wards he found a prospeetive son-in-la
the sota, holding his daughter's hand.
Explanation ensued; the upshot of it becing that France. He was married in the ensuing summer añ he always considers that he owes his presen happiness to having been SNowed UP。
HENRY FRittr.

## The Island of Cyprus.

Since the English came into possession of the
sland of Cyprus, by the recent Treaty of Berlin, a great desire to learn something of the characte of the island has been very naturally developed
The following account of its climate, character The following account of 'its climate, character
\&c., from the London Cardeners' Chronicle, will be interesting to our readers
 $8^{\prime \prime}$ east longitude from Greenwich, and with the argest island in the Mediterranean Sea. The Southwestern portion (nearly half of the area) is mountainous, the highest peak, Troodos ancien eet. The North coast is also skirted ly áa narrow range of hills, which reaches 3000 feet in height. sive plain drained mainly by two rivers-a large sive plain drained mainly by a small one flowing
one tlowing eastward, and a smand
westward. In the lowlands near the coast are westward. In the lowlands n
several inexhaustible salt lakes.
'The Southwestern mountains consist mainly and marl. Here and there are beds of gypsum and isolated spots of Jura limestone and Vienna sandstone. The North chain is built up almost entirely of limestone, invervening plain of post-
sandstone, and the inter
tertiary deposits of a very complex character. tertiary deposits ${ }^{\text {of }}$ a very complex character.
Marl, sand, sandrock and conglomerate are the Marl, sand, sandrock and conglomeraxe are from
principal elements. These deposits extend fore
the sea-coast up to 200 feet, or even 600 feet, and are spread over all the lower parts of the island,
forming a not very fertile soil.

Any one thinking of going to Cyprus would
regard the climatal conditions as of the first im-
portance, hence a little more detail portance, hence a little more detail on this point
may be desirable. There is no doubt that summer is excessively hot, so hot as to have a paralysing effect on the pursuits of men ; on the
other hand the winter is pelatively cold other hand the winter is relatively cold, and often
it becomes necessary to have recourse to artificina heat. Thymbra spicata and Poterium spinosum, the two commonest shrubs in the island, are frequently used to warm dwelling rooms. The change
from one extreme to the other is very sudden, no spring or autumn interveniug. In the midst of summer the temperature often exceeds $100^{\circ}$ Fahr. the freezing point in winter, the cold makes itself
felt very much, because the means of protection celt very much, because the means of protection
against it are so inadequate. But the mean winter temperature is not sufficient to arrest vegeta-
tion. Indeed, there is what may be termed the winter flora, which is already over at the beginning of March. Winter (October, November and
December) is the rainy season, whilst the summer is cember) isithe rainy season, whilst the summer
is rainless we an uninterxaptedly cloudless sky. Sometimes in winter rain falls during thirry to
forty days in speession and vegetation is reaniforty daysen sueession, and vegetation is reani-
mated and reinvigorated. The parching heat and continuous drought of summert however, use up the accumulations of winter, trooks and rivers
present dry chaninels, and vegetation ceases present dry channels, and vegetation ceases. Dur
ing the rainy season the Pedias, the prin cipl river in the rainy season the Pedias, the prin cipl river
in the island, often overflows its bank 3 , and the contiguous land owes its fertility to these periodic
inundations. Nearly all traffic in the lowetpart of the 'island is interrupted during th' 's' period occasionally the overflow assumes the di nensione
of a flood, causing considerable damage. It is also recorded that no rainfell on the island during
thirty-six years, infthe reign of Constantine, consequently most of the inhabitants were obliged to leave the country. During the whole time (Mareh there was scarcely any rain. The harvest is over in May, atter which there is nothing but the
depressing stubble fields to be seen, look in what irection we may. Even flax, the latest of the
crops, is already turning yellow. Cotton is the only summer crop, and that can be grown anyWhere artificial watering is possible, In June and
July the formation of dew ceases, and the atmosphere becomes charged with a dense vapor, which
peils objects even at short distanices. Added to veils objects even at short distances. Added to
this, the slightest wind cause cloudd of penetrating dust to rise, and insects abound whose torment
is impossible to escape. The malaria prevails at the sea, ports, and alkwho can, avoid them as much as possible during the months of July and August.
It is described as a dense white fog, which spreads 1. ver the plain, and even covers the mountains
ovith its unwholesome ving With its unwholesome vapor. Day after day the
fierce heat continues, and all business is done in fierce heat continues, and all business is done in
the evening or during the night. Sunstroke is
frequent amongst those who venture out during fre event
fhequent day."
the day

