

LONDON, ONT., JULY, 1873.

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The coming Provincial Exhibition
accommodation for farmers.
We expect the coming Provincial Exhi
bition will eclipse any previous Exhibition that has ever been held in this Dominion both in the attractions displayed and is No city in Canada can really fine and well-kept farmers' hotels a London can. In speaking of farmers' ho tels we mean respectable houses kept up
and maintained for and by the farmers. Still, the accommodation that can be had at these hotels will not be one quarter sufficient for the demands that will be made on then.
tant parts of the country will find great tant parts of the country will find great
difticuly iup prucuriug slueler when night
overtakes them. Money often cannot overtakes them. Money often cannot
procure a com fortable lodging. We know proctre a loy gentleman who resides in
oue wealthy
Montreal that attended one Exhibition in this city ; he wandered about in quest o city, and would willingly have
lols in the city, and would willingly have given $\$ 5$
for a bed, but the only accommodation he could get was a seat in a chair, which cost 50 cts. Some paid 50 cts. for worse. We have attended these Provincial ag profess to know a little of their ways; we know there is a very great lack of accommodation for men during the Exhibition time, and far worse for women. The
Board of Agriculture is aware of this fact members of Parliament are also wel aware of it, and the Mayor and corpora tion of each city know it, but who has choice but to stay away or run the risk of a lodging on a bare plank, without any
covering, or hurry away with but a few covering, or hurry away with but a few
hours' observation.
Many desire to attend these large gathermeans be devised to accommodate man Let us hope that the members of the some steps to prevent the evil complaine of. An extra railway train might be run to St. Mary's and Stratford, morning and evening; another to Ingersoll and WoodStanley, to leave London homas and Port and return to London at 8 or 9 a. m. m. dur
ing the four busy days of the Exhibition. Another most beneficial plau would be to enact a law that every saloon keepe expressly for travellers or visitors. We
do not mean for coustant inhabitants of the house or boarders, but for travellers. These saloons are a great source of profit
0 the cities' grocers, lawyers, constables,
police magistrate and collector of licenses,
and increase the receipts of the city trea-
any be enforced, the number ould such a law be reduced and accommodation might be obtaine at reasonable rates when re .
Hotels also should be compelled to keep that are not occupied by weekly boarders Perhaps the greatest profit is derived from he sate of hiquors, and those that traffic in other necessary accommodation for The immense number of saloons and rinking stands, if compelled to make vellers and visitors, might become bles. ings to the public. If any little gather ing is held in any of our cities or towns at the present time, proper sleeping accommo If all these saloon
pelled to find accommodation for man combeast, the farmers' interests would be better served. If a farmer from a long dis tance drives into a town or city to any of
these gatherings, it is often only under in fringement of the law that he cau put horses and vehicles in a secure place. No tavern can be found to accommodate him
all the space is occupied by regular tomers.
Another accommodation is required. The the Provincial wives and families that attend the lack of water to drink or sufter for on. A few thousand feet of plank for grounds, would be found to parts of the pleasures and profits of the Association could be readily obtained would wate advantageous. The cost would be but rifling.
The public have a right to expect som Exhibition once, but the fatigue and lack of necessary accommodation to be procured and if them from making a second visit Thousands would be wishing to expen more time,say some days,if accommodation ould be had. Some may think forty people in a room, lying on straw stretche enough accommodation for 25 cts. at Exh bition time.
We hope the Board may make such arthyements with the railroads as to induce ening of each day. The Sorning and ev way might, perhaps, with advantare, carry jassengers at the excursion rate of 30 cta Fair week.

County Council of Middlesex of 187
This Council at its last session carried ardly palm of victory as the most nigver sat in this county, or, perhaps, in any Ther county.
Thave wasted the people's money lay after day, endeavoring to cut down he salary of the County Clerk from $\$ 700$ have been elected and decline to serve.A deputation waited on them to ask a when it should be held in this Exhibition coming autumn. Not one red cent would they give.
Do you Do you not think that any county or show their willingness when the farmars of the county have such an exhibition within a lay's drive of them ? But they who have no such opportunity of partalking of the pleasures and profits of the xhibition, to pay quite as much as they There are many noble and publie spiritmen in the Council, but pol tical feelon the other have aarned them a name That does no honor to the county.
hey occupy-a small room with a ceiling ou can almost touch. They cannot sit louse dining table. Twenty visitors. not find room in it. No prisoner in the ells or idiot in the Asylum breathes such when in session. a reporter ca to breathe accommodation there. The County Council may have just ta part of the expenses, but they might something toward it in a direct manner, hould it be in no better way than to beautify the grounds, erect seats or sink they could not aid the seed, stock or implement departments.
It is so easy for a public body to speak
gainst expenditures for one reason or another, and object to one plan or ano ther ; but for the County Council of Middlesex or any other county where large exmade in hove been or are about to be compelled to pay something towards such expense when they are such gainers by it. If these Exhibitions do good to farmers, surely the greater amount of good would
be to those who have an opportunity of attending them. There are times when public bodies are required to act with a public, liberal and honest spirit.

## FARMER'S ADVOCATE.

The Provincial Board of Agriculture.
This Board held a meeting during the past month; some very important business was befor
most so was the
slelequion of the judges
The Hon. D. Christie desired to have judges from the States on the Short Horn Guelph was his main supporter. A warm discussion ensued, perhaps the warmest the present Board has ever had
We were led to believe that Christie
was king of this Board, but Graham, Gibbons, Shipley and others oposed him and would only allow half of the judges to be much vexed at this therest
much vexed at this thwart.
We have to thank the late President the plain, bluff, unpolished Canadian farmer, Mr. S. White, for his audacity and pluck in this matter, although he had In this he opposed him, and prevents our cating the humble pie and annexation pill of allowing the Americans more pow than we have over our own business. ried by the deciding vote of Mr. A. Wil son, the President. We deem this an im portant step, and strongly commend the ericans are good customers and good ericans are good customers and good
neighbors, but we do not wish them as masters.
Surely we can select men with as much honor and as good judgment as they have across heir lines. Canadians should con-
trol their own affairs. If we want annexation let it be known above board. We have yet to learn that Canadians
desire annexation before we advocate that ineasure.
Murton
the judges on Guelph, nominates half side of the lines. Christie desired more. Not one quarter of the
nembers of the Board know anythin about these Americans that are appointed. The last time American judges were called in there was quite as much dissatisfaction expressed regarding the decisions as at any
other time. We think the Board has gone quite far enough in this matter of allowing half the judges to be brought from the States, all to be selected by
Ohristie, and all proposed by Murton, of Guelph, ilike the Americans' money, but when we cringe to-it for political elections interest and power and influence to them we may as well shut up shop and resign in favor of the stars and stripes. Reciprocity we have asked for, annexation we have not yet dreamed of, but Christie's Durham stock under the Americans is too much for Canadians to sanction. We hope to see thoso independent, plain farmers who resisted the measure as much as they
did, elevated to better positions and to enjoy more power.
two prince of waleg' prizes this year.
The Prince of Wales' Prize was withthe exhibitor to whom it was awarded. This year it is to be given to the best flock of Cotswolds raised by the exhibi-
tor. The other Prince of Wa'es' Prize is tor. The other Prince of Wa'es' Prize is
to be given for the best Durham Bull and to be given
five calves.
four ploughina matches
are to take place this season under the auof which the Association grants $\$ 300$ : alse, each electoral division in which the matcll is held is to contribute $\$ 25$ towards become ex officio member of the commit tee appointed for said district.
The matches are to be held at Ottawa
ort Hope, Paris and Chatham.
ation in their patronage to different parts
of the country, but Paris is rather near to of the country, but Paris is rather near to
Hanilton, which had the advantages of the Provincial Exhibition last year, and
Paris was selected for the trial of implements two years ago. We hope the Board will not quite forget the northern parts of Ontario next year, as there is a
large tract of country there that has comparatively little opportunity for the inhabitants to attend our Provincial gather-
ings. It might be well to aid them in ings. It might be well to aid them in tawa and Paris ploughing matches held at other points where the farmers have not
had such opportunities as they have had had such opport
We do not wish to condemn the acts of
the Board; we know why of the bers to be such that it would be difficult to select better. We merely throw out

## Agricultural News.

A company has been formed in this city
for the purpose of mauffacturing Indiafor the purpose of mauufacturing India-
rubber from the mik weed. They propose
to to plant out a small patch of milk weed in
order to find put what quantity of the rul) ber can be manufactured by the acre. The
projecters speak confidently of their ultimato projector
We know many farms where it would be quite unnecessary to
Another grub is taaking ravages in this
section of the country, cutting oft whol fields of grain. It is spoken of as a grayish
green grub, about one inch in length, and is so bat in some places that fields of grain sown. The gardeners are complaining that
the grubs are carrying off their cabbago and the grubs are carrying of their cabbago and
tomato plants. We read that some farmers
re are applying a light sprinkling of salt to their
fields affected with the grul, and they say with good effect.
They get into the centre of the onion and eat it out. If you notice the ends of your
onion topss ctting brown too early in the
season you may be sure the cason, you may be sure that you have a visi
rom the onion grub. A gardener of experience tells us that the best way to be rid of
them is to mix up salt and water (slight dose)
and pour sume ou the A very large company has been formed in
New York for the manufacture of artiticial New York for the manufacture of artiticial
butter. They buy up beef suet; it is put
 ter in bulk as itself. A steam pipe is intromembrrane yoes to the bottom of the water ;
the oily sulstance floats and is removed. temperature of $80 \circ$ makes the stearia of the floating on top, is drawn off and about 13 per cent. of fresh milk is added, with the noces-
sary salt, and the whole is steamed for ten or sary salt, and the whole is steamed for ten or
fifteen minutes. Those who have tried the butter say it equals the best. All the leading
steamship lines between New York aud Europe are to be supplied this summer with this
newly invented butter. Several of the lead ing men in the butter trade have taken stock,
and the discoverer expects that the new pro and the discoverer expects that the new pro-
duct will drive live cow butter out of the There is a storm brewing in England. Th
farm laborers there have had a Union fo some time which has forced a raise of wage
wherever the Union was established. The farners have now become alarmed and the laborers with, and there is sad work go
ing on. Men striking ing on. Men striking and farmers turning as yet but little violence, but that must be expected shortly.
Mr. Shiels, of Adelaide, expresses th
opinion that the usual practice of sowing timothy in the spring is not generally profit able. Too often we have dry, hot summers,
which completely kill out the timothy, and Weave nothing for next year. His practice i
to sow his timothy in the fall.
The wheat sowing in the vicinity of Nashus,


Farmers, Awake and Unite. We in Canada, who hear of the wonderful
fertility of the West, are apt at times to think their lots much pleasanter than ours.-
This last winter has made things look a little his last winter has made things look a littil-
different. By a general combination of railroads, freights have been raised so high that
it is worth almost as much to bring theircorn it is worth almost as much to bring theircorn
and other produce to the seaboard as it is and other produce to the seaboard as it is
worth when it gets there. This has caused a
general depression, and althoug a farmer general depression, and although a farmer
there may have a good crop, the value he
realizes from its reare may have a good crop, the value
realizes fom its sale orexchange is exced-
ingly small. This combination of railroads realizes fron
ingly small.
has therefor
west the ne west the necessity of a combination amongst themselves, and the work of organizing so
far has been so suceessful that they will force far has been so successful that they will force Celling the railways to take the freight at a ose oxtortionato rato, or huild new rai
to the west for farmers' freight alone.
The principles actuating the "Granges," as their organizations are named, may be
judged from the following forcible inscrip-
tios tions upon the banners in a procession of
5000 in Kawrence, Kansas, some days ago ' Down with Banks and up with Corn
No Quarters to Monopoly !'
Equal Taxation?
Cod Speed the Plough :'
'United We Stand, Divided We Fall !
'Live and Let Live?'
Faney Rings, Beware
'Less Officeses Less Laws, Less
' Leste
Core Justice! !'
'Industry Will be Rewarded :'

## - Farmers to the Front-Politicians to the

CPeaceably if We Can-Forcibly if We
'Pust? Yust !
'Reform or Revolution!
'Ven Pon
'Vox Populily !'
' Fraternity, Equality, and Fair Exchange We call attention to this movement in the
west for the reason that we will probably in a few years be suffering from the same causes that they are now.
There is a tendency among our railways
now toward combination for excessive char We know very well how unequally
hey now levy their rates for local freights in Canada, and how careless they are as to whe-
ther they properly attend to the business, her they properly
unless, indeed, it is for one of our big mer chants; then they are obsequious enough.
Why is it that the farmer is not treated with every respect and attention when he is and the rates of travel are inereased uppon him because he only wants to travel a short istance. We farmers have to pay for these
railways, and we must and will have our rights spon them. If we oonly demand it of
our representatives in Parliament they can our representatives in Parliament they can
compel the railways to deal justly by us.

## Farmers' Rights.

We, as farmers, have rights, and we maintain them. Trades, professions cito ens and politicians unite their strength nd demand and obtain their rights ; the armer is the common prey for all, and he
as to pay for all. You cannot be
ous strikes for higher wages, shorter hours and guarded privileges of the various meIt is time that we should begin to cossions. for our rights, to unite, demand and obtain them. The latest combination injurious to far-
ners that we have heard of is the aurveyors' league.
Surveyors merely require a yood com-
mon education. Oommon school teachers non education. Common school teachers can survey; farmers and farmers' sons
that have passed through a common educational course can survey. There is nothing difficult in it to any one having studied Euclid Geometry, but surveyors
have a law to protect them, abled to prevent any one but themselves rom surveying. They were well enough compensated when the law gave them the privilege of charging $\$ 4$ per day; not being satisfied, they have been combining
and have now put up their charges to
per day, this to be charged for eight hours work, and the day to count from the time hey leave their office until they return.
This must tell mast settlers; it must take the farms and homes from many a poor back woods set has. Sometimes a surveyor may and one or two weeks, under pretence place for ing for his astronomical pretence of wait The present combination enables them to ncrease it still more.
The surveyor can
per day ; besides, all expenses bave $\$ 21$ per day; besides, all expenses have to be
borne by the employer. This combination
is as yet only in is as yet only in this western part of Can-
ada.
A settler may take up a Government the boundaries of his He must find out live within 10 orloo miles, and the sur-
veyor has the pown mat veyor has the power of making the settler to run a line, and then the land cost him surveyor is not responsible for the worl doue.
We Waid careat speak from experorience : we have thing, and find the work not as well done
as a common school boy the law prohibitsool boy could do. But tects many an incapable surveyor. The
loss to tarmers loss to farmers is now enormous for these
bungling acts of legal surveror If the
farmers' sons were to be allowed to survey the level would soon be found and good We believe that be run.
We believe that our individual farmer's loss occasioned by the Government sur
veyors authorized and paid by the Govern ment, exceeds the sum of $\$ 5000$, and no recompense from the Government.
And this extortion might $g_{0}$ on un-
checked and without comment, if we had no other paper than those devoted to polinot condemued our this combination of have veyors. From this and hundreds of in
stances farmers may see the sity of their having a farmers' paper such
sol as the ADVOCATR, and by their liberal sup port maintaining it in a position to serve them effectually. We have for years con-
tended for the rights of farmers, and until now at a great pecuniary sacrifice. Our increased and increasing sarculation is a testimony that farmers now recognize the doing the may have been the means of
doing advocating their interests and we intend to prove ourselves worthy of that support by maintaining thei rights and opposing every measure that
may be injurious to them, whet may be injurious to them, whether it is
from the combined members of a profes sian or from Legislature or Government.

