## FARMER'S ADVOCATE. <br> 

VOL. X. $\left.\quad \begin{array}{|c}\text { WILLAM WELD } \\ \text { Eitor } \& \text { Proprietor. }\end{array}\right\}$
LONDON, ONT., JUNE, 1875.


Wood Ashes as Farm and Garden Manure.
One of the waifs that has come into our posses sion is a fragment of a report from the Fishery Overseer of the great Northwest. These little waifs that are borne to us on many tides we have suffient curiosity to peer into, though it may be a basket esclosing fruit brought from Smyrna, fell into the hands of an Englishman, who, too, had a more than oommon share of curiosity to know something of the unknown. The little twig he
planted, and it became the parent of all the Weeping Willows in the British Isles.
The waif we have now got hold of is not of so nuch importance, but it is a good subject for a moand what we hope it will be before many years have sped their course.
The inhabitants of the Northwest, we are toll , have hitherte been planting on the banks of the Assinniboine river, and as no man ever thought of manuring his fields, they built their cattle houses on the banks of the rivers and streams, or on the
slopes immediately above the banks, and they deslopes immediately above the banks, and they depended on the sp
No greater value seems to have been placed on manure some years ago in Ontario than in Manito ba. The writer knew, not a score of years since, a-bee to be assembled to cast away a large heap of
manure, the accumulation of many years, that had increased so from time to time that it had become an obstruction to every movement, whether of men or cattle, in the old barnyard.
Farmers have of late begun to think somewhat more of their manure, but we have some doubts of some of them appreciating it at its true value. One of the grounds of this opinion is the low estimate Why are not the ashes from our wood fires pre served more carefully, and why are they traded away for bars of soap or peldlars' wares? Every day we see them gathered in town, or brought in from the country, while the farms and gardens to which they should be applied would pay well for every pound of manure given to them.
Some farmers have even expressed doubts of the value of ashes as a manure. Whenever such Wood ashes are very rich in the mineral constitu ents of plant food, and are in the best condition to be available for their support and nutrition. wood ashes we have a large supply of potash, a constituent of food required by all the plants we cultivate with such care and labor, whether in the field or garden; for some, as, for instance, the potato, it is an element of absolute necessity. Is it desirable to add to our soil phosphate of lime, car bonic acid, and magnesia, we have them in the So it is with other elements of fertilization a phosphoric acid, silicia, oxide of iron, oxide of magiesia. All these have been proved by careful analysis to be stored in the bucket of ashes given away so carelessly, as if for it we had no use. That wood ashes are rich in the constituents of the best aud most easily attaingble fool for phants a moment's thought will convince the most seepti-
cal. The tree from which these ashes have been
immediately drawn drew from the soil and atmos
phere all those constit built it up from year to year that nourished it and remained with it as absorbed by it growth. They were part of it when growing, when grown, when fallen before the woodnan's axe, its ashes. They were not lost. Nothing in is lost. They remain in the ashes to nourish othe plants, if used for that purpose; it may be for the growth of other trees, of vines to make glad the heart of man, of cereals or of grasses-for all they are available.
For many years have I seen the good effects o applying the ashes not only of wood, but also of earth, and I have never known and even, also, of they were not of very great benefit to the crops for which they were applied. On a lawn that had be come mossy they extirpated the moss, and its place was filled with white clover. Applied to meadows the yield of hay was increased fifty per cent. Fruit rees mulched with ashes bore more fruit, large and improved in flavor; and for a potato crop here is no better manure.
Even when leachen, they are valuable as a man till they oive than her nortie ail they give them to the growing plant, the wash away from them much that forms part their great value. When thrown out uncovere under the rain, they become in a measure leached and though still valuable, they are less so than it properly preserved.
The Fall Crop of the United States. Now, as we look back at the winter through now how the long months of some anxiety rotracted and peuetrating to a greater depth tha ordinary winters, has affected the fall crops e can now form some estimate of our prospects or the season. The yicld of our crops, it is true, ay be lighter or heavier than present appearance dicate; we cannot know what the future may解 inip finitely of their fulfilment
From the Report of the Agricultural Depart ent of the United States we learn what are the that country. To us Canadians the wheat crop in little moment, as the markets for breadstuffs hroughout the world are of necessity more or les affecter by the yield of the crops in each grair bearing country, and in the United States the are ader grain crop's is at all times so great compare her. 1 lor bor any harkets grain is nose Argely shipped to the Englis arkets.
failures and of partial failures, It is always it the departure of winter, but the complaints are it scems, more than in other seasons; however hough there are doul,tless failuces of crops, with bare fields to be scelced ancw, wo do not lose heart chore our salssinters read these lina, many a velt, now party bace ant ulisky, wit have reshowers and light and heat of May. Some fields
will have been seeded anew, but though at some loss, they will, it is to be hoped, pay their expense hen the harvest sheaves are gathered home. The fall wheat has, no doubt, passed through a rying ordeal in a winter more than usually severe, Vesteme of it has perished. In some places, the Westerin states especially, it has perished or has was no shelter, no wind break to there rom being blown off the exposed wheat fields. The Canadian knows the value of the snow as a mulching for his wheat crop.
The report gives the area sown with wheat last Sill, as about nine per cent. above the Fall of 1573, being an increase of $1,500,000$ acres. This in reased area will increase the general produce of in yield would bring it below the partial deficienoy previous year. The condition of crop is not fayorble on the whole In some sections the young plant has been badly winter-killed, the latter frosts specially doing much injury. Though the frost was not more intense than in Canada, there was nore alternate thawing and freezing, and the ground was not so well covered with snow in the Northern tates. The condition as reported in April was beIn the South the condition both Northern and Southern States there were exceptions to these general conditions. Making all allow. ance we are told, for the possible improvements in the North and Northwest, it seems certain that the aggregate winter crop will be materially reduced. Those sections in which drouth prevented early seeding, and sufficient root development before winter set in have been the great sufferers. The lesson brought before us so frequently, is again presented to us this season. We note espe-
cially the destination of the crop-wherever water has beea allowed to remain on the fields. Where patches were long covered within the very roots were killed. Furrows well cleaned and water cuts pened where needed; are indespensible in farming. When the farmer has sown and covered his seed he should not leave the field till he has with plow nut shovel removed away obstacle to the runuing of the water freely.
Every where the superiority of wheat seeded wode over broadcast are conspicuously apparent Plant trees for winter-breaks, Carry off water that would stagnate on your fields. Use the seed dill.