## (enomurercial.

$\left.\begin{array}{c}\text { Farmerts Advocatr oprice, } \\ \text { London, Oct. 1, 1878: }\end{array}\right\}$
The past three weeks have been the dullest for the time of year that it has been our lot to record vailed during the latter part of August and first few days of September has been followed by the opposite extreme. The same applies to dairy products as well as grain.
Wheat.-The shock caused by the sudden de cline in prices was such as to cause the demand an deliveries to fall off almost to nothing. Both buy ers and sellers are now beginning orcoser, and past few days. There is no doubt there will be a good demand for our wheats fallen off for the time being, but will-no doubt revive after they get over the shock of the late enormous shipments on their account. The crop in France is said
poorest they have had for many years Pess.-The deliveries have been very light and
the samples very irregular. In some sections the crop is almost a total failure between the bugs and
ad weather. Other sections of Ontario report a air crop with very few bugs. If corn was scarce we should look for higher prices, but in the face of n abundant corn crop and low prices in this artie, as well as wheat, we can not see much chance rany very material advance.
Barley is being sold nearly altogether by sample, which is so irregular that any uniformity in rice is impossible. We think good heavy, bright arley should be good property
Butrer continues very Bems to be full of a class dull, and the country seems to want. What is to be done with much of his article is a query to us. It may be the means of bringing about a much-desired reformation in his branch of trade, and if it does this it will have done good. The sooner the town and country torekeepers, as well as the farmers, become alive to the necessity for a radical change, the better it will be for the country and themselves also. Cherse is much the same as butter, only not so
ad. A Montreal paper some weeks ago called the ard. A Montreal paper some weeks ago called the attention of its readers to the fact that the Westin or Ontario cheese trade was being controlled y a cheese ring. Some one undertook to write or ther weak and futile. Who r how far they have been successful we are not roing to discuss. One thing is certain - prices have been kept up or propped up above their real and legitimate level all the season, and only now are they down to a fair level with Little Falls and New York. A dealer told the writer a few days ago hat he had purchased some 40,000 boxes of cheese his season, but out of this quantity only some ,000 were Canadian, and why? Simply because e could buy cheaper in New York, and also whenpurts hanled, whereas with us the market is in cannot at anything like the market price. This in $N$ dealer assured us he would buy exclusively much like a ring, or an attempt to block the market, when dealers will go out and buy one or two factories at such prices as an advance of 15 shillings on the cable quotations does not warrant. There is too much speculation on the part of the dealers, nactory much inclination to follow on the part of little more than anybody else. The market continues dull, and in the face of the heavy fall make We can see no chance ore of the opinion we shall not see the cable 50 shillings before the first of January, 1879. Apples are only a partial crop. Those having good winter apples should take care of them, as they will bring a good price if well kept.
Potatoks are but a medium crop in Western Onare better reports of this crop from the eastern provinces and from the northern townships. They will be dearer in the spring.
fuite as cood as it was for common horses is not animal will bring as much as ever.
Cattle and Sheer. - There is a good demand or well-fed, heavy cattle for shipping, and sheep
for export are in demand. 'The difticulty among ouyers is to find them in large enough quantities in


London, Oct. 7,1878 The market was poorly attended, and supplies
of all kinds of produce on a limited scale. Saturday's figures repeated.