The Ontario Agricultural Em porium.
In our last issue we published the Act of Parliament chartering this institution, readers, to ascertain the spirit existing in readers, to as
regard to it.
We regret
We regret that the responses have not have spoken to several leading farmers, most of whom would like to see it established, but few would be willing to aid it.
We addressed the agricultural committee of the County Council of Middlesex, the majority of whom were favorable to it
in fact, the only obstacle in its way raised by any one of them was that they did no now, as the Government Farm would be sufficient.
This was expressed by Mr. G. McGugan
one of the reves one of the reeves of Lobo; he is a plain,
practical farmer, and his views probably are the views of the majority of the farmers. the establie confident of the success of working order. It requires but two or infee gentlemen with a little capital and
influce to make it a success. Our capi as has not been sufficient to carry it out
as it ould be, hence the necessity of a

## FARMER'S ADVOCATE

company, which could not be formed with $-~$
out the charter The locality of the establishment would entirely depend on the stock hollers.-
Some might hold forth such inducement 03 to cause it to be established in their county. We might have had the institu tion in rumning order ere this, had
we allowed party politics to be tid we allowed party politics to be the
ruling influence of it. We may have been rungs infuence of it. We may have been
wrong in our views, expectins that such
could hecome a success without the sid of manty We look on both parties as
matebter t. us even for the ster wiey have tiken to establish the Governhat it is from our attempts and applica Our views ou it ore to form. Our views on it are to be found in the
'anadaF'rmer, before we commenced to publish this paper, and it is only since ou ayitating the phans and applying for a harter that the rovernneut took up the prevents us from enjoying the fruits of our labor, they should remunerate us in some way. Our farm has been more neglected
since we commenced the Emporium, as jur time has been devoted to other sub managed as well as they might have been still, despite our various trials, and they say our labors have not been in vaiu. The farmers in many sections of the country acknowledge the benefits they have re circulation of the farmers' advocate.
The increasing circulation of the AdvoATE is the strongest testimony to the abors. During the last six months the ane period ben grater than in tho tence. This appirceiation of our endea the due effect of our laboring to deserve till more the patronage extended to us,

Plaster on Gralin Crops.
The other evoning we paid a visit to
Mr. Practice. Mr. P. enquirel for our Mr. Practice. Mr. . enquirel for our with oats ; the crop was up, but not ove viyorous, He wished to know if we con-
sidered plaster sowing would benefit the oats if sown at
six inches ligh
We reppied that our opinion was that it would benefit the crop very materially
we have seen srain crops look much mord we have seen grain crops look much moro Mr. P. referred us to a repert of the
French
Agricultural College: It stated that plaster of Paris had been given to 20 crain ; 19 out of the 20 who tried it re
ported that it was of no alvantace what ever to the grain. They had no more in
quantity nor was the quality better, but quantity nor was the quality hetter, but
there was an increase in bulk of straw.
This we should take as reliable author ity. None pretend to deny that it is
allvantaceons to grasses of all kinds,
 Wrope have frepuently applied it to corn,
and always believed it to be beneficial to the crop, and still, despite the report, we
feel inclined greatly to believe it to be seeding or for a grain crop Perhaps some of our readers will test
this by plastering a few rows of corn, and caviny a few rows unplastered, and meaducer from an equal lenyth of rows o sion that the corn is longer maturin where plastor is used. Perhaps some
you will aid us with facts from trial.

## Grasses for the Baivy.

A correspondent of the National Live cresting report of a discussion on the the Best Grasses for a Dairy Farm at neeting of the Western New York Butte raker s Association. We give it na mportance to our readers.
S. Hall objected to the statement of a
writer that " the sire has more intuene Writer that "the sire has more influence
on the offspring tlan the dam." Judying rom his own experience, he prefers calve of the sire predominated in the offspring,
he would naturally look tor as good calves from the poorest calves as from the best breeding for size as well as for milk, in
breding for the dairy, hay has also been recommended. From this statement also he differed. As a rule, medium sized cows
are most profitable for the dairy. A cow weighing 900 or 1000 pounds is considere of a good size for the dairy; light cow
eat less, are more hardy and thrifty, re quiring less care in both summer and win-
ter than large cows. He thinks the Short Horas are more suitable for the production of beef than for butter or cheese; for the
dairy he would prefer the Alderneys or dairy he
G. P. Wattles considers grade Short what is called Native Cows--an excellent dairy breed. Prefers a mediun-sized cow.
T. Hall said the average dairy yield of cows of 1200 pounds, so that it does not pay to breed for size in dairy cows. H dairy cow for beef, the value of the grain consumed in fattening such cattle ustaally will bring when sold to the butcher. He
sells his old cows, as soen as dried off, for ust what he can get for them, without
Dr. Femner gave his own expericnce as proving to be erroneons as opinion gener-
ally entertained, that a 100 pounds firkin of hutter, made from only one cow, is not
ins gool as a firkin made from a dairy of 20 or 30 ouws.
The question was asked, if two cows of sill eat two quarts of meal and twelve pounds of hay per day, and the other four
quarts of meal and fifteen pounds of hay quarts of meal and fifteen pounds of hay,
which will give the most milk ? Most of the dairymen said that their best cows fo condition.
fre best grasses for tile datry. E. C. Hart prefers white clover an with red color for meadiows. He gets hi hest yield of butter from timothy and pa
ture. White clover is good in the earl part of the season, but soon fails; cyorl after the seal ripens. Most of the dairy men agreed in the statement, that the bes from timothy grass or hay. Most of them sow more or less red (medium) chever, to feed their cows when they are dry. All and thought the indeginious grasses found
in old pastures good; these are principal in old pastures good; these are principally
red top, June trass, blue grass, white clover, and some timothy. Red clover grown for hay, and as a fertilizer, what io to rod top,) will run out old grasses in the spontaneousl
From the reports of such meetings as that given alrove, we see the great utility
of Farners' Clubs and associations. Every one can learn some-
thing useful from thic experience of thers We would like to hear frequently from In breeding stock, whether for dairy or
the good qualities of either sire or dan here both parents are good, we may ex pect good offspring. Defects or blemishes
in sire or dam is as sure to be transmitted the proginy, as points of excellence The introduction of a good sire into a eighborhood is conferring an inestimable enefit on its people, but it is only by
breeding from such a sire, and the very est daims to be procured, that the full exent of that henefit can be realized. The
ffspring of a good Short Horn Bull, from good cow though Short Horn Bull, from e need not say, of much higher value than the best iudigenious cattle, not having he blood of the Short IIorns or others a hie justly prized pure breeds.
Our experience is not ady
ening, even, of old dairy cows to the fat ound to pay from $£ 3$ to $£ 5$ sterlin! for heir feeding on flattering pasture for fou five months. If put into the stalls will recpuire so much valuable food to bring up their condition. We are always care-
ful to put in our stock for stall fecding n good condition, and they were sure to
pay a good profit. Sweet Potatocs.
Haring heard that this tuber had been Bug would not cat it wat the Potato hatti for some of the plants. We had previously written to another American seddman, but could not find a supply.
We have however procured and have them planted in different places. We do this to try if we can raise them here. They require a long, hot summer to
raise them to perfection. The plants we raise them to perfection. The plants we
procured are about ten inches
long and re in a healthy state.
We could not give our gencral readers the opportunity of procuriny them, as it
was too late before we found out where to ecure them. If they will succeed here e may not be under such a dread of the
Potato Bug. You will hear if they suc-

## Undeveloped Wealth

Thunder Bay, Lake Stperior, is now at
racting considerable attention. The im mense amount of silver being sent from parties left this vicinity last year in quest of fortunes; among the yumber was
Capt. Shore, of Westminster. He wa capt. Shore, of Westminster. He was
ettled on his farm when we arrived in ettled on his farm when we arrived in
this county thirty yefrs ago. On his farme we bound the first shedf of grain we ever
whe bound in Cauada, we have been persor-
ally acquainted with him ever since. ally acquainted with him ever since. He is an eluerly gentiman now, out with all han in the township. He is well known aroughout this portion of the country, senerosity he stands unsurpassed.
But the glitter of silver ore tempted ron to leave his fine estate under the conjrol of his family and try his ahilities and What induced hiin perhaps more than assaying practically his youth he learned hugget could be found. During the past cason, he determined to follow the proTession of his youth at Thunder Bay.arious minerals were brought to him,one he ground, examined the rock took from t specimens himself and found the ore rich in silver.
He formed
He land, and a company and purchased and and, and is now gone again to the
and of mineral wealth for the purpose of developing this mine and to continue his assaying.
We kno
ng their attention of our readers are turncountry and many companies are forming, Wht the lion's share of the mines are fallng. into the hands of the Americans. Capt.
shore is a genuine Briton, and is, if possi-
ble, determined to retam a portion of ou mineral lands in Canadian hands, But While temptations will be offered by cun ning men, we would strongly advise our
readers not to invest, however alluring readers not to invest, however alluring
the temptation may be, in Thunder Bay stock, without consultation with Capt Shore, as he is a a, practical assayist, and
from thirty years' personal knowled from thirty years personal knowledge of
him, we belive if there is one man in this county who has not been known to stoop to some low, mean act, that person is Cupt. Jno. Shore. We do not believe that at his
age, and being in comfortable circumatences, he would condescend to lead one satray willingly and knowingly
The Best cure for a cold in How
In conversion with Mr. S. Redmond, an has for a long time been known as a pkilful hand in the treatment of the various dis eases of stock, although not a profession-
al, he saild tho best cure for a cold in hor ses is to take lard and melt it ; as soon as melted and beginning to cool, add turpen-
tine and stir it until cold add a tine and stir it until cold; add as much
turpentine as will keep it in a thick, oilg turpentine as will keep it in a thick, oild
or pasty substance. Take the mixture rub it well in below the jaws around the neck, as far up as the ears of the horse.-
Place an old cloth or bag around the se's neck, and rub it well with a hot iron Mr. Redmond says he has never scen it fail giving relief, and nearly always it has effected a permanent cure. He says he diate cure, even in cases of epizootic The renedy appears to us to be des ing of space in this paper, and we feel in
clined to try it if we find a horse clined to try it if we find a horse having?
very bad cold.

## to cure saddle galls

Mr. Redmond also says he has tried yalls, cuts and other external injuries.He says Parrafine is the best substance ing of greater publicity. may be deserv ing of greater publicity.

## ralitryine park.

Mr. Redmond's mode of relieving pain Here it is :-Wet the external part of the seat of pain with coll water. 1 of the on common lamp oil. It will draw the pain to the exterior surface and hreak out
in little eruptions and depart. This may We may get some more of Mr. Red mond's recipes the next time he calls at our oftice. If any of you know better you would bo benefitting some poor suf-
ferer by sending them to us for publica-
tion.

The Potato Bug
This pest is making its rapid marchea reat difliculty and constant watching with care, that a crop of potatoes can be secured in this vicinity. There is nöt half the brealth of land planted here that there
was last year, and to the west of us they was last year, and to the west of us the
have almost abandoned the attempt to raise them.
A parasite destroys immense numbers
of the bugs and their larvae but the total destruction of the tota have taken place where they have once taken possession of a locality. Our east ern friends would do well to attempt the
destruction of the advance guard of the destruction of the advance guard of the
potato bug army, as they increase so rapidly, but we think nothing can be done to prevent the farmers in the most eastern
parts of Ontario from suffering from their parts of Onta
There are various washes and mixtures struction thout the country for their dejudge, the cheapest and best destroyer is the Paris grean ; the proportion of mix
ing should be 30 lbs. of plaster of to one of Paris green. 'This mixture, ap plied with a light dredge, will be found
sufficient to destroy the bugs on two acres.

If put on lightly, we presume we shall re quire to ap
We have heard of au implement invent ed in the States that is wheeled up and down the rows, and shakes the bugs into a small bor, from which they are take tisement of one of these machines offering every inducement and guaranteeing satis faction, or to return the money. W not yet seen it.
The process of hand pieking is out of
the question when they are in fall force the question when they are in full force
it might do with a few vines planted in garden, but for the few vines planted in a costen, but tor the main crop the value of the croup i they
them.

## State of the Crops

The fall wheat will not be an average crop j there are some good pieces to be
found in some parts of the country ; in some seotions the crops will be very light. Spring wheat must be in many place as
failure ; insects have destroyed the plant : the average yield must be low
The old meadows are very light; some
 hay crop we do not consider, from our ob Oats, barley and peas must be light, although there are some fair pieces. There nay be a medium crop, although they The corn that grew is looking well, but reat complaints are made that last year's seed did not grow well this year. From our 0
well.
There has been a great demand for Hungarian Grass and Millet, because farmers saw their hay crop must be light. The pastures have been good, but the grain
crops have not came in well ; the dry weather set in too soon to suid rear. complaints reach us of the destruction made by a green and brown grub in some being destroyed. Salt has been recommended as a remedy. but we hear of having been tried without good results. them forward in this locality.

## Produce of Dur Farms.

What the actunl expenses of cultivating
farm really are is a question desserving our serious consideration, and yet it is one t
which we give little thought. So much o what is consumed by the workingstaff of the farm-men and horses-is the product of the count. The provender for one horse is in it self no inconsiderable item. It has been
computed by an American agricultual writer computed by an American agricultual writer
that it requires from fourteen tosixteen acres
of land of average quality, and receiving average tillagere, to produoe hay and oats for we wore at first surprised at the result of his calculation, as it differod so very much from our own experience in this matter. But
hear our authority for himbelf. He says:yoar 6 bir tons of hay and 270 bushels of oats their daily ration being 18 pounds of hay and
12 pounds of oats for each. It will take 14 to 16 aerces of average land to raise this
amount of fodder." For horses, stalle fed and working during the year, this allowance
of fodder is not too great. But we ask farn ers, la not one-fifth or one-sixth of the arra ble land of a farm too lanee a portion to be
given to produce the fodder for the horses
that work it. Whe have no doubt much heavier crops, both of hay and oats can be raised
tive shortiness of the growing season, with the great heat of the summer, grain crops and grass are lighter in every country in America
then in the Rritish Isles. We are certain we owuld here, with better tillage, produce creps,
if not ne heary as theirs, still not so much lightor as they are at present. We know the
modes of farming, and the gencral produce oa
 from other sources, we may estimate the area
required to produce the $6 \frac{1}{2}$ tons as not less than four acres-a total of nearly 13 acres to
produce the hay and oats for a pair of horses, produce the hay and oats for a pair of horses,
when stable-fed, throughout the year. Farm
horses generally are not so fed for the twelve months; but the calculation is not the less accurate, as showing how much land it costs
to feed a pair of horses; and it ought to urge
us so to enrich and thoroughly cultivate our us so to enrich and thoroughly cultivate orur
farms as to produce a quantity of food from farms as to produce a quantity of food from
five acres equal to the present produce of
twelve. twelve. To accomplish thisen gaining a great-
er depth of soil by deep ploughing is the means. Other means, such as a judicious ro-
tation of crops, and soiling our cattle in stead of having them to roam over pastures,
will be found valuable aids. We will return will be found valuable aids. We will return
to this important subject in a future number.