Barley for Feeding-Here or Bigg.
reply to queries by a. s., frontenac. Our subscriber A. s., has, ere now, seen in the he the pfospect of growing barley insteal of spring wheat. It is even now too late to enter more fully into the subject, and, unless as a guide for future years, it would be wholly out of seasen to make he sowing of barley the sulpect of further co sa the only objection to the sowing of barley more ex tensively in the conntry is the uncertain prospects of a good demand with paying prices when it would buch general necessity as wheat, it is doubted by
some if the grower can rely on so steady a market at all times for it as for that grain that is above all others the breadstuff of civilized nations. There may, it is thought, be a brisk demand with a fair price for barley; for wheat, let the crup be heavy or light, and the price high or low, there is at a times a ready market.
The subject has been taken up by many agricul tural writers both in England and America. We
have, since writing on it for the Advocate of May, read not a few articles on it, and they advised farmers as we had advised them-to depend less on wheat, and, instead of so much spring wheat, to sow barley in part, and their only objection to this was the ancertainty of the market for the grain when ready for sale.
For good malting barley we have no doubt there will be always a good market. The demand for good malt drink is continuously increasing in Eur. barley can be grown is limited by soil and climate There is no grain more widely diffnsed than barley, nove more successfully cultivated under so grea diversities of climate and soil, but by far the greater part is ranked not as malting, but as feed ing barley.
For feeding barley there is and always will be a demand to a greater or less extent, as provender or stock feeding, for which purpose it stands high has been found to contain, in $1000 \mathrm{lbs} ., 720 \mathrm{lbs}$. o starch, 56 lbs . of sugar, 50 lbs . of mucilage, an $36 \frac{1}{2}$ lbs. of gluten, and this wealth of natritive elements, as shown by analysis, is fully borne out by the experience of the many who have used it a cattle food.
Barley hulled and ground makes bread, coarse than wheat and less palatable, though nutritive an strengthening. It is the breadstuff most generally ased in some countries of Northern Europe. Bere or Bore generally preferred. It has the advantages of yielding very heavy returns and of being th first grain ripe. It is sown in the fall, is ver hardy, ripens first in summer, and yields from 30 to 50 bushels per acre. The meal of bere is use in the same manner as that of oats, and mixe with it or used by itself, is much relished. It i very much used in Scotland, and hence it is know by some as the Scotch Bere.