The day passed quietly in all hronto, Oct. 5. The day passed quietly in all branches. Hold-
 tra, but the demand was insufficient to. result
basiness.
The only sale reported in wheat was
 being worth 8 sct to co, and the third 80c. Barle
was very quiet; one car sold by sample for 990

 No. 3, and 700
oats nominal.
On the street market 2,000 bushels of wheat were taken at 80 c to 98 c for fall, and 70 c to 94 C
for spring : abont 15,000 bushels of barley to \$1.07 according to quality; 200 bushels of peas

 a good supply oo pound roll butter at 1 ae 13
a foir quantity of fair large roll butter at 13 to 14 c c ab dairy at 13 c to 15 sc store packed at 8 c to 10 c eggs in large lots rather plentifully at 12 c to 12 ta a
and eggs from farmers in limited supply at 14 c . ${ }^{\text {and }} 15$.

Wheat-Quiet; Nswego , Oct. 7. Wheat-Quiet; No. 1 red Wabash at 81 , No. 2,
white tate at si, No. 3 do at 950 ; No. 1 red State at 81.02 , No. 2 do at 98 c Corn-U1
 rye, Gicc barley, Ge to to Now Yoatk; barley, corn an Albany; 9c to Philadelphia. Lake Receipts-
3,900 bushels of wheat, 93,000 bushels of loarley 393,000 feet of lumber.

## Flour Market

$$
\text { Montreal, Oct } 5 \text {. }
$$

The flour market is weaker, and buyers are ask ing for concessions of from five to ten cents all
round.
Quotations :-Superior extra, $\$ 4.47 \frac{1}{2}$ to round. Quotations :-Superior extra, $\$ 4.47 \frac{1}{2}$ t
$\$ 4.55 ;$ extra, $\$ 4.372 ;$ fancy, $\$ 4.37+$ spring extra
$\$ 4.25$ to $\$ 4.30 ;$ strong bakers $\$ \$ 4.50$ to $\$ 5$ fine $\$ 4.25$ to $\$ 4.30 ;$ strong bakers', $\$ 4.50$ to $\$ \$ 5 ;$ fine,
$\$ 3.20$ to $\$ 3.25 ;$ middlings, $\$ 3 ;$ pollards, $\$ 2.50$ to
$\$ 2.60 ;$ Ontario bags, $\$ 2.10$ to $\$ 2.20 ;$ city bags, $\$ 2.60$, ontario $\$ 2.25$. No ousiness is reported beyond a
$\$ 2.20$,
few small sales of double extra at $\$ 4.471$

## Dairy Market

Little Falls, N .
Over one hundred factories were represented Therer one hundred factories were represented.
 farm cheese sold at $8 \frac{12}{2} \mathrm{c}$ to $9 \frac{12}{2} \mathrm{c}$, most at 9 c to 9 련. 130 packages of butter sold at 18 c to 21 c .

Live Stock Markets.
Buffalo, Oct. 7.
 hogs to St. Louis; light at $\$ 3.15$ to $\$ 3.30$; mixed packing at $\$ 3.25$ to $\$ 3.40$; heavy s
to $\$ 3.60$. Receipts, 1,500 heads.

Chicago, Oct. 5.
The Drovers' Journal to-day reports as follows:
Hogs--Philadelphias at $\$ 3.60$ to $\$ 3.70$; good shipping at $\$ 3.30$ to $\$ 3.50$. Cattle-Market steady; shipping steers at $\$ 380$ to $\$ 4.80$; Western cattle at $\$ 2.9$ ot o $\$ 3$
Unchangel.