The Agricultural Investment So ciety.
The office of this institution is next
door to our establishment. We are door to our establishment. We are percan say to our readers who directors, and borrow or loan money, that we do not to invest in, a safer institution in Canada borrow money on better terms.
afer in this Society than in bank much because no money is loaned except on real estate. Those wishing to borrow will find hey can procure it at much better terms establishments where money is loaned.We do not doubt but that the stock of this company will soon be as much above par as that of
Roe, will at all times be pleased to firn A information on applying to him personally r by letter.
to prevent rust.
Manufacturers of farm tools usually apply
varnish to prevent rusting, but the cost an arnigh to preven ring it makes it unsuitable fo
difticulty of remo home tse. Whitelead is effectual in keeping
off rust, but with this the same difficulty of re-
moving is met. moving is met. The best thing we have tried-
and where the recipe etas first given has es-
caped us-is whiting thinned with kerosene to caped us-is whiting thinned with kerosene
the onsistency of anint, and aplied with
mall brush or cloth. This readily small brush or cloth. This readilv rubs off,
but will prevent rust for months We keep it
ready mixed, and when hoes spades or plows
 are laid aside-if only for ar Tow Lays-a coat
of this preparation is iven. Thondon Lan-
cet say the medical officers of the British navy preserve their surgical instruments from rust by
a mixture of carbolic acid and olive oil, in equal parts, smeared over them.
The butter inspection system is becoming eneral in the County of Wellington. The inspector.
The Win
Thy. The local papers there speak of things


ARDEN AND FARM
operations For the montit.
In the flower garden, finish the annuals. They will need shad
The the ing and watering for a few days, till fairl
established in the ground. July is a month estabished in the ground. heat, so all plants
of long days and grat
lately transplanted need attention and care. Trees and shrubs newys. Keep the hoe an rake stirring among the drilled crops. The
frequent stirring of the soil is not only the most effectual method of keeping
weeds, but also of fertilizing it.
The fres stirred earth inhales the ammonia from the
atmosphere. Keep a sharp look out for the intmosphere. ineep a sharp loor ouspecies of
insett that infest almot every sum
plant. It has been said that lime dusted o currant bushes will drive off the curran
worm, but we have always found the most effectual remedy. Do not forget the training of ivy, Virginia creepers, wood
bine, \&c. ; nail up their leading growths and bine, \&. ; ; nail up their leading growt his an
trim where necessary. Stake and tie al In the need support. garden, keep the soil freshenenel and the weed extirpated by the frequent use of the hoe.
No weeds can withstand the repeated assault of the hoe and spade. In two seasons we we
entirely freed our garden from some Canada
ethit thistles that had established themselves in crops are removed, prepare the ground wher
chey grew for succeeding crops be no waste places.
The orchard will
your care of it this repay you abundantly for the better for having the soil enjoy thil thrive fits of a summer fallow by turning up fre-
quently. This is especially the case with young orchards. If your trees be overladen
with fruit, thin them sufficiently. The fruit you let remain till maturity will be better and more valuable, and you may save your
trees from having their branches broken by being overladen. Grape vines may in thy
month be propagated by layers, and the young vines be well rooted before winter. Bees and beekepers rejoice in the bounty
of July. This month, above all others, the
bees lay in their store for the winter. Buck wheat is a valuable addition to the scene o heir labors. Bees require redoubled atten-
tion now, in this their honey harvest and time of swarming
In the farm the
tention. In the turnip field let any blank places be filled up by stirring the soil and have had turnips transplanted and be a heavy crop; but we would alvise sowing again in
preference. If too late to sow Swedes, sow Aberdeens or clobes, or still later, Whit less time than the Swedes to grow to matur
ty ; they may be sown so much later. greater supply of fodder for the winter stoc
will, in all probability, be ueeded than meadows will supply. It is not yet too lat to sow corn for fodder. You may sow it up
to the tenth of the month, and if the soil be moderately fertile, you may thereby make
large addition to winter provender for you stock. ithe value of Hungarian Grass and Mille yield large crops of hay, very nutritious when cut in proper season. Every due precaution
should be used to provide for the farm stock in winter. The experience of last winter
was a lesson that farmers cannot soon disre gard. Let pleuty of provender be secure the early spring. And if you even have some
laid over it wili not be waste. Remembe the old
gold."
Colorado stock men are purchasing blooded
stock in Platte County, Kan. $A$ la of impure air upon butter, that there is a a filthy stagnant pond of wator a few hundred feet
from their house from which an offessive efflu-
vium wiuld be borne on the vim worluld be borne on the breeze directly
thilk room, when the wind was in a certai
directi* direction, the result of whioh was that the
cream and butter would taste like the disagree
able odor coming from that pond. As soon a the pond was drained
butter. -Honesterd,

Agricultural ? tems
 The immonity from gnow of Southern Color-
 witer


 ${ }^{2}$







 | $\substack{\text { and } \\ \text { ond me } \\ \text { han } \\ \text { hat ver }}$ |
| :--- |


 The Theq iunitity of grair ubed in all the Peoria,


 he pine. Homenetcad.
A barel of four wight 19g pound







 lice fom this on prove favoraba, the wheat rorpot hhe
fatory one.
Thbe eoronmy of rapid and donf ortalde tran.






 Improvenent by telection ine arying thase








## Itterns


$\left|\begin{array}{l}\text { which the clover seed is sown being all that } \\ \text { is reeded. } \\ \text { The sed costs little ; and all the manure }\end{array}\right|$ The seed costs little ; and all the manure
needed is plaster, to grow clover two seasons.
If the land is in good condition, the second If the land is in good condition, the second
season an early crop of clover hay may be
taken off, and a second growth plowed under taken off, and a second growth plowed under
for wheat. If it is thought the land needs
more fertilizing, and more time to work and
. more fertilizing, and more time to work and
subdue it, then the first crop should be plowed under. But as a rule, from the lar-
ger amount of clover roots that will be grown, and of leaves which will fall and de-
cay on the surface, there will be a larger cay on the surface, there will be a larger
amount of fertilizing matter, in proportion to
the top, plowed under the second year then the top, plowed under the second year than
the first. Hence, a very important point that should
be always kept in mind, is that clover may answer an excellent purpose to plower under
after it has been mate a profitable crop to harvest and take off; and all this from one
seeding, which is so easily and cheply seeding, which is so easily and cheaply se-
cured, as alove described. How may far-
mers work hard, and are at considerable exmers work hard, and are at considerable ex-
pense to raise a crop of grain, when at the pense to raise a crop of grain, when at the
same time a crop of clover might be grown
which would be worth more money, and literally cost nothing, except the seed, to put
it in. In fact, the hay and seed first year will be very nearly, if not quite,
clear gain, as the crop the second year, to gather and to plow under, will be worth en-
ough to the farm to pay all expenses. ough to the farm to P
Country Gentleman.

> manures on sandy solls

Do manures on light sandy loam lands
leach down below the roots of plants and become lost and wasted in the lower strata of
such soils : Or is this tenden in site direction, and in dry, hot weather do
they become absorbed and they become absorbed and lost in the air?-
I think neither of the above propositions
point out the true tendency of manures applied to such kinds of land.
where they are placed, and their in only soil
dency is towards the dency is towards the roots of the plants,
thereby constituting the food or ailment thereby constituting the food or ailment up-
on which these plants feed. I believe that
by a regulation of nature there by a regulation of nature there exists an
atfinity between plant food in the soil and
thin the roots of the plants themselves, whereby
they are constantly drawn towards each $\begin{aligned} & \text { they } \\ & \text { other. } \\ & \text { I, }, \text { an }\end{aligned}$
broken
I, cannot see how this arrangement can be
broken up by the action of the rains on the one hand, or by the influence of heat and
dry weather on the other. For if duing dry weather on the other. For if during
rains the manure these lands contained were subject to leach down like water running
through a sieve, they would soon pass beyond through a sieve, they would soon pass beyond
the reach of the roots of every kind of plant.
Or on the other hand in if their tendency were upwarls, wike ther,
steam from a boiling pot, their strength mingling with it, would be scattered to the winds. And these lands, being constantly
subject to the wasting power and influence subject to the wasting power and influunce
of these elements, must a long time ago, if
they ever possessed any fertility, have be. come very poor, desolate and barren indeed,
far beyond the hope of recuperation. But, on the contrary, there are thousands of acres,
of this kind of land at present covered with a heany growth of wood and timber, thou-
sands more in pasture and mowing fields,
and under cultivation and annually bearing very satisfactory crops;
and still other acres of this kind of land and still other acres of this kind of land
that by skilful and persistent cultivation
have become some of the richest and most prouctive lands in the world.
My idea is that the rains, the heat and dry
weather, as they ordiuarily occur one seaso with another, do not come to these lands as
enemies, but as frise enemies, but as friends, to help nature to
elahorate the plant food of the soil and to
carry out her kiudl indluence in the carry out her kindly influence in the increase
and production of growing plants. And and production of growing plants. And
thongh sometimes her operations may seem
to be suspended, as during the severe drouth that purevailed for two years previous to last spring, yet we saw, after the rains came, that
the lands which during that time looked so poor and barren, insteat of parting with any
of their plant food during those Iry years,
had actually been laying had actually been laying in an additional new
and fresh supply of fertility
from the sis evident mantle of green that clothed the the rarth the
mast year.--R.S. in Country Gent The Kansas Pacific Railroad transports trees
and shrubbery free.
the potato crop and the colorado From the report of the Entomological So
ciety of Ontario we gather the following in-
formation respecting the progress of the Col-
orado Beetle during the past yer
During the past year we looked forwar
with considerabpe anxiety to the effect that
the Colorado Beetle would produce on the the Colorado Beetle would produce on the
potato crop; we are glad to be able to report
that potato crop; we are glad to be able to report
that on the whole, less mischief has been
done than we anticipated. It is somewhat done than we anticipated. It is somewhat
difficult, howerer, to arrive at an accurate

## The

The Bureau of Agriculture forwards every
year to the Secretaries of the Electoral Di vision Agricultural Societies a printed circular requesting a detailed return of the crops
in each district; and if these returns were properly made they would afford mnch valu they are not more universally attended tha So far as we can learn only 4o of these re-
turns have been made for 1872, and it is on turns have beon made for 1872, and it is on
these partial details that we must base our
analysis for the Potato Crop , While how ever, the ravages of the beetle have been
somewhat less than we expect, somewhat less than we expected, its increase
in numbers and on ward progress have been such as to cause not only a material effect on the crop, but also to maintain a good
deal of alarm amongst the farming comdeal of
munity.
A comparison of the crop returns for the
two past years fully confirms the statement made in our former reports, that the second and third years of appea
are worse than the first.
A few statistics may not be out of place
here. In 1871,45 Agricultural Societios sent hreturns showing an average crop of 131
bushels per acre. In the past year, 1872, only 40 societies reported, with an average
of 181 bushels per acre, In 1871 only 14
Societies reported the while 33 were free from it, and none badly affected. In 1872, 26 Societies reported in-
jury from the beetle jury from the beetle, and 8 report very seri-
ous danger, in some cases almost total de struction, and only 14 appeared to be free.It is to be noticed that all the western places
which in 1871 were the most were in 1872 fare more seriously attacked. In
no one place do we find that the beetle after making its appearance one year, has not re
appeared in the following season. In London the beetles literally swarmed, and thounands
were daily trodden down on the sidewalks were daily trodden down on the sidewalks
and streets, and we look for a atill further
increase next It would be very desirable to obtain sta tistics of the various sorts of potatoos grown se we are quite satistied from our own ex
perience that some varieties are much more subject to attack than others, and wee would
beg respectully to suguest to the Commi beg respectfuly to suggest to the Commis-
sioner of Agriculture the propriety of obtaining such information during the prosent
From the monthly reports of the agricul-
tural department published at Wo tural department published at Washington,
we obtain some information respecting the ravages of the Coloraalo Potato Beetle in the
Unitel States. pondents show that the crop of 1872 was
less than that of 1871 by alout of hushels. This, however, comprehends sweet potatoes as well. The Western States,
in which the potato crop had suffered for several years 1hast from the ravages of the
Colorado Beetle, reported diminishing losses from that canse, and were the only states,
North Carolina and Texas excepted, report-
ing increased rioduction. In Ohio, Michiing increasel production. In Ohio, Michi-
gan, Indiana,
Iowa, Nebraska, Minoi, Wiscouni, Kani, Minnesta, nia, and Oregon, the average y yeld was only
98 bushels to the acre, while the averag price of
pushel.
We give these statistics as it is from the
Western states that the Colorado Beetlo ha worked in its way, and they show to some
extent what effect has been produced by it ravages for some years past.
The only sure renedy for the pest, besides
hand-picking, which answers very well at twenty pounds of flour, or thirty to forty twenty pounds of tour, or thirty to forty of
plaster of Paris ; the latter mixture is highly
recommended by our friend Mr. Saunders, of
ject.
When the insect is likely to be abundant,
our farmers should not attempt to grow a

phanttico ockis eroomb

 and if on givgoopotentivation, plating noi
 land iniow in the sring or fath owo

 quak- - Yhioh muat have hurt ame- there

 Not






 the titith
But late ploughing is somotimese attended



 hanco wwask out the gubstaneo and datur-







 | reanily |
| :---: |
| ciand |
| land |
| Other |
| $\substack{\text { ther }}$ |






 Inenty Huth in oriere tovo gurard d hamem from the planting time, pat well jut the ground, may
 Moughing, when the tand jot moibt Thioatot the oorm hand here in trateded in goneral forot, With good yarar mad iniol and thero can lon hon failurifit tho crop ite
 Mald so, an conn will hars it No foor of


 oxcellent todder, but no earrs, nono ot tall il





why there is no reamedy for the potato In reply to Magazine, that our ignorance of $a$, satisfae
tory remedy for the potato disease is a stigma upon modern science, an ominen
naturalist retorts that the investigations naturalist rotorts that the investigations ne
cessary to determine the desired remedy re-
quire large expenditures of tithe and money cessary to determine the desired remedy re-
quire large expenditures of tirte and money,
and that, if those who are practically inter and that, in the subecect oure Gravernuments, of
the farmers do not think it sufticiently worth their attention to induce thiom to en
ploy scientifie men for the special object ploy scientife neen for the special ond
workingout this problem, the omission to
so cannot le imputel to the latter. so cannot be imputerl to the latter. Very
little, indeed, so far as we krow can be don infection spreals so rapidly that the first in timation of its presence mayy be the destruc tion of the crop in an entire field.
It is said that potatoes escape with little or no disease in the neighborpood of chemi
cal works, which is due possibly to the effec cal works, which is due. possibly to the effect
of the sulpharous acid or other gases that ar
noxious to the fungus growth, without injuring the more highly organized potato plant The apphication of tinely divided sulphur
beneffical here es in other plant diseases. It
is stated that, if as soon as the disease ba attacked the ficlds, the stems be all cut dow close to the ground, the infection will no
extend to the tubers ; and when the crop nearly ripe this may be a judicious appplica
tion, but it necessarily has the effect to sto any further growth. Even in this case, how
ever, the potatocs may be serviceable for seed for the coming year.
After reviewing all that has been said on the subject, Mr. Thistleton Dyer comes to
the conclusion that the only way in which there is any reasomable hope of relief fron kinds.
August, in England at least, is the mouth
when the diseaso is worst, especially if the can be secured lefore this period, the evil will be aivoided. The production, of early ment, is possille on skill and patience.