The Cheese Market.
Some months ago we advised our frients who are engaged in the cheese business to make the in the habit of doing. We were not singular in the opinion we expressed on this subject. Similar re commendation was given at the late Convention of the Dairymens' Association. If the Canalian cheesemakers are to maintain the character of this product of the dairy and oltain for it the best prices, they must be serupulously exact in every particular connected with it. The quality of the cows, their food, the purity of the water they drink, the cleanness and ventilation of milk houses and factories and umremitting attention.
least in order to secure good prices-it must be sent to market in such size, form and manner as are in most demand by purchasers.
The Oxford Tribune, referring to this subject, regrets that more attention has not been paid by factorymen to the advice given in regarl to the
size of the cheese, having only heard of a few who size of the cheese, having only heard of a few who have made the alteration. The purchasers cesire and in this the cheesemakers must act accordingly if they study their own interest. Our American neighbors, who are always awake to what conce
their pecuniary interest, generally make their cheese of the size so much desired by buyers, and have the benefit; and there is no reason for us per-
sting in making our cheese of a size not popula sisting in making our cheese of a size not popular fit ong the advice given, and they will find on closing their year's accounts a good balance on the ing their year
credit side.

## Provender for the winter

The only well grounded cause of complaint The summer's heat, though grumblers sometimes find fault with it, has advantages more than enough to outweigh any evil or inconvenience from the heat of the dog days; and the winter's cold in its greatest extreme is a positive beneft to the country. But the winter, we must admit, is long, and while it drags out its weary length of fiv great quantity of provender used up by our stock. Hence the greater necessity of making timely pro vision for the winter, such as may leave us no losers even in our winter feeding.
Farmers have learned the value of the root-crop for feeding. Wherever we have a stock larg onough in proportion to the area cultivated, we have found the absolute necessity of turnips and nangolds to bring them in fair condition from No ember till May. Win hay stock may be turned out May in at least as good condition as when oused for the winter. But it is necessary to hav provided the dry as well as the succulent food-to have a store of hay as well as turnips. And of the one, as well as of the other, there is too often a scarcity on the farm. The season may have been unfavorable for the early growth of grass, or there may be a more than nsual drought, and the con-
sequence is seen in the diminished size of our haysequence is seen in the diminished size of our hay
ricks. To meet such cases of deficiency in our usual hay crops, and the lightness of straw, if such there be, either millet or Hungarian grass should be sown. Both are sure, when more generally is very little difference in quality or produce. Mr. r., in the vicinity of this town, saved at the rate of s1x tons per acre of hay from Hungarian grass
in 1873. This was a more than ordinary yield, but in 1873. This was a more
the yield is always heavy.
For Hungarian grass or for millet the soil should be well tilled, and this is the more necesssary as the seed is small and tender. It should be sown in Sunc. This lateness of the sowing is advantagequs
to the farmer, as he is then less hurried in his farm operations. The quantity sown is one bushel or more per acre. If only one bushel be sown, the straw is apt to be too coarse, especially on a rank soil, and when fine it is better for feeding, whether as green food or hay. It is better mowed lefore seed or stalk is ripe; while yet green its nutritive
uuality is much greater than if cut dry, and this quality is muach greater than it and nutritive quality it retains throughout the winter In this state, cut green and well savel, it is greatly relished by stock of every description, and is good especially.
Some farmers find it profitable to grow it for the sed, and by this means realize a good profit from its cultivation. The quantity raisel per acre yield is said to be sometimes obtained. We have heard of 80 bushels per acre. We recommenct it,
however, not for the profit to be made by it as a however, not for the profit to be made by it as
seed crop, but as a crop for soiling and hay. Millet especially is known to rank very high as a for
It is said to be second to no other the grasses for feeding cows and aulding to the profits of the dairy by increasing the quantity and
mproving the quality of milk,
in good health and condition.
good health and condition.
Corn and other grain crops
estroyed or so much injured may some seasons be causes as not be worth thed from frost or other In such instances Millet or Hungarian grass is es pecially valuable to fill up the waste places and give a second crop scarcely, if at all, inferior to any other on the farm.