Hogs-Light grades selling at $\$ 3.40$ to $\$ 3.45$
 active.
Sheep- $\$ 4.25$ to $\$ 4.75$; calves- $\$ 5$ to $\$ 7$.
Viger Cattle Market.
Montreal, Oct. 2.
This market was exceedingly dull to-dy. Only
ne or two moderately good milch cows were one or two moderately good half-a-dozen cows of
offered for sale, and not over any sort were sold during the forenoon The prices obtained ranged from 10 for a stripper to
$\$ 3$ for a pretty good small-sized cow.
gry few butchers visited the market this forenoon, as they
had bought all they required yesterday. About had bought all they reywired yesterday. About
100 head of beef critters were offered for sale, but
sut 100 head of oee cr them were in the afternoon
several droves of
taken away to grass to wait for a better market.


#### Abstract

ome sales of thin and small cattle were made at ery low rates. Mr. G. Bourdeau, of Lawrenceeery low rates. Mr. G. Bourdean, of Lawrence- ville, sold seven cattle, some of then full grown, or $\$ 70$. These cattle cost more money at the place or \$77. These catt.le cost more money at the place where they were bought. D. MacMillan, of where they were bought. D. Machillan, of Williamsburg, had four remarkably fine calves on the market to-day, but did not sell them, alhe market to-day, but did not sell them, al- though offered $\$ 40$ for the lot. The supply of sheep and lambs is farger than the demand, and, as the demand to ship to Britain has almost ceasas the demand to ship to Britain has almost ceas- ed, prices of good sheep are lower. Good lambs ed, prices of good sheep are lower. Good lambs are in fair demand, but there are altogether too are in fair demand, bun there are Serke.. Seval flocks many poor ones hrought to marture were to-day taken away to pasture, as their owners were to-day taken away to pasture, as their owners could not sell for the original cost. Most of the could not sell for the original cost. Most of the lambs being brought to market are rams, which the farmers are selling at whatever they will bring, and thereby glutting tho market with a poor article, causing considerable loss to the raiser. If If these ram lambs had been changed to wethers While young they would be in better condition for sale now, and also could be kept over without any loss until the most convenient time for bringing them to market. Mr. Cross, of Chateauguay, sold fifty wether lambs to $\$ 3.25$ each. -Witness.

\section*{Montreal Horse Market.} The past week has been one of the dullest of the season in he here trade nor doos the coming eeek ive much prom- he of inprovement in this ine ise of improvement in this line There were no shipments on orses from this city to the United States yesterday, being ores    the local market. auction at Magure's trom 833 to 880 enct


British and Foreign Grain Trade. The Mark Lane Express, in a roview of the British The Mark Lane Express, in a roview of the British corn
rade for the past week says:- The fine weather continued
hasi week, and the harvest of the Kingdom is pretty well


 Businesin in maize and oatstook place to thar oe extent
sumptive requirements without $a$ speculative demand.

## The Harvest in Britain.

The Mrurk Lane Express states that a large quantit' of
heat has doubtless been secured under favorahbe condititions





 ticipated, and all tha:
for the ingatheriny.

## Cattle Markets

The market has been момтгкад.









Latest from the English Markets.


Dairy Markets
CIngse.-The weather hew horn. very warn, and goods gen
erally have arrived in had order: thls, together with the



BUTrTRR-The butter market is firm and all grades find
ready sale at quotations.
Fresh made is in brisk demand, as


## Montreal Dairy Market

 unprecedented. The more natural course of the Unite
States markest seensto to be giving the Americans some adval
 freely paid there with 9 e exceptional. Sales are so few, either
in Montreal or the Canada country markets, that it is iffifult

very ex
ser dow
price. BUTrRR.
A hearty trade continues for the fresh-made, well-gelecteded
parceels, while eall other kinids are either neqlectected or bught






## Cheese Market

This market has, for a week past, been gradually losing
strength until to-day, it is only by dint of great effort that







drw sulurtisments

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acinths, Tulips, Crocuses, Snowdrops, Lilies, etc.

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$\qquad$ flowers), 6 late Tulips, 6 early do

12 single Snowdrops, 24 Crocus, assorted, 4 Polyan-
thus Narcissus.
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