> Cors is hilis and drhas.

1868 two plots of hand were sct appart, sul stantially equal in character of soil, each
measuring forty-eight rods in width, ground was ploughed May 5th, wind manure
was spread evenly and worked in liy culti in rows four feet apart, phanter May 21 s in rows four feet apart; one of the pluts
beng plantel in hills, the other iil drills.
The The plots were cultivated and howl Junc
15th, and again July 7 th ; the plants being stalks on each plot, including an1 equal dis tribation of plants throughout the subdi-
vision of the plots. As nearly ns possith
each of the two plota each of the two plots received the same am.
ount of labor in cultivation. The stalk Were ent at the louttom Septenber 17th, and wards the corrn was husked and weiphect.
The stalks then again carefully stookecl, an were hanled and weished, in ondition October
The corn on the portion phanted in hills
was better in quality than on that planted in Was better in quality than on that planted
drills. But the drilled portion produced 7 .
1-6 bushels of shelled corn the then stalks to the acre, against 65 thee bushols of shellod corn and 2 g tons of stalks per acre
produced by the portion in hills, $\underset{\text { World. }}{ }$
onstrye -
It is related of an English farmer that he rule:" Feed your land before it is hungry, rest
it before it is weary, and weal it hefore it is
foul." foul. of every man who desires to farm, and may go far to answer, in his mind, the पhestionsu
frequently and" so aniously arked, "Doos: farming pay?" The rule demands the exers
cise of the qualities needful for success in or cise of the qualities needful for success in av.
ery occupation- mutiring watchfulness and
prulent care, linowledre forcthought gy aul cconomy, regularity, attention to little things, persunal supervision and observa-
tion-this latter a power requiring education
and constant exercise. It may not be altogether amiss to say that this power of obser
vation, although naned last, is perhaps th
noost important to most important to a farmer. In this won-
drous world, this panorama, as it has been
called, of thought aud action of forces curdrous world, this panorama, as it has been
called, of thought and action, of forces, cur-
rents, growth, deceay, special heatios are
prosented to the ayriculturist, but, alas !presented to the agriculturist, but, ala
whice many see, few obsere.
Millons sce only and never acquire the
habit of detecting gool in what they sec, habit of detecting gool in what they sec,
as to use it, or of evil so as to shum it.
It is this power of olscrvation t. xercised, which in agricoltture has done so nuch; it hass reclaimed exhasusten lands a, hinery, and raised the value of stock.
To this may be traced the development gricuitural chemistry. The phenometna
vegetation and the chemical constitution of substancos had previously leen observed.
To young men about to enter on thic nobl To young men about to enter on the now
profession of agricnlture, the foregoing is of
anlec. Too many enter on its pursit with Value. too many enter on its pursuit with
the itea that it is easily attainct, that suc-
cess is au affair very nuch of chance, of weacess is an affair very mucll of chance, of wea
ther, of chap or dear land, or of narket
ralue of protucts. While, doubtless, there is an element of truth in such thonghts, it
ought to be ever borne in mind that no occupation requires more constant exercise of
nind and body ; that the better edncated the armer is, the more he maintains and in acquainted with natural and physical science,
the more his reasoning faculties will be Hised, and his ablity to observe increase.
His olservations should be recorded studicd. There is yreat practical ntility in
the well known saying of Captain Cutte,
 or reason of the matters observel, the, farmers win be in a better position not only
fullow the simple rule alrealy given, but
taking avail of any of the adventitious cir cumstances nameel, he will elevate lis nobld
crop
The
The
The New York Proluce Exchauge Reporter
ays ${ }^{\text {". aulvices from the wintor wheat }}$ growhost sections the plant is for their orop; in though very backward. It is gencrally well
set, and the season on the whole has not lreen nfavorable for its growth. From the North
Vest the crop is represented as wast the crop is represented as very back
warl, and the plant looks far from healthy mit everything now deperuld upon the wea-
ther, and it would be useless to express any Reports from Cchifuruia, it is saidl, fully
onfirm those previously recerived; "it is very evident that, with the same acceage,
the yicll will he less than fifty per cent. of
last year's crop ; but if we adid the increase Iast year's crops ; but if we ady the increase
in area under coltivation, it will be safe t
ssume that their surplos will be alout

 states. The crop as a whole is sputtel, and
nut making a good growth, and the prospect fint so goul as it, wns early in the spring.
 instead of requiring warm shelter and the hest of prepared fool. Such of our reader
ns live in this leet of percmial green can
read this article aud symupathize with their less favored brethren.
The first point to deternine is when grass an soluhle and digestihle condition. There is contain the most atsolute nutriment it the fecting the sed the stalk yields up its solu in to be nearly indigestible to the animal.
It has also been determinel by chemical an nyysis that tht the one of hossming the
yrasses contain alt the nutriment required to more fron thee suil and thet ly keeching the
roots monst, and withont any earth, the see oonts monst, and withont any earth, the see
wisl perfect titecf. Wolft, the Cicrinan chen!
ist ly carcful analysis, fomud clover just in
Ho

formed, forty-eight per cent., showing the
great rapidity of change in the stalk, from
soluble to insoluble matter soluble to insoluble matter. From these
solid facts it appears that grass at the first
blossoming contains all the nutriment that blossoming contains all the nutriment that
the stalks and seed both contain after ripenHes. And it follows, that if the farmer will
ing. has grass when its untitive natter is
cot
most digestible, his animals will thrive nost digestible, his animals will thrive as
well upon it as upon ripe hay with a liberal
dlowance of grain. From aw allowance of grain. From a number of ex.
perinants upon Indian corn, we fouml that
if it were cut when the kermal hal first talen periments upon Indian corn, we fooml that
f it were cat when the kernal haw first taken
form, and set with the loutts in damp earth, he ear would ripen from the nutriment con-
aineri in the stalk, the kernels being plumn tained in the stalk, the kernels being plump.
It this cortain that the e stalks containci
all the nutriment afterwards forming the all the nutriment afterwards forming the
grain. And corn asw for fodder, if cut tat
the time of full titsseling, will contain all the nutriment of ripencit corn, and in a soluble
and digestible combition. If stock farners easily raised, would always cut grass in blossom, their animals might be kept in fine con-
dition upon it alone. We heve known liberal quantities of milk to he wiven quon clover
and timothy hay alone, but in all casse early June grass, which is considerel almost
worthless for hay, is excellent for pasture worthess for hay, is excellent for pasture,
and would he for hay if cut when in blossom,
If farmers would study all the different masmeses sow wouly sthose that ripenen thit the same
mime in the same field, and cut them at the roper stage of maturity, they would lee able and all of the best quality.
nembered that after lolos. membered that after hlossoming, every day
lecerases the amount of digestible nutriment Prompt attention to this matter meany stocl in good condition next spring, hat delay
means poor chws, poor colts. porir calves and
poor profits... The
nnd as
France
as was
 twenty-eight competitore surmy purposes, teres the list. There are also exhibit, d fourten
Corsican ponies, the mont diminutive of their
cease ever een. The animals on a who le are
light, ard not specially remarks

 pasture lands of thase parts of France that the

 astonished to learn that the French themselv
do no consider that race to be the finest in t
world, and are still
 cheron lacks unifornity and hemogenity.
Enolish blood would remedy these defects,
and pro ihce a type moree powerful and less
heavy, more active and enduring, while retain-

 uniriug only the introduction of A ral or Euglish
blood to give it a cleaner look and a lifitter
novement. nuvement.
Gerinnany
 culturators are not falling anleep respecting
nmeinorations in this hranch of industry. they
have hat shows and trial have har shows and triats of the varions imple-
ments connected with the culture and lifting of
heetss they now wish of solve the connliex
question if the action of manures on that
 Each competitior is tn furnish a quantity of his
repeparation sufficient fur haif a roud, as well



ifit hours, and their siccharino richness Wrth of France statts, that to have roots rich
n sugar, the soil
liould have the manure well sugar, the soil should have the manure well
plowed in during the winter, and only lightly
ii ed during frivg, to be sparing in the use of ertilizing ayents, and never apply liquid or
nulvurulent matures th the growing orop. Mis.
ured nnt monst. $r$ ronts, is the bured. not mo
kept in view.
Frencl
French ayricul urists decline to purehase
ruann in its natural state, and insist on its ust being treated by sulphuric acid, which
nemeres the solutility of the insoluble phos whori a d, and consequently the immectiate action of A piar of farm horses will consume
year 6 tons of hay and 270 nushels of
their daily ration heing is 12 pounts of oats each. It will take 14 to 16 acres of average land to raise this amount
of fodder. A cow will consume 15 pounds of hay anl 6 pounds of corn meal daily, equal to 3 l tons of hay and 40 hashels of corn, allow-
ing for toll for srindiny it per year. This ing for toll for grinding it, per year. This
will require alonat 4 acres of averago land.
One One are of good corn land will produce
enough yrain and stalks tokeep a cow during
a year. This estimate, which is deduced y year. This estinate, which is deducce
from practice, accoris elsewhere, as gathered
from statistics, which piove that eight acres of land are needed to support a horso during a which, as regards the supply of food, are selfsustanining regards the supply of food, are self-
sold be no practical
iffierence between the crops moter difierence between the crops mentioned and
others that might be chosen, for the reason othat more proific crops require a queater
thanount to be consumed to yeld an equal sustenance, with less prolific, but morq nu-
tritious crops. The must crop to raise for feeding animals is corn, when the whole stalks are well cured and properly
used. $-N . Y$. Tribune.
 knows that the peak will grow in very cool wew-
ther, and the seed sprout at a very low temper-


 was done, I learncd hat the seed was suwnlast
fall, nnd remained in the groma uninurd
luring the winter. I have sown tomatoces, let-


$\qquad$ A correspondent of the Vermont Formor ives



 fabange in $\overline{\text { rew havishire. }}$ The Mirmor and Farmer says: Farmurs are
still determined to ell oit in the back towns of
oir State; they have lost all hove of wettir:


 ont to nature and to wo dr the hardest and
rounhent portions, sominething of advantage does
not follow. The Gcrmentuin Thesraz has the followTi reply to inguriries about the Alsike clover
we would say that io onght to be tried in is
 productive. The sed is fur sale at all our
tirst clase seel stores. We think that it will
be generally introduced after a trial.









## can


$\qquad$

$$
\begin{gathered}
\text { cor } \\
\text { for } \\
\text { hay } \\
\text { int }
\end{gathered}
$$

$$
\left\lvert\, \begin{aligned}
& \text { hay } \\
& \text { int } \\
& \text { ed }
\end{aligned}\right.
$$

$$
\begin{array}{|l|}
\text { ed bod bod } \\
\text { foow } \\
\text { co }
\end{array}
$$ prow

yell
yitt

$$
\begin{aligned}
& \text { allow } \\
& \text { per } \\
& \text { pat }
\end{aligned}
$$

$$
\begin{aligned}
& \text { not in as good condition at the oloseof feeding } \\
& \text { This satisfied him that out-dor feeding would } \\
& \text { Tot do.- Froon the Illustrated Journal of Agri- } \\
& \text { culture. }
\end{aligned}
$$

## 





 dowments have been bestowed on these bu-
colic seminaries in every State of the Union,
immense tracts of public lands have been colic seminaries in every State of the Union,
immense tracts of public lands have been
taken from the actual settler to build them
up, and yet we do not believe they taken from the actual settler to build them
up, and yet we do not believe they are turn-
ing out enough practical farmers annually to yg out enough practical farmers annually to
yoke np a pair of two- year old steers. What
do young men do when they go to Cornell do young men do when they go to Cornell
They study Latin, in order to learn the na-
ture of crops; astronomy, to find out about ture of crops; astronony, to find out about.
the charaterof various siils, and rhetoric in
order to understand the breeds of bult judge so, at least, from what we have heard juitge so, at least, from what we have heard
and from the anual circulars which the
managors send out.- Prairie Farmer.
horina potatobe. The Ohio Farmer says :-"One of the
secrets of success in potato growing is in
giving thema h hoing at the proper stage of
growth. One hilling is sufticient, and this growth One hilling is sufticient, and this
should be given when the vines ane about six
inches high. Previous to this, use the cultirator freely; keep the earth loose on the sursace and froe from weed. When at the
ing, makiving the mentioned, wive a good hill
inoad and tlat on top and a little cupping. After this do no more
than to cut out weds. The hceing is best done to cut out weeder. She heeing is best
doulture and others two hillings; advocate flat
cut we have never succeeded with either of those plans,
nor do the most successful potato-growers
divocate them. Two hillings will make tre advocate them. Two hillings will make two
settings, and result in a large number o may do on a deep loamy soil, where the root cau ramify and form tubers readilys but
clay soil hilling in the old-fashioned way i
the one most certain to make good returns.
shavisg the meadows.
A correspondent of the Country Gentleman
discusses the question why the hay crop is growing lightor from year to year. Among
dther things he says :-Another reason has ben whispered, which is this: That on ac-
count of the great competition among the count of the great competition among the
different mowing machine manufacturers, as
to to which machine will shave-yes literally
shuve the surface of our meadows the
closest, the roota of the grass is really and closest, the roots of the grass is really and
permanently injured in leaving them bare, permanently injured in leaving them bare,
and thus very liable to be frozen out alsool.
ntely. We believe a goorl deal of clover is killed out in this way, the crowns being
sliced off to the very roots. Cloose mowing
 menvicutark hrown halir lok which makes alt the
morld like monkeys, deprives the head, to all intents nad purposes, of its natural protec-
iton. So, "shaving" the meatlows deprives
them of their natural mulching, which is them of their natural mulching, which is
sach a ripotection atginst the dronghts of
summer and the rigors of winter. James wotato experiment.
James Wells, of Chicopee, Mass., plowed
deelnand harrowed a piece of gre
signed for a marden



 sure 4, 230 square feet, or a fraction less than
one-tenth of an acre, and therefore the crup was
at the rate of over 500 bushe's to the acre. MULCHING. A correspondent of the Cincin-
natti Guette sams:- For the last ten years in
setting my trees I have nsed posed of about equal parts of rotten wood,
leached ahhes and light barn-yard manure.,
Pursuing this plan I have succeeded beyond my most sanguine expectations.
misceeded beyond
this true in regard to light goils.