## The Colorado Potato Beetle

From a letter from C. Julyan we take the folowing extract on the method used by him for the reservation of his potato crop from the potatoeetles, and also an article on the dangers incurred by the use of Paris green, the remedy so generally
sed. We referred to the subject in our last num. er, and though we have ere now treatel it pretty fully, we have dwelt no more on it than the imporance of the subject demands. It is one that calls or our most serious consideration. If to apply to it in all its force the old adage-"Death is the pot," no moze serious consideration ever forced itself on us. C. J. writes as follow
We cannot afford to dispense with our potatoes, although until the parasites which prey on the
Colorado Potato Beetle shall have incro ised to such an extent as to effectually check its depredations, farmers at a distance from market should content themselves with raising enough for their own use,
nd save them by hand-picking, the readiest wav and save them by hand-picking, the readiest way
of doing which is to walk between the drills with tin haif full of water or ashes in one hand and a he plants into the tin, not a very difficult matter, the plants into the tin, not a very cilficult matter,
as they do not adhere very firmly; those which fall
on the ground should be picked up and thrown on the ground should be picked, up and thrown
into the tin. They do not readily bite but when into the tin. They do not readily bite, but when
they do the best way to prevent any ill effects is they do he best aply a leaf of tobacco moistened in
said to obe the bitten part for a short time, which
water to the water to the bitten part for a short time, which
will neutralize the poison. One of my neighbors will neutralize them to poison. heeling any ill effects, but I think, had there been
fas
any abrasion in the slin of his hand, he would any abrasion in the skin of h
have smarted for his temerity.
I was last spring thinning o
bages in my hot bed, and amongst them I found potato beetle; as it presented a peculiar appearanc
I placed it on the palm of my hand and found th peculiar appearance was caused by a great numbe of very small beetles, which left the old one and
commenced running about my hand, which, of commenced running aboot my hand, which,
course, I closedend consigned the whole brood to course, I closse This seems to prove that they san
the stove. produce their young alive, and may a account for
their being so very numerous in the spring, befor their being so very numerous in the spring, befor
the early potatoes afford them is supply of foud and the early potatoos afford them an supply of food
a convenient place of deposit for their eggs.

## using: polson on planti

The scientitic and other papers are discussing the
sulbject of the danger attending the use of Paris green and other poisons in destroying insects on plants. The matter is one of great importance,
and is deserving of the carefyla attention of all culand ivators whlo are tempted to resort to desperate
temedies for parasitic pests. Tho Scientific Ameri"n says:
"The question of whether the use of Paris green (arseniate or aceto-arseniate of copper) upon pota-
to plants as a means of destroying the bugs, will tend to poison the soil, and thus render it unfit to produce vegetation, reccives a definite answer from
1'rofessor Le Conte, in his paper recently read before the Acalemy of sciences. Tho opinion, ad-
vanced and concurred in ly such high authority vanced and concurred in by such high authority
as Professors Silliman and Alexander aud Mr Mitchell, attirns umerpuivocally that arsenic and copper are poisons which act with ecyual encrgy
upon plants and animals. It is merely a matter of time, if the poison is usel at repeated periods, be-
fore the soil is poisoned so as to prevent the growth of all vegetation.
"Professor Lie Conte enters an earnest protest
ananst the present loose, yet enormous use of this gainst the present loose, yet enormous use of this
fearful poison in the hands of uneducated men. It is orderell by the western druggists literally by the ton, and repeated deaths have resulted among farmers through its careless employment. The
death of several persons in a single dwelling in this