## ©be worst.

## the horse in the stable

The following sensible remarks are mad
by a correspondent of the Western Rumal: In selecting a site for the horse-barn, a drain the stable, purify the atmosphere round it, and preserve the health of its in
mates. The stable should front the south $t$ mates. The stable should front the south to
shelter stock from the prevailing cold winds
and give them the benefit of the warmelt and give them the beneen of the warmith
the sun. lt requires to be thoroughly
drained drained and well ventilated. Damp, filthy
stables, full of vegetable matter and foul air are the prominent causes of such fatal disor ders as bring fevers, influenza, farcy and
glanders, that destroy annually so many glanders, that destroy annually so many
valuabe horses. Fresh air is indispensable
to supply the to supply the place of that which has been
onco breathed, and take away the fumes of ammonia, always found in close stables, de
priving priving the atmosphere of its life-sustaining
elements till it is not fit to breathe. Next to ventilation, light is ossential to the healt of horses.
Blindness
atrindness, as well as other diseases, has boen
Ttibuted to dark, ill-ventilated stables. The domesticated horse is more predis-
posed to become blind than any other animal The canse must result from over exertion o
mismanagement in the stable. The wild mismanagenom in the stable. The wild
horse is seldom found blind. This shows
that close that close stables have ${ }^{\text {a }}$. potent effect in
spreading the infirmity. that dampness in brick walls may be obviated and extending the roof over the two or three feet. gable end
The pro
jection makes the barn jection makes the barn cooler in summer and
warmer in winter, whether it diminishes the causes of disease or not. Apertures for ven
tilation, always left open, will renovate the and the re-supply of the pure element.
Air, when deprived of its oxygen by
breathing, becomes unfit for respiration, and
the influence of pure air upon the health the infuence of pure air upon the health o
horses may be demonstrated from the fact
that horses running at large escape the that horses running at large escape those dis-
eases that afflict others compelled to breathe
the confined air of close stables. tion arising from poisonous gases may be
more conclusively proved by
the fact that more conclusively proved by the ract na
horses kept in perfectly ventilited stablos are
not subjeect to one-tenth of the maladies that infest filthy, undrained, ill-ventilated ones.
The feet and legs of the horse are the most difficult for the groom to keep in condition.Some horses ges cold legs, and require hand
rubbing to restore the circulation ; othera become feverish in the feet and legs and retion. Washing the legs in cold weather cannot safely be permitted, oxcept they are
thereater rubbed dry. Cracked heels and
swelled legs are the consequence swelled legs are the consequence of suffering
the limbs to dry ly the slow process of eva
The grasses are the natural and most essen tial food of the horse. Turning out to grass
will prove a sovereign remedy for inflamma.
tory diseases. It also relieves, and some times entirely removes, chronic disorders.-
Hard, upland mealow hay is preferable lowland grass for trotting and running hot ses, eight pounls a day being about the usual
allowance to fast workers. slow working horse should have all that hay he will eat. Old oats are sweeter, more nu
tritious and easier digested than new oats.They are the most prositallele whew one year
old. The roalster rin active service will cor sume daily from 12 to 16 quarts of oats. Th
draught horse will work on from 10 to 14 quarts per day.
Regular hours
as a liberal allowance of tood. The fast horse
must be fel often and in small feeds cannot go fast on a full stomach. The diver boxer, wrestler or runner must regulate hi
diet to correspond with the required of his physical powers. Trotter
get little runners are muzzled to on trotting days drinking until after their race is over, for al
work work that materially forces the breathing
should be performed on an empty stomach young horses ought to be worked moderate
1y, so as to gradually harden the flesh, ea
large the tendons large the tendons, and develope a sound con-
stitution before they are matured tends to weaken the
joints Joints, relax the cords, and puff up the legs,
from which they may never recover ; and the
soft, half-seasoned horse will soft, half-seasoned horse will take mo
than thewe in good working oondition.

FARMER'S ADVOCATE.

When the work is such as to fall more se
verely on the legst than the body, they must
be hand-rubbed, and the food must be so regulated as not to increase the inflammation "Take care of the lags and the body wil
take care of itself." Muscular exertion pro-
duces important changes. The motive powe take care or itself. Muscular exertion pro-
ducees important changes. The motive power
exists in different degrees, according to the exists in different degrees, according to the
state of the system. In one stante it has a slow and feeble action, in another it has a strong and powerful action. The muscles are the active instruments of motion. They
are put in force by the power of the will.
Condition implies that state of the muscula system that confers the most strength, spee ertion, that clears the wind, yuickens the ac tion of the vital forces, produces perspiration,
which purifies the blood, and invigorates the body.

$$
\begin{aligned}
& \text { The Formentrinsinin syons }
\end{aligned}
$$






 vaid give it it the themporntio or new mill

advacte in hooses.










driving colts.

If the cult is at all uncortain, it will be
policy to work slowly and carefully, as one polisy
misho now may cause serious mischief, by
the colt becomint ahbe, and, , hhould he he buble to resist restraind
will easily cause a loss, by damade to wag gon, of from five to fifty dollars. To guaril ajainst this, get three slender poles, two in
them about twelve feot long each, the thir albout seven feet in length. LLay down the
poles in the form of shafts, the front end about twenty inches apart, the back alout six feet ipar.
aloont six feet six inches from the forwar ends, and tied on with pieces of cord. Hitch the colt into these poles, attaching tugs the the cross pieces hy tying with small cord, an
drive the colt arounll until there is perfect submission to them.
reasons ; they cause less noise ment, and consequently are less likely t
cause resistance ; and should the horse kick no danger can result-whereas one kie against a buggy would be likely to canse
serious danase and hoss, Before attempting
to drive a colt to the wasuoul or clats , ill danger of ressisting waything or strafts, all course of sulpjection. It is always the safest and best methon. Anything like a suitable lout by few, and the ease of conistructin
poles into the form of shafts will lena be any one to casily supply the want.--P'of!. Mnt
ner.

## able praivage.

Notwithstanding all that has been written ture, there are a very few stables in the comu-
try where a really efficient provision is made try where a really efticient provision is mad
for removing and utilizing the liquid manure that is furnished by horses and cattle, who
$\left.\begin{aligned} & \text { pass a great portion of their time confined in } \\ & \text { stalls. Not only is there, in consequence, a a }\end{aligned} \right\rvert\, \begin{aligned} & \text { from shrinkage or original carelessness in } \\ & \text { fitting the planks and joints in, the floor on }\end{aligned}$ stalls. Not only is there, in consequence, a
great loss of valuable fertilizer, but the liquid the planks and joints in, the floor on
each side of the gutter behind are so open a xcrement accumulates and rapidly patrenies,
siving rise to various noxious gases which
ontaminate the air, and cannot fail to prove onntaninate the air, and cannot fail to prove
njurious to the animals who are compelled 0 breathe the poisoned atmosphere.
In some stables we find no pretence what-
ver at drainage of any sort. In others, perhaps in the majority of such buildings,
arainage is attempted, but on various accounts is ineffectual. For example, the floor is made of conmon pine plank, a soft matands, a constant source of discomfort to the horse, and a trouble to the groom. These
floors, in most cases, slope back to a gutter in he rear. This arrangement compels the animal confined in the stall to stand always up hill, and puts a very uncasy strain on the
inews of the legs. To relieve themselves of news of the legs. To relieve themselves of back, and getting as far from the manger as
the halter will allow. Then, again, either through below than is carried away in th
desired direction. This very large portion of the urine soaking throngh the tloor com-
pletely saturates the ground undernath pletely saturates the ground underneath
nad thus being entirely lost to the farm, ac cumulates and putrefies in a hidden mass of forms of disease.
Besides all this, it too often happens that
the liquid manure which does not find its wa and liquid manure which does not tind its way
outside the stable is, for want of proper ar
angements to receive rangements to receive and store it, allowe
to flow over the farm-yard, or is washe
way by the first heavy shower of away by the first heavy shower of rain that
falls. Now, this state of things, so common on our farms, is both a seriouss waste of raluable marmerial and and a great detriment to health
It is a great mistal It is a great mistake to suppose that any
such inmpurity can be other than highly in
jurious to the anima such impurity can be other than highly in
jurious to the animals in confinement.
erican Stock Jum rican Stock Jourmal.

innie may's department
 want every one of you who has a useful idea a who wants a recipe, or wishes to know ociahle, and if you have nothing particular (
Here is one of the letters: We saw the above illustration in one of $\mid$ men by working every bit of flesh and atom of is dissolvel and added to it; make it
 lutring the time of working statute laor. Th, but it will answer now. It carries its own explanation, which cannot fail to ause a smile, and remind us of the state of the roads in bad weather.

## monet making by farmers.

Prosplerity attends one farmer, ruination an
other ; many get a sood livin, and some turn their hands to some other calling to save them
trom hosin
 egard to profits and loss, as mercantile purlthough there are many misfortunes which and the same run of common accidents which
attend every husiness, yet none need be timi
in in entering on a good, fair average farm; for if
all particulars have heen weighed and allow ance made in the purchase woney, a few disad.
nantares and vantares can be readily vercome. Even a
stock farm, badly watered, should not be dis
ourre and here are plenty of ways to secure a supply fron rain to last through the longest drouths;
and where the water is kept clean, the writer
has seen it in standing ponds preferred to pring or other fresh water by horses, cattle greatest drawbacks hecause most people dread
he trouble of keopint in morde ter the trouble of keeping in order temporary
drinking places and the losses sustained by neglect.
Making muney is as readily attained by at
ention in farmint as in trad and it is a mon error the supposs this is to be accomplished
only by the sweat of the brow only by the sweat of the brow. Industry is
absolhtely neeessary, but tact in directigng labor
aright is better than merely leading a lot of
 cullate the comparative cost of raising, ,o as as to
be certain which pays best; he will also for out how butter or cheese making and how woo
rrowing will growing will pay. Doubtless in these times of
highpriced and unreliable manual labor, a sys
tem tem of farming which will permit of a grea
deal of the land lying down in perpetual gras would pay more for two reasons:-First, less
expenditure in waze would be requird, and
2d, the fertility would not be extracted by sel expenditure in wases
2d, the fertility would
ling off grain and corn.

$$
\begin{aligned}
& \text { ling off grain and corn. } \\
& \text { line a farm has o be bolyt to commenc } \\
& \text { an agricultural career, the climate as well }
\end{aligned}
$$

When a aran has to be bonght to commence
an agricultural career, the climate as well as
the soil
 breeding and raising stock can be contrived to to
be adapted for the end of having a good deal to
sell with very littlo to buy. However, when sell with very little to buy. However, when a
farmer has become well vetsed in the price arimpr has become well versed in the price of
all kinds of live stock, it is often that orporti:
nities can be taken to luy in alow nities can be taken to buy in a low market, and
when chere 18 temporary depression, and by
feeding with any grain or atier food which ig seelling cheapy money can ther food which
manure from the consumption wade and the aanure from the consumption will increase the
Jounson the farm, being in imitation of John
Jond $a$ few other high farmers Whnnon and a few other high farmers, but
which is cery common anonta alass of tenant
farmers in several districts in Eng' 'and, and which is very common amoly a a ass of tewant
farmers in several districts in Eng' ind, and
which the frequent reat catte markets, taking
place annually at certain dute place annually at tertain dates, enables them to
make a regular practice of, for if one market
should be too hivh to answer the one mat should be too high to answer their purpose to
buy they can try others.-Working Former. A severe frost has nipped early vegetation i

 Texas wheat prospects are flattering. The
acreage in some of the wheat yrowing comutios
ir reported as full be-that
last year.
closely in two newspapers and labeling each
one, so that in the fall I can casily get at
whatever article I may neesl had a b bunch of dried penny royal in a t trunk,


Cleansing blankets pintwo large tablespoonfuls of borax and
pint of soft soap into a tulb of cold toronghly in two waters and hang them out
to dry. Do not wring them.
Our friena Mrs. Janesor says
"We farmers make a great account of our
Nork larrel in spring, and of our hams." I often have fricel pork for break fast, and,
lyay of aricty, dip each slice into a bate
ter of cogts beaten up, with flour, and then fry hem. This makes an appetizins and nutryous dish, very gool for workingmen to We nse salt mackerel at breakfast too, for he fish wagon seldon passes our door and we
re two or thrce miles from market. I am hways carefuld in removing it from the brine face of the salt water, to wash it olean and down, over lively coals, turned so as not to
lrwak the skin and left over the tire ten or
tifteen minutes until done. Thus cookel, it fiften minutes until done. Thus con
can be eaten with zest by any one.
$\square$and
ourmud,
bat-
fry


Alenallan, May 2lst, 1874
Dear Miminic May,-
Please to aceept my
thanks or theseeds and linilss or wheseat far to sayy that they ara sorpul.
tect 1 and arce doing well.
 Yourr, \&c.,
Mxxin Grav.
I suppose you have all packed away your wool.
ens and furs. Considring how wuch depends
upon their leing put
way piroperly, I will
 snys "1 find the great
secret of preserving furs
and woollens is to keep scred woollcons is to keep
anthem closely folded froum
the the air. If the egg ha
been deposited, the mis he pack is $\mathrm{p}^{1 \text { liacel }}$ in the packa gn, close box
are hid in a
or chest, our trust is that or chest,our trust is that
the insect life is des-
troyed. Paste will anwer as well as gum to
cal up the furs, if alum别



NIE MAY'S efartment. Dear Frients : 1 have received
ne very nice let. sthis month from
friends to whom prizes were
arded and sent,
an hope, girls, you II hope, girls, you
II not cease t offering prizes. I
has a u useful idea wishes to know
me. Let us be me.
nothing particula
rd at any rate. ard at any rate.
Mismib Mar.
 ase to accept my
and
for theseeds and I waited for to
you until 1 could you untill cond
hat they are spor--
nd are doing well. particularly plea:
th the iflly. th the Lill.
tours, \&c., Mixwir Gray
 their 1 being puil
properery,
puil
 of pime hrie great furs
oflcus is to keep llosely follect fron
rif the egg ha
 ckages, and they
id in $n$ close box
in Itsect life is des is well as gim

 cian casily get a roy. neth was to b
were stiflet w witl

NKets.
fuls of
 cin out, and rinse
mil hang them out
sat account of ou of oir hans,
or treak fats, and
h slice into a a bat florit, and then fry
letizing and nutri retizing
$r$ lreakfast ton, for
us our loor and we ass our toor and we
mank
manket. fron the brine oating on the sur
ash it olean
anu ash
side downe deanh
hit ant
and somk over y it by the freer nell so, as not to
ver the fire ten or
ver Thus
my oue.

Cable by way wor foriety. Trequently on our vern night in water tho freshen it; then stirred
into sweet milk scalded and thickenell with Hour or eggs.

## how to banish fleas.

The oil of pennyryal will certainly drive
these pestst off , vit a a cheaper method where
 cats into a decoction of it once a week. Mow
the herr and scattcr it it ithe beds of the
pist once a month. Where the herl, cannot
 siturate strings with it and tie them aroumd
the neeks of diggs and cats, pour $a$ little on the back and alion the earso of hogs, which
you can do while they are feeding without
 will fice from your ruadrupeds, to their re-
lief and improvement, and to sour relief and lief and improvement,
comfort in the house,
It is quite as important to have blankets
on our heeds clean as to have the shects pure and white. The Toston Jotheral of of Chemis-
cleaning tinware. Acids should never be employed to clean
in ware, because they attack the netal and Cemove it from the iron, of which it forms a
hin nocot. Rut the anticles first with rot. whitening and sweet aiece of of soft leather. finish wo. ting else will give so good a polish. To
cemove rust spots from cutlery, rub them with a common tead pencil and polish with
paperor a cloth.

I can give you a recipe for
muFpin as delicate as it is excellent. One pint of
milk, one pint of tour, two eggs nud one milk, one pint of tour, two egrs and one
pinch of satht They will bo eryry light nud
should be baked in sump phnch of salt Then will be very light and
should be baked in small tin cups or iron
corn

The dampart of new dwelung roons, The dampness of newly finished rooms is $n$ no
dun so much to the water sed in mixing the diaster, as to the water of ofydration of the


 that no injurious effects could result. that
soon as tha rooms become tenanted, the larg
 causes such rapid displicement of water, an

with it other natters indicated by the peculiar | odor, the |
| :--- |
| follow. |

Treatment of the romms with carthonic aciid


 1.500 square feet of surface, in practice tho
consumption, in a suitanle way, of albout fiv

 tenth of an inch has been anted on. This
proved $b y$ the fuat that
Trofeserer provec by the fact that Proferesor Fuxhs
detected crustic lime in wall senturise old.
Considerable has late mie $\qquad$
 "It has never failed in curing me in six or
twelve hours, and I have tried it, I should
the ing man who had been subjecet to dyentery

 Times a states rew conmunicictes to the Mredical cases of typhoid ferer is very one of whic its great value was apparent. It checks dysen-
tery and nourishes and cools the booly.
Peoe
 certain diseseses whater, nher mich more go in Ferequently all ordinary food in
oertain diseanes is rejected by the stomach Cven loathed by the pationt; butt nature, ever eeses is shenconsiaill in in some dod directly curat hative.

Dr. Alexander Yale, after siving partioular
olservations upon the points shove mentioned

 Wever. have also lately teated the valuof milk









Fig 1.- A Cikdar in Divyict Curious Growth of Trees

ig. ?-Sespevded Rack. take, and more especially is this the case
where the tree is growing on rocks, which course. the roots from taking their natura
pren Iten Island, Lake Champlain, there is a cedar
tree (fig. 1) that eets its sustenauce sare tree (fig. 1) that gets its sustenance, save
what the air giyes it, through a root that extends, like anl arm stretched ont for foom, to its own rocky foundation long ago broke off
anislipued away
 clasped hy its roots, a large stome suspelinten
over the rocky colge.
There was once a thrifty white oak tre There was once a thrity white oak tree
that, after growing upriyyt for some fect
turnefl a sloort corner and ran along horizon, tally, sending up five branches as in fig. 3 -
When young, thic tree was When young, the tree was loppel to mak part of a brush fence ; the wound healed and
the lranches took their natural upward
course, The tree grew in this form year after the fence disappearen

## North Norwich Farmers' Club

 Presinest's ADilewss.-Gentlemen-I feesorry tbat it has fallen to my mot to introduce subject sf so much importance. Since it is the
first time I ever attempted to bring anything
before the public. shall only flane at a few
points and
what curious shapes trees will sometines improvement in this department of hasbandry; our dry saason and insure a large flow of mink, con corn, five of which should be planted in hrills



 own rand moor taree of his neighbors. And, be mowod and fed in the grean state in the of horses, if a small of Auantity of grain be sup.



 amply repraid by an increased flow of The cow is emphatically a domestic aninal of
quiet nature, loviny ease and rest when satisfied with food and drink, and it is is essential that thit
peculiarity of her nature be consulted in peccliarity of her nature be consulted in th
arrangement of our pastures and waterin places. As for pasturces, cuws shyuld nut only
have a variety, butsuch a combination of grasses
as would afford them some one or more kinds in the different stareses of od vancement as on longin in
the scasson as passible. This may be acco
 grases and sowing those that will mature at with good nutritious food, salted every cther
different times in the season. The different day; and, finally, good, vire water at their
kinds whime
 and small red clover, alsike and white clover, mik faot and at a regular hour, and allown,
timathy, ret top and orchard grass, in such thalking while eniking. Never wet the teata, as
tuantities of each kind as would produce the it is conidered, above all things the most
sanne num
 quantity per acre being 25 lbs. The ground mashes before and after calvin. Always take
shoold be clean, and rich, ass well as subsoiled the chill off the water given tw the cow for a
, and underdrained ; then we would be certain of day or so after colving. to lie everer un
other matter.


Fij. s.-A Lopped Oak.


 duvise i m mixed husbandry. Some found ditfltate 1 he euranged his forder. Mr. Eikin Mott trouble. Hia stacks were built hollow, by set-
iny up a ayramidal frame in the centre. The stack is buitto on a scaffold of rails and short
poests. In building, the bundles should incline pward toward the centre. By this means a
irculation is created under and through the tack towards the centre which acts as a The enext president will be Mr. D. S. Butter-
ield. Subject, "Fruit." New Durham, Ont. B. J. P.
ication had

Gurden, (0) refard \& forest.
The IIorticulturist says: Now is the time, friends, about the 15 th t
to
29th of July, to prune and pinch back thos limbs of superabundand t luxuriance. Go Go
through the orchard, nip off with your finger-

 effective for pruning an in the the arly gatd late
winter. The theoryof this is thas explained by the Neev EEngland Farmer:
he sap that flowed up in the spring most of to the branchose and up inded ine in expring hashay gone bud
and blossoms, and in sending ont new leaves and blosoms, and in sending ont new leave
and extending the twigs. When the tree and extencing the twigs. When the tree
has dond this the sperabnidant sap ex
tends
sown the ereo throught the bark and tends down the tree
increases its diameter.
The tree now has a season of rest. The

 and shrinks before the sap is asyin in motion.
This season of rest then of thare or more weeks, is the best time to prune.
All iruit trees growing as conmon stan.
dards should be allowed
to 0 assume their nataral form, the pruner going no farther
than to take out all weak and crowhed
tranches ranches.
nome persons go into the centre of a tree
 by thinuing ont their extremities. It is al
ways better not to outa a large branch, unless it is actually en dangering the tree cousider-
ably. Taking off largelimbs tends to throw.
. ng out suckers the following summer. All
these should be rubbed off when they first hpeear.
wosdrepte par trbr Onr horticnltural friend, Mr. C. J. Miller,
of Niazara, related to us the history of a Pear tree irowing on his farm near virgil. nice, , but athont five or six years ago a large
ent
 y a strong ox
15 years ago, asserteed that he had hickeced 100
 Miller became proprietor he has repeatedly
 some eiththt ort ten barrels more have blowi
off. The tree sis sili lin bool bearing. was
 tree, but some ten years the junior of the the other, and we nuderstand is prolific with
somewhat similar results. - EEr.

Soaking see so.|kIMa skrns
 particular attention is paid to puthing the
sonil in suitable condition.
A sonkeel seel in lry and lumpy soil is almost sure to perish if
the drouth is prolongel. The dry cartl and traot the moisture leforere the troots form and begin toabsorb food frym the sooil. But it
the soil is well pulverizel soc that its natura
thend
 soaking the seed previons thatcon grontivewh shouli
take care to use the roller and harrow whith out stint.
Thlis month grape cines will throw ont

 STR. Werper bels must be hept free from
rumners, if you desire fruit rather than an in pell them orf. Mulch and water to the plant
if a long bearing season be lesired.
relations of trees to water. The general practice of the pioneers of
civilization on this continent was sto cuttown
the wood chiefly from the uplands and the the wood chiefly from the uplands and
lower slopes of the hills and mountains.
They cleared those tracts whioh were They cleared those tracts whioh were most
valuable for immediate use and cultivation.
Necessity led them to pursue the very cours
 wero made chiefly for the purposes of agri-
culture, and as every farm was surronnded culture, and as every farm was surroonquded
by a rampart of woods, it was sheltered from
the force of the winds, and pleasantly open to the sun.
But when men began to fell the woods to
supply the demands of towns and cities for fuel and lumber, those clearings were gradu-
ally deprived of their shelter hy leveling the surrounding forest and opening the country
to the windsfrom every quarter. But the
But to the wincs.from every quarter. But the
clearing of the wood from the plains while i
has rendered the climate more unstable, ha not been the cause of inundations or the dim-
inntion of strame ination of strams. This evil has been pro-
duced by clearing the mountains and lesse elevations having steep or rocky sides; an
if this destructive work is not checked by legislation or the wisdom of the people
plains and valleys now green and fertile will
become profitless for tilla become profitless for tillage or pasture, and
the advantages we shall have sacrificed wil
be irretrievable in the lifetime of a single generation. The same indiscriminate feeling of woods has rendered many a once fertile
region in Europe barren and uninhabitable equally among the cold mountains of Norway
and the sunny plains of Brittany. Our climate suffers more than formerly
from summer droughts. Many ancient streams have entirely disappeared and a still
grcater number greater number are dry in summer. Bous
singant mentions a fact that clearly illus
trates trates the condition to which we may be ex
posed in thousids of locations on this con tinent. Inousands of locations on this con- of Ascension there wa
a beantifl a beautiful spring situated at the foot of
mountain which was covered with wood. By degrees the stream became less copious and
at length failed. While its waters were an
nuall nually dimimishing in bulk, the mountain hat
been gradually cleared of its forest. The
disa disappearance of the spring was attribute
to the clearing. The mountain was planted, and as the new growth of waod in
creased, the spring reappeared and finally a tained its original fulness. More to b
dreaded the same cause -the clearing of the steep decli
vities of vities of their wood- are the excessive inun-
dations to which all parts of the country are subject. If it were in the power of man to dispose
his woods and tillage in the most advantage-
ous manner, he might not important amelioration of the general clim-
ate, ate, but he might limimish the frequency and
severity both of droughts and inundations, and preserve the general fulness of streams.
If every man were to pursue that conrse which would protect his own grounds from
these evils, it would be bufficient to bring
and about this beneficial result. If each owne-
of land wonld keep all his hills and decclivi-
ties and ties and all slopes that contain only a thin
deposit of soil or a yuarry, coverell with for-
est, he would lessen his local inumdations from vernal thaws and summer rains. Such
a covering of wood tends to equalize the
anisture that lnoisture that is distributed over the land,
cansing it, when slowered upolt hills,
be retained ly the nechanical action of the
 of the suil unlerneath them, made porons ,y,
mosses, decayech leaves and other dehris, s.,
that the plains and valleys have a molelente
 the water, when precipitated npon the shopes
would immectiately rush down over an
unprotectel surface in torrents upon the
space becow. unprotectel
space below.
Every onc
Every one has witnessel the effects of
clearing the woons and other vegetation from
monlerate lecelivities in liss own nuightorhood. He has ohservel how rapidy a ralley
is inumdatect lyy havy showerif the rising
grounds that form its lasin are lare of trees aur planted with the farmer's crops, wenh
grass alone serves to check the rapidity with
ghis the of the slope. Let it be covered with lushes
and vines, and the water tlows with a speed
still more diminished. Let the shrulhery
row into a forest and the valley would nerer still more dimininished. Let the shrulbery
grow into a forcest and the valley woull never
be inundatel except hy a long continued and
flooding rain. Woods and their undergrowth
are indeed the only barriers against frequent
and sudden innd are indeed the only barriers against frequent
and sudden inundations, and the only means in the economy of nature for preserving aul
equal fullness of streams during all seasons equal fuline
of the year.
At first th
At first thought it may seem strange that
the clearing of forests shonld be equally the the clearing of forests shonld be equaly the
cause both of droughts and inumdations; but these apparently iucompatible facts are easily explained by considering the different effect
produced by woods standing in different situproduced by woods standing in different situ-
ations. An excess of moisture in the valleys comes from the drainage of the hills, and the
same conditions that will canse them to be Iried up at certain tin
be flooded at others.
Nature's design seems to be to preserve a
constant moderate fullness of streams and standing water. This purpose she accom-
plishes by clothing the general surface of the cuntry wis woot. When man disturb quis arranges whement he hat may neveror antice evipated. We
que not, however, to conclude that we may
are are not, however, to conclude that we may
not improve the soil and climate by changing the original condition of this wooded surface. The clearing of the forest may be re
duced to a science whose laws are as sure and nexceptionable as those of mechanics and
lydraulics. Though it has not gained much attention from the public minul, it is well un-
derstood by the learned who have made this erstood by the earned who have made this
branch of vegetable meteorology their speial study
Our da
Our danger lics in neglecting to apply
hese laws to operations in the forest and preferring to obtain certain immediate commercial advantages at the risk of inflicting vils of incalculable extent upon a coming
ceneration.- $W$. $F$. in," Woods and $B y$. eneration.-W. W. in,
Weys of New England."