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city from eating
green had been recently. It is ous even external
that its poisonous amount inserted
the stomach." In the Journ
tember 1874 is from Paris green, ing quite too num sons who partoo
pickle at No. 17
York, on the 19 ill, and on the Powers, died.
Ellen Burbie, tions of the ston sent detected the he was therefore
caused by arsenit caused by arsen
Paris green. In
as to how much as to how much
said that a very A juror asked
would kill a man would recomm against its use.
he would take quest that the m present would $i$
danger wo danger of using
stance of the da way about dw poisoning of the
sician in Londo
the baker had p had been painte. grain of this pain
suffient to cau little of the dus
time to time is time to time is
danger to health There is undo of Paris green
many of them, and all would pr of this fearful p ficient grounds fo the April numb We repeat we ha years, without a The potatoes hav jurious to the h
nor has the soil the slightest $p$ been poisoned so vegetation, and Professor Croft, in science, has not the slightes could be detecte 'uuiries from Co. The minut
in the stalks may them. This sh eating potato sta
their having acce should be pre non-use of any p less but injuriou Paris green, if should be bough with either plast
1 lb . to not less Plaster has the Plaster has the preferred by som tenaciously than many who have
it, is by mixing it, is by mixing
arsenic to an o
on the plants. on the plants.
In the use of In the use of
tinus. The fat
with it, though with it, though
ido potato beet
it without the

branch of farming. Prefers British Columbia to branch of farming.
Ontario. Settlers are entitled to free grants of 160 acres of good land. There are good prospects in it for a poor man. His journey from that place to his former home at St. Ma.y's, Ont., took 15 days, and the expense of travelling was $\$ 150$. Freight from Canada to San Francisco is $\$ 3.50$ per $100 \mathrm{lbs}$. ;
from San Francisco to British Columbia $\$ 2.50$. He from taking with him on his return garden and farm eeds and implements. Seeds can be purchased there, but he thinks a chaage of seed is needed. The climate is, he says, very healthy, and he is altogether pleased with the country
Mr. St. John, Cainstown, says: "I have read Mr. St. John, Cainstown, says: with pleasure ands, and as regards leached ashes, have found them the best dressing for apple tries to prevent borers and to produce fruit.

## Canadian Agrinitural

every branch of business where money is be made, men of energy, spirit and ability strive hard to obtain it. Capitalists will alvance money whenever they see a good pros
Immense sums are annually expended on the im portation and feeding of stock. Some have made money by it; others have lost. We have the name of the successful ones constantly before us; the losers drop down and are heard of no more. It is the same in every other husiness. A great deal we use, but in every business there have been those who gain and those who lose. Great profits in crease competition, until some are suro Agricultural implement manufacturers have beei ligh prices for many of their implements, and do so now for some. Large manufacturers must be men of business and ability; they can command money as long as they can show to the bankers an capitalists that more than oommon interest can be made. The reaping and mowing machine business has been very profitable to manufacturers, ions parts establishments have construction
of Amerioa for their construction.
Ohio, stands foremost at the present time as inventor, patentee and manufacturer of reaping and mowing machines. He invented the Champion reaper and mower. It is claimed that this machine will do its work better than any other in standing and lodged grain, that it is of lighter draft, more durable, less liable to get out of order, and is the most perfect harvester and mower in the world. made in the States this year.
The Champion meapers are
Oshawa by the Joseph Hall Manufacturing Company. Mr. F. W. Glen, the present manager of this company, took us through this large establishment, which we consider the king of Canadian agricultural implement manufactories. Four hundred men are now employed in this estabish ment. The great work now in progress is the con We were shown the process from the making of the wrought iron frames to the finishing touches of the painters. The hands, as we passed through, were not only fitting, but in two places had the works put into rumning order to be sure of their being right. At the last place the whole machine wai litted and run by steam power at double speed to have it fairly tested in all its parts. Even the woo vas imported from them. The hern of sare their construction and on the material used.