Mr. D. S. S. Butterfield read the paper on the
cultivation of fruit, which we abbreviate :1 shall contine my remarks wholly to the cultivation of apples.
Fruit culture is a.
Fruit culture 18 a branch of agriculture
which we are all as farmers interested in to a reater or less extent; more particularly the
raising of apples. Any farmer can aford aising of apples. Any farmer can afford at
least to raise apples enough for his own family. There is no kind of fruit more gener-
ally used than apples.
Other fruits may ommand a higher price, but for usefulness
and general consumption with all classes the apple stands at the head. A writer on the abject once said he thought it would be as
greater loss to have apples taken away than all oter loss to have apples taken
Itherk it is of fuxit combined.
I think it is just as casy to raise a first
class apple as it it a a poor worthless one, not
fit or a hog to eat.
iviews of raising aive you my
vieng orchartl. The first views of raising at. young orcharive , The my first
object will be to select a goorl location for all orchard, and I would recomment a rolling
piece of ground with a northern descent if such a piece is convenient; if not, any other
excert an eastern. I would prefer a strong
lay except an eastern. 1 would prefer a stron,
clay loan, and if not naturally drainel, I
would underdrain it if if not able to do that I would surface drain it with open drains, a
fruit trees will not thrive well on a soil satn ruit trees will not thrive wel on a soil samy
rated with water: the trees will be sickly,
and have a tendency to raise out of the ground.
It is a
good state of cuitivation and well manured thi previous crop-a hoed crop of some kind,
although I have hal very good success in setting treses in a good clean sod of cloven
mid timethy $:$ hut it reynires more work in setting wit the trees.
Having the rround all Pepared I would go (o some reliable mursery and select my treat
 he avoided. I have found by purchasing
trees of different prartis, that were cieivered,
nany of them tradly bruised in the boolies as well as ronts, causci lys carelens handing in
taking up and loading; such handling will aking up and loading; such handling will
show itself in their growth (if they grow at
an) ifter hing I
I
fect
ncr
tre
tre
11
I
2
aga
ug
pin
isw
win,
win

Bellflower, 1 Northern Spy, 10 W
Rock, 10 sock, 10 Roxbury Russet, 10 Golden Rer, 2 Rus
set, 25
Rhode Island Greening, total 100,21 son to have green apples the whole year. per son to have green apples the whole year. I
think this number of varieties quite enough
for profit in any con for profit in any con*on orchard. There
are many other good varietics that I have
omitted. If I were going to enlarye at amitted. If I were going to enlarge the ncrease the number of the last five varie
ties, as I consider them the best ship ties, as
ieties.
I wo
ceive th I would open a place large enough to re.
ceive the roots (not dig a hole and cram the
coots in rooth in, as set in the nursery; see that the
depth they set roots are all straight and natatural ; after put-
ting in a few shovelfulls of fine earth or mould, put in a part of a pail of water, move
the tree gently up and down that the soil
may become thoroughly may become thoroughly mixed with the roots,
then fill up even with the surface then soil geperch with the surface and press
the thing
quite important is to have the trees in string quite important is to have the troes in straight
rows cach way. After the orchard is set stake and tie every tree with good straw flat the wind may not cause them to lean.--
fter this is all complete, mulch every tree If these rules ore straw
will not complain of trees observed yo think one graten cause of a a failure in raising
an orchard is carelessncss in an orchard is carelessncss in setting. Our
dry hot summers are very trying dry hot summers are very trying on newin
set trees, unless great care is used in setting them. The same rules will apply to taking
up and setting every other kindof trees Ap and setting every other kindof trees. ground in ome seme kind of at I woed crop and keep
the land well manured the land well manured; wash the trunks of
the trees every spring with strong oapp suds,
as it has a tendency to keep off insects, be sides giving the bark a rich glossy appeaa ance. Keep them well trimmed so as to form
an open, well-balanced top, not too high from
the ground, and the fruit will not be so likely the ground, and
to be llown off.
To protect young trees from mice during mound or hall around the body and keeping
the ground clean tatives as I ever tried. In taking care fen old orchard I would graft every tree that does not produce good, profitable fruit, unless
the tree is on the decay ; in that case I think it would be useless. A person who has not
tried the experiment would be surprised to see in how short a time newed. If you cannot do it yourself, em
ploy a reliable about a great reformation in your trees in
about three years. Many people make a about three years. Many people make a
great mistake in cutting off all the top of a
tree the next year after being grafted: the tree the next year after being grafted : the
consccuecrice is is nine cases out of ten the tree dies. You should be at lea
years cutting off the natural limbs;
time the grafts will time the grafts will be grown so they ca
take the place of the natural branches.
is a good plan to scra is a good plan to scrape of the rough bark
of olld trees carly in the spring, and keep the
gronud well cultivatel, or if kept in sod, ground well cultivated, or if kept in sod,
well manarcd around the trees.
We Te have one great enemy to contend Caterpillar," which yon are all too well ac quainted with theed description from mo
My plan of destroning then is as soon as
disoover their nests or webs whis is diso over their nests or webs, which is about
the 10 th or 15 th of May, I nail a small piete of long-wool sheenskin on the end of a long
pole, and with soft soap reduced a little with kills evcry, give that the soap touches; कne or
two anplications will generally go over the orchard two one thre
times times in the course of the spring, and if all
would try the same experiment, in yeurs they would loe anmininilatell., In a hewe not
been troubled much for the last two years with these pests, but there was another very forminable enemy that made its appearance
last season that did a a great deal of mischief
in our orchards : that wat Th our orchards; that was the apple worm.
There is a small grey winged miller that de
mite posits the eggs in the phossom end of the ap
ple as soon as the ple as soon as the apple is formed, and the core of the apple, causings many to drop off,
and those that do not drop) off are injured so
 warm nights, the fore part of Junc, which
would attract the millers, thereby dostroyin them in great numbers, It think it would b. b
advisable for all to try the experiment.
mond dr
tual agg
the stri
derest
for insta
lina and
whecher
dues not


## FARMER'S ADVOCATE:



## trkes and heatith.

Trees are the great oxyen producers, thus
furnialing to the eirir what man most requires at the ame time extracting from it carbomi,





 hanging treessisuruisheret hemen in it is found quaity of mut ton and wool when in phstures


 duce tuy treses shat preterna.

$$
\text { the } \overline{\text { arve. }}
$$




 Kiliop fields have been sol hady yrarigev by



 pioners as desivectants.




 oxygen in light. Flowerys destituto of pre amonat of ofzne seems to be in proportion th
 tricts, and intested with noxions exxhalititions
 emited from them may exert its powerfil


## 

佸d he called upon us the other day with
 frultion on of hid
fuly


 county,
Reciece.



 Whit beof is to the E.ngish. Some faneiful known pugnacity of the French ly attribu
ing it to feeling so cxclusively he this as it may, the official higures foot up
the egg crop at something enormous. The latest figures that we have) says: France anmualy proluces 7,000 millions of eggs, and
cstimates the whole poultry wealth at 909
millions of francs Wits of fanes.
well set up for an authority in the Poultry
Yard. As far as we can learn the favorite
ored of France is lred near Houla hence gets its name, though there are and cral others very lighly esteencl. Houlans
are especially esteemal for the table. They
are of short lem, and but little offal. The phamage
is invaribly white and llack spangled, witl
heary heary, crest of same colour; the comb, i
triple, the outer sides opening like two leave
of a book; the iimer having the applearanc

 ently quite hardy; they rarely ever set,
however. For close guarters we should not hesitate tor reco
Fie:m Journal.

A patent has been taken out by a party in
England for treating linseed and other seed
and vecetable vils and vegetable oilk so as to give to them the
adrantago derivel from boiling without hav-
ing recourse to that process, and to retain other propertics unimpaired whinh boiling
destroys.

## "3

TOCK \& DAIRY
o ascertain
First, see that the animal stands square,
then with a string take his circumference just
behind the should trele hen with a string take his circumference just
behind the shoulder-blade, and measure the feet and inches-this is the girth. Then mea.
sure from the bone of the tail which plumbs
the line with the hinder part of the buttock, sure from the bone ordhe tart of thich bpumbock,
the line with the hinde part
and direct the string along the back to the fore and direct the string along the back to the fore
part of the shoulder-blade, and this will be
be art of the shoulder-blate, and this wh: Sup-
the lenth. Then work the figuresthus

pose girth of bullock 6 feet 4 inches, length 6 | 23 so |
| :--- |
| hy 2 |
| supe |
| seve |
| 7591 |
| nine |

## 759 $\begin{aligned} & \text { nine } \\ & \text { the } \\ & \text { sup }\end{aligned}$ supe <br> \section*{$$
1
$$

}to $m$these
molt
lowe
mea
sire
in
in le
suna
 square fect, and these multiplied by 16 -the
number of pounds allowed for cattle measuring
less than 5 and more than 3 feet in less than 5, and more than 3 feet in girth-make
356 pounds The dimensions in girth and
1 ngth of the back of cattle, sheep, calves and 1 neth of the back of cattle, sheep, calves and
hoges, taken this way, are as exaet as is at and
necessary for common computation or valunecessary for common computation or valu-
ation of stock, and will answer to the four
ouarters of the anima quarters of the animal, sinking the offal. A
deduction must be made for animal's half fat,
of one pound in twenty from those that are of one pound in twenty from those that are
fat; and for a cow that has hal calver, one pound must be allowed in addition to the one
for not being fat, upon every twenty.-Ped-
der's Land Ilcasurer.
-
Early last sumer thin in new jerser. syptoms of summerer there were unmistakable
in eome of the large dairies in in Esseng and Uneows Union
in counties, New Jersey. Since then this disease
has sprealr rapidy, and the loss to farmers in
th'se c unties is heavier than it was ayo, when the same disense created so much ex
citement among cattle growers in the State.
Now the facts have been kept secret stead of the tarners srying, as they did former-
ly, ocure the disease by medical treatment,
another Iy, to cure the disease by medical treatment,
another plan has been adopted. Just as soon
as the disease shows isself, aud . before the cows lose much flesh, hie diseased and
the butcherer for about hlf pric. A cow that
is worth to the butcher, if in good health, $\$ 30$ is Wroth to the butcher, if in good health, $\$ 30$
to $\$ 70$, will hring $\$ 2 \pi$ to $\$ 30$.
Some ide of the spread of this disease may
be gathered from the fact that during the last be gathered from the fact that during the last
eight months taking a circuit of gix miles
around Newark, here have been more than ion diseased cows slaughterel in New ark, this dis-
eased meat being sold to her citizenk, while the milk from the animals affected has been cun-
sumed by the people of both Newark and EIza-
beth, daily since last May. The disease exists
 cows and lost four by death. Another has lost
12 ly death and osld 12 diseased animals. The
disease is spreadin" raydy in the ais. disease is spreading rapidy in the vicinity of
Lizizabeth. More than a dozen farmers within
two or three miles of the city have their cattle two or three mi.
infected by it.
At a meet $i$
At a meeting of the Executive Committee of
the State Acricultural Society of New Jersey, lowing resolntion was unanimously nassed : Whereas, this Socicty has been appealed to
to aid in stopping the introduction and zale of
diseased cattle from other States; be it diseased cattle from other States; be it-
$R$ Reso ced, That the Legislature of this State, now in session, be memorializell to appoint a,
comminttee with fnll power. to examine into the
nature and procress of this disease hature and progrees of this disease known as
pleuro-pmeumonia, mist fatal, and other dis.
 secute and offending parties who may be im.
Ilicated in such introduction and sale.- N. $\boldsymbol{Y}$.
Tribene.

Long Wool.-Mr. Hugh Love. sen., of Hay,
has sent us a specimen ef beautiful fine worl, Ineasur nor neary seventeen in inches in length.
This wool was cut from a Cotssold ten and a half months old. Mr. Love informs
us that the lamb will clip at least furten
p unds of clean waaled wool of equall and length with the specimen referred to. ${ }^{\text {andy }}$ also states that he has $a$ number of other sheep which will shear almost if not quitite es sucheh.
Mr. Love has gone to much expense and trouble to improve his stock of shepen, and the thouble
facts show that he has not labored in vain,-
Expositow

Ha the sheer gad-fly Having attended to the sheep gad-fly,
few observations relative to its habits deemed pertinent, derived from personal observation. It makes its appearance in our
latitude in July, but is not numerons annoying in August. Its presence is certain when a few sheep are seen in groups, in the middle of the day, holding their nosses close
to the ground, which is an instinctive de fence against attacks of the fly, which, how
ever, in an unguarded ever, in an unguarded moment, deposits its
eggs on the margin of the nostrils. The eggs on the margin of the nostrils. These
are soon hatched, and the larvae immediately
find their way up to the find their way up to the interior of the nose,
till they arrive at the till they arrive at the frontal sinus-a cavity
situated between the layers of the frontal
bone, and which is of considerable size bone, and which is of considerable size in
the sheep, and here they subsist on the mucus secreted. If the number exceeds th
supply of mucus they crawl to the b supply of mucus they crawl to the brain,
when death to the sheep is certain to follow. Having lost sheep from this cause, in one
instance 1 opened the skull and found five o instance I opened the skull and found five or
six grubs or worms attached to the brain
which were half an inch in which were the stem of a clay pipe. The
the size of the animal for a week before its death pipe. The great distress, refusing to eat and constantly
holding its head to the ground, which is an invariable symptom.
Blacklock, a distinguished veterinary sur-
goon, says tobacco smoke is the only avail goon, says tobacco smoke is the only avail-
able remedy, and a yery goot one, being
easily brought in contact with the worms and when properly administered, certain i its effects. One person scoures the shee
holding the head in a convenient while another, having half filled a pipe with placeso, one or two folds of a silk unsual way over the opening of the bowl, then passes th
tube tube a good way up the nostril, applies his mouth to the bowl, and blows vigorously
through the handkerchief. When this has
continued for continued for a few seconds the pipe is with-
drawn, and the operation is repeated on th drawn, and the operation is repeated on the
other nostril. As nothing is more abhorrent
then to insects of every kind than the odor of tar
the prevention I have recom smearing the nostrils of shcommended of with it at
intervals during the tlith an effective sateguard against fits attocks.
Thousands of shcep die anmuall cause. Let the prevention and remedy sug
gested be applied gested

The 8 The subjoined stanzas have been long and
popularly known to old country stock men as
pointing out in a fo. pointing out in a fo.m easily remembered the
good points for a cow :She's long in her face, she's fine in her horn,
Shell quick ly get fat without cake or corn
She's She's clean in her jaws, and full in her corninine,
She's heavy in flank, and wide in her loin. She's broad in her rihs, and long in her rump,
Shes straight in her back, and without a hump She's wide in her hips, and calm in her eyee,
Shes's fine in her shoulders, and thin in her
thighs. She's light in her neck, and small in her tail,
Sbe's wide in her breast, and will fill the milkShe's pine in her bone. and silky of skin,
She's a dairy without- a meat market within. the olid type of hof
A paper was recently read before the St.
Louis Farmers' ('iul, by Prof. Tracy, who thus described the hog of the old type: :-
You who have lived through half the al. You who have lived through half the al-
lotted age of man remember well that old
type of the Western hog He looked like type of the Western hog. He looked like
bail cross between an alligator and a fence rail; a miserable, lean, lank, bony, lantern-
jawed, long-taced, long-tailed, long-legged, long-haired, ugly and vicious brute, sufti-
ciently dirty, , ,idideous and reppulsive, and but
one remove above the wild boar of the olth Enrolulterated American hog of thirty year
und ago. How they ran wild through the woods
and hazel thickets, their ugh! ngh! sounding
like the twite sàage. You ask if they are good feeders?
Excellent. A large herl of them would hreed a corn famine in a whole county. But
fatten! You might as well talk of fattening
a child's doll by stuffing it with bran They were so wild and restless that they could not root under or crawl through a a fence that
would turn large snakes, and do anything but climb a tree to commit depredations.

## e sheep gad-fly, a to its habits are from personal ar

 from personal ob-appearance in our appearance in our not numerons and in groups, in the
$g$ their noses close
an instinctive an instinctive dement, deposits its larver immediately
later
iterior of the nose, tel sinus-a a cavity
tal of the frontal ers of the frontal ey subsist on the
umber exceeds the awl to the brain,
is certain to follow, this cause, in one
11 and found five or ched to the brain
n length and nearly a clay pipe. The
ats death exhibited eat and constantly
round, which is an hed veterinary sur-
is the only availwith the worms,
nistered, certain in nistered, certain in scoures the sheep,
nvenient position, If filled a pipe with
in the usual way a silk handkerchief owl, then passes the
nostril, applies his blows vigorously
f. When this has ds the pipe is with-
is repeated on the y is more abhorrent
han the odor of tar han the odor of tar
recommended of sheep with it at
of the fly will prove gainst its attacks.
annauly from this
n and remedy sug.
ave been long and
mntry stock men as
fine in her horn, ot cake or corn;
d full in her chine,
ide in her loin long in her rump,

and withnut a hump; | calm in here eyers |
| :---: |
| rst and litin in her |

 silks of fkin,
satat market within.

real before the St . | the old type the |
| :--- |
| trough haif the al. |

 ligator and a fence
nk, loony, lanterntailed, long-leggen,
cious brute, suff.-
repulsive, and but
 hog of thirty years
through the woods


 that they could not
hierous! they would
ough a fence that and
it depredations.
obigin of the duchess short-horns.
T. R. Jameson, in a recent address at the University of Aberdeen, Scotland, thus de-
scribes the origin of this famous strain of catThomas Bates geems to have selected his
Duchess tribe on account of their combining readily. I believe Bates is generally coneidered to have been a trustworthy man in his
statements, and correct in hid facts, although many thought he hail an ou overweening opopinion of his own stock. He tells us that his first Du
chess cow, which he bought from Chas. Colling chess cow, which he bought from chas, Colling,
gave seven galions of mer day, nanely,
fourteen quarts each milking per the practice b. fourteen quarts each milking, the practice b.
ing to milk only twice day day mirning and
night, and the milk yielded eivhteen imperial
 pounds of butter in week, He never hasi ax
pewthat to his knowledge gave more than this.
This same cow was the dam of the bull Ketion, a very fine animal and an excellest sire. As the Duchess tribe has become s. famous
and sells at such enormos prices, I may here
give few particulars regarding it. The first ive a few particulars reyarding it. The first
of the family we hear anything of was bought
y Chas Colling from the Duke of Northum by Chas, Colling from the Duke of Northum-
berland's agent at Stanwick, in 178 It, for the
She nodest sum of thirteen pounds stering. She
was a massive, short-leg jed cow of a yellowish
ed oolor. with the breast near the ground red color. With the breast near the ground. She
had a white batck, and was a great grower.-
Colling called her Duchess and had often deColling called her Duchess and had often de-
scribed her to Bates as very superior animal,
particularly in her handling ; and told him that e considered her the best cow he had ever seen, jut that he could not breed such a good one
rom her She was descouded from the old
toock of Sir Hugh Smithson, of Stanwick. tock of Sir Hugh Smithon, of Stanwick,
Thomas Bates bought from Coolling one of the
desoendants of his cow in 1804, for 100 guineas, eing the same I have mentioned as being such
fine dairy animal, and he bought another at
 183 guineas and styled her Duchess 1st: and
from her all the present family descended.
Bates tells us that he was induced to select this Bates tells us that he was induced to select this
tribe from having found that they were rreat
frowers, quick feeders, with fine qualities of neat, oonsuming little feed in proportion to the
progress they made, and also from finding thet they wertequally remarkable as great milkers.
Bates asserts that the tribe improved under his care in regard botht to growth, aptitude to fat.
ten and small consumption of food ; but admitted they gave less milk than the first cow of he tribe which he bought from Colling in 1804,
although what they did sive was richer in but-
I have seen no statement of the actual ter. Thave geen no statement of the actual
produce in inilk from any of them, except the
first one in 183t, and am unable to state to what first on
extent
cows.
We
We

We breed in readily allow that form and aptes improvered to faten, for several of those he produced, especi-
dily after the cross between
Belvedere, were remarkably fine animala, and at the first show
of the Royal Agricultural Soceiety 'f Enghand
which took place at Oxford in 1839 , he carried off all the prizes in the Shirt-Horn class, ex
cept one, for which he had not an animal pre
sent. Bates' herd was sold off in 18j0, shortly sent one, Bates herd was sold off in 1850 , shortly
after his death, , wd the animals were dispersed,
nid fell into vaious hand of the Duchtss trilee were bought by Lord Du
on the cie ; and when that nobleman's herd came to
he hammer in 1852 , the Americans carried off several of the choicst, at great prices. At the
present time, I believe, Col. Gunter's herd contains the purest representatives in England,
and his Duchess 7 th well maintained the fam of the breed by beating all others at Leeds and
elsewhere carrying oft no less than nineteen
prizes and seven challenge cups ; but the Col prizes and seven challenge cups; but the Col.,
hhving experienced some of the evils resulting
from the state of fatnees in which it is neces having experienced some on which it is neces
from the state of fatnees in whi
sary to bring out the animals sit these shows, I selieve wisely declined to exhibit.

If I could have but three animals on my arm, I would have one cow and two hogs,
and I would feed the cow very liberally, that I am very confident that if brother Smith
understood the selection and management of swine as well as he does cows and oxen, and he would keep a proper number of the right
sort, that he would make much mure noney sort, that he would make much mure nuney
than he does without them. When I was a hog breedler, my swine bore a way the highest
prizes wherever I exhibited them in compeition with all that came far and near. For
twelve years I was an exhibitor of swine in several States, and sold all that I reared for to six months. selling them usaally at from six weeks
rarely sold a pig for less the six months. I rarely sold a dig for less
than $\$ 50$. When I discontinued swine breed.
ing some twenty years since, I sold a sow ing, some twenty years since, I sold a sow
which was six years old, for $\$ 100$; and the prizes she and her pigs received, and the
amount re.lized from the sale of her pigs, was \$13s0, making, with the amount for which
the sow sold, $\$ 1480$, and this was done in five

 calves. Now 1 contend that thise., materenial

 the monestatat any mone can make by feeding It atate of any yge



 lach ina sepparatop pen, feoct then so iliberally
 bedding in cold weather but none in hot
when they should have access at will to a
bath of clean water. The bath tub should be a strong plank box, eight inches in depth, se should be supplied with a plug near one eorner, by removing which the water may be
drawn off. Charooal, with a slight sprinkling of sulphur over it, should be kept under roo
where it will be accessible at all times, and in another box salt should be kept, and none
should be put in the food. All the food should be cookel. The swine should have good scrubbing with carbolic soapsuds, using
a brush, at least once a week in warm wea
ther. No labor or expenditure of money on the farm will give a better return than a proper
number of the right breed of hogs thus kept.

к EEP SHeEp.
Farmers shonld all keep sheep, so should
all horticulturists and market gardeners, for Thereware no droppings from any animal,
size considered, that will enrich as much as sheep and do it as well. There is no animal
that will eat as great a variety of food, let it come as grain, herbage, roots or fruit. Most
kinds of weeds are palatable ; nearly all kinds of weeds are palatable ; nearly all
kinds of briers, cockle burrs and most other sheep pasture. On the farms they may be turned into a weedy corn field at the proper
stage of the corn, and they will deatroy sireat amount of weeds, very little to the
injury of the corn. In a small graiu field will grow yood grass longer by bein! past tured with sheep after mowing. Yastures
for horses and cattle will grow un, to differ ent kinds wef weeds and become almest worth-
less where shecp are not kept. lu orchards they are uscful and dangerons; nseful in
eating all fruit as it drops and destroying great amounts of troublesome insects, dan
gerous, for harmess an they are said to be they will bite thie lark of fruit trees if the
remain too long at a time.
 could pasture, and buy sone winter fece, the
farm would be lirgely the gainer and the ment in ploughling and working a porer, hilly arin; ;and on that kind of farms sheep of
any kind will do better thayl on level, rich lands.
On ri On rich liands there will be much that
wasted every year that sheep, will do well on, and, if for nothing more, they serve to
keep the pastures and fence corners clean. rate inlvainataye on the refuse sand waste of
their vegetables. The manure of shecp put in casks, wateren, and sprinkled on plants
will give them an astonishing growth. Shee well cared for will always pay, though one
may not handle so much money, for there ie not much outlay in feeching sheel , and har
vesting wool, bo that what you sell is nearl clear profit. Sheep, after six months old,
cannot die in debt to their owner, for the wool or pelt will
how soon they di The kind of sheep one should keep I will better for one breell of sheep than another ne man is better fitted for handling one
kind than he would be for others. The best plan, where one wants to thegin with shece
is to ask some experienced theep man who i acynuainted with his farm, what he shall keep
If he knows no such, write to some shee
farmer, describing his farm and location.-
Wool-growers are very willing, generally, answer all enquiries.
In conclusion I may state that it was de monstrated in England forty years ago that
an area of land capable of maintaining 1,000 sheep one year, would, by being thus appro-
priated, maintain 1,365 sheep the next year The same is true in other stock, though in
small degree.-V. P. R. in Western Rural.

 NCLE TOM'S column. Mr Derir Culubery











隹


 Mave not harar from any of yon abuty your
 tem.
baby's Advice.




new puzzles








 Whare is he E. I. o. © C. . and why in it

1 Iel- Write a sentenco of fonivienessin five 1 - 1 - Inokek thouph the A Aphabet and try
 A amall postic verse will haores.



answers.









ANSWERS TO JUNE PUZZLES




 50.-He has been to gee (eac.) 91.-ANSWER to Geographical puzzLe.






rery fill of Grace, nad then retired to milk

 Ots



 one ram brouplit 8850, with one exception


## fistellameons.

telegraph pumps. The editor of the Practical Farmer thus says are very common in parts of which he vania :
Wherever there is a stream of water, or strong spring gushing out of a hill, sufficient
to turn a small wheel, there is the material for a telegraph pump. This is nothing more
than a heavy wire set ou poles about ten feet than a heavy wire set ou poles about ten feet which wine ited at the other end with the pis ton-rod of an ordinary lift-pump, over a
well. It works low, but goes night and dom well. It works slow, but goes night and day,
and there is nothing to get out of order. It saves hard labor in doing all the pumping for the house, the overplus going to the barn, if
needed to water stock. These telegraph rods operate and are used 50 to 250 or 300 yards between the wheel and the well known them to be as long as the eighth of
mile or even one-fourth of a mile. Wh mile or even one-four where they came
frrst thought of them, or we do not know-but they aave labor
from, from, we do not know-but they save labor and their applica
happy thought.
value of our pisheries.

The report lately issued contains the fol lowing:-
adian fisheries in 1870 was $\$ 6,577,392$; 1871, $\$ 9,45,243 ; 1872, \$ 9,570,171$. In is ${ }^{\circ}$ 320,189; New Brunswick, $\$ 1,965,459$; tario, $\$ 267,633$. About one thousand decked vessels, and saventeen thousand open boat vinces, employing some forty-two thousan men. The estimated number of persons sn) the various fishing communities exceeds 200 000 souls.'
a plra for temperance-tobacio polnom The trembling which is one of the usual sympoms olronio aicotism. A very distinguished Parisian had hands which shook 80
much that he could not write. When he re mained without tobacco for any length time the tremblings disappeared. Blanton is
Another case mentioned by noteworthy. A man of forty-five years consatted him respecting violent and felt them ap proaching he was obliged to lie down, where-
ever he might be, in order to avoid falling. In the oountry, where he had plenty of exercise, they were less frequent than in the Cessation from tobacco and a tonic regimen, quickly restored him.
A physician of fifty-two was afflicted with cured by abstinence. Habit had become so strong thet he could not resist the tempta-
tion to slight indulgence. Finding that these tion to stight indulgence. Finding that thase
returns to tobacco were immediately followed ly his old painful attacks, he renounced it
forever.-Jefferson Farmer. ?
the farmprs of the west oppo
ricultural colifars
The Agricultural Congress, at its meeting
at Indianapolis, put its seal of condemnation on the colloge land grant scheme. The subject was introduced ly a representative of the
College interest, Professor Reid, of the Missouri Agricultural Colloge, so called, and
failed to reoeive favorable consideration in any other पuarter. In fact, it soon became
anufully evident to the mover that it would have been far better never to have introduce -
A new horse disease has ai pearrd at Port
lani, Me. It affects the legs, making them so There have been no fital cases.





Farmers' Markets.
English markets remain unchanged. Montreal, quiet, but steady, with a moderate
business. At New York flour was dull and eayy, and wheat without any decided London markets. Wheat-White, $\$ 1.10$ to $\$ 1.32$; Red win
er, $\$ 1$ to $\$ 1.124$, Suring $\$ 1.15$ to $\$ 1.18$. er, \$1 to $\$ 1.12 \frac{1}{2}$; S1ring, $\$ 1.15$ to $\$ 1.18$
Barley- 45 c to 6.0 ce .
Pe
Pease 55 c . to 63
Pats- 67 c to
Coac
Con
Corn-55c. to 65.
Buck
Butter-kegeg, 13.
e. to 14 c . ; Roll, 15 c . to 16c.
Cheese
Lard Lhese-9c. to
Lard-8c. c . 9 c .
Lgg-per doz,
Wool-E.ggs-per do. 1212 sc c. to 14 c .
Wool-36c. to 37 c .





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We gave AbuVe an rnaraying or a propared
The man
foliows:-
 would reoomuend the three or throe and one hal
not borew; but for all ordinary stumps the tww
nd one rions furnished for each machive "One wrought iron gorow, with nut; one oap tay frame; two atraps and two bolts, with draw
houk for lever; one hook and bolt to draw machine




 aderet istanaw by. I Munld recommiend parties fro
wood


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oroduce business. produce busineps.
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or imperfect vision from the effecto of Inflammation; 8. Photophobia, or Intolerance of
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chants, gome of them the most eminint leadin chants, soome of them the most and women of
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