This company is now constructing from 25 to 30 machines per day. At the time we were thereMay 13th - 600 had been shippen, and ords manufac turing 2000 this year; they only manufactured 250 last year, but the reports of the great satisfaction they give ensures their sale this season. They in tend making 4000 next year, and devoting their whole force and energies on these mach are already making their preparations. We approve of specialties, and believe that better implements can be got up ar cheaper when a person
to a specialty.
They have disposed of their hay rake, seel dril and broadcast seeder patterns and interest to a new company formed in Oshawa, under the name of
Mason Manufacturing Company, with a capital o $\$ 100,000$. The new company has now the hat factory for its works
Mr. Glen has fortunately secured the good will
and aid of Mr. Whiteley, the inventor of the and aid of Mr. Whiteley, the inventor of tho Champion and the owner of the moster patents in the States, Canala aurd Europe ; Mr. Whitely stands among manufac turers as Mr. Barnum does among showmen-minu Barnum's humbug. He has also secured the goon will and aid of Mr. L. H. Lee, a most experience manufacturer. Thus he feels doubly safe in his reat undertaking.
We must congratulate the inhabitants of Oshawa on the acquisition gained in securing Mr. Whiteley aid and capital; this will tend to make Oshas the prosperity of this already prosperous place. No town we know of shows greater signs of prosperity; at 12 and 6 o'clock the streets are almost black with mechanics, resembling bees at swarming time as they come from the various factories. Uther

## Free Grant Lands.

To "A Correspondent" who wishes for some information in the Farmer's Advocate respectiing the Free Grant lands in Canada, we would premise well, we may say necessary, for him to spy out the lands himself, to examine the soil, location and pre sent and expected means of access, before he take up his homestead in what must be to him au un known country.
Not having official information on the subject, we give a brief sketch derived from what we believ reliable sources. There are two principal localitie in Peterborough and Ontario counties to which es
pecially emigration is chiefly directed. The first is north and east of the village of Minden, and in cludes the townships of Minden, Stanhope, Anson, Hindon and Glamorgan. The route is the Toront and Nipissing Railway to Coboconk, 88 miles, an thence by stage 20 or 30 miles. The Toronto an Nipissing Railway is gradually exten
and will soon reach these townships.
The other locality is north-east of Baysville, and Victoria County, and Sherbourne and McClintock in Peterborough County. The route is the North ern Railway from Toronto to Bracebridge, 120 miles, and thence on foot 10 miles to Baysville The surrounding country is good and nearly all unsetlec. An excellent belt of land stretches acros it is north of Ridout and Sherbourne. Some of lies on or near the Colonization Road.
A writer in the Montreal Witness thus describes land is granted.
The surface of
district is generally rough and hilly, but fully two-
thirds of it is good arable land, rolling, but not so the gathering of the crops, with some loose stone
the gather scattered over it, and timplered with hard wood anid rew pines. The remaining one-third is rocky and it is nearly as woll tisture and to lead as the best. The soil is a clay loam, with some sand and gravel inter--
mixed, and resting on a gravelly or clay subsoil. It dreed, nd becomes on a gravelly or clay subsoil. to
fork very quickly after
rain. Lime exists in very small quantities, if at at rain. Lime exists in very small quautities, if at
all. The water is very pure and as soft as rainfall.
The deficiency of lime would inl The deficiency of lime would indicate that the growing of wheat could not be very extensively
followed; excellent crops, however, both of finter
and suring wheat, are grown, and a samy from for and spring wheat, are grbwn, and a samye from
Muskoka was awardel the first prize at the Ontario Provincial Fair in 1873. For oats, grasses and
and
 nate is very healthy; ague and other malarions
liseases are unknown. The lenth and temperature of winter are about the same as at Montreal.
The cold is rather more severe than in Southern The cold is rather more severe than in Southern
Ontario, but its steadiness and the protection of the Ontario, but its st much less disayreeable. Frost
forest render it muly generally comes early in October ; last fall on the
Ith. All the fruits grown in Ontario, except
Ith. peaches, will succeed thea has been planted long enough to bear, and that is doing well. The great-
est depth of snow in winter is from two to four and ast depth of snow in wis very rare.
a half feet. Drought
The rices of produce depend
The prices of produce depend on local demand,
an the distance and the roughness of the roads as the distance and the roughness of the roads
render exportation impossille; lint the influx of new settlers and lumbermen made a good market
nend
for all the surplus products of the country. Freight for all the surplus products of the country. Teibt.
from Toronto to Baysville costs about $\$ 1$ per cwt. Trom Toronto to Baysvilie costs abouk will proba-
The settlement around Trading Lake
Ly find an outlet within three or four years by the Hy find an outlet within three or four years by the
Coronto and Nipissing Railway, or lyy a railway connecting Ottawa wer
Fvery head of a family containing children under 18 years of age, may receive as a free grant 200
acres aud an additional 100 acres for every child over that age. Every person of either sex, not the
heal of a family, is entitlerl to 100 acres. No one heal of a family, is entitled to to 100 acres. No one
can purchase government land without having pre can purchase government land without having pre-
viously located a free grant, and no one can Iocate
a free grant excelt on condition of becoming an a free grant exceept on condlition of becoming an
actual settler within three or four years, and he must commence his improvements within one year must commence his impirovements within one year
after location. The settler should ly all means
avoil haste in the selection of his land. The tran avoil haste in the selection of his land. The tran-
sitions from smonoth to rocky are so frequent and
and sitions from smooth to rocky ar
unexpectel that he can never ju
a lot by a partial examination. The amomut of money required by the settler de pends on his previous halits and experience.
man of a family with from $\$ 200$ to $\$ 400$, and sessing a fair share of prudence and eneryy, could
not fail to succectl Ho will searcely suffer greate not rainh saccech. Andions even during the first three years than the majority of those in cities and towns sistence.
We expect to resume the sulbject in future num hays and give lrief descriptions of such lands way he pecn to
hural resources.

The Season atad the Crops. The winter wheat was much damayed by late rosts ; about onc-third of the plant was killect., Sonic few pieces have boon plowed under, hut the majority stand for a crop. The present prospects
mould cause us to expect a two-third crop. The pring hasc been very pring has been very cold and thackwards shorten the crop, as it cansel much to be sown in poor order,
The peaches and graples are injured; otherwise we he peaches and trap,es are ininured; othorwso of fruit.
The first cheese market was held in Ingersoll on the 12th of Mary. A good number of cheeses were offered, considering the earliuess of the holding of the market. No sales were effected, as the prooflered ly dealers. Many dealers paid too much middemen were the losers, and the farmers the gainers both in butter and cheese.

June, 1875

On the 17th is P. o., will offer horns of Bates a
heifers, bulls an cilers, bulls an
deserving the att leserving the att
Lincoun Sher Mr. R. Gibson, Mr. R. Gibson,
four Lincoln shee erican gentleman
Government to that country. "Messrs. Simon H. Cochrane will horses, sheep and Tune 16th. Abor Hon. D. Christ
head of short-hor day, the 23rd of The Messrs. Da The Messrs. Da a
will offer for sale day, June 17th. The Executor's Bellwood, of Wil will be without will be without r
horns, Cotswold s horses will be sol J. R. Martin, o will sell about 30
shires, Cotswold shires, Cotswolds W. Donglas, of

Agricultura This company, President, has be the farmers. Th the most honoral, the benefit of far ing that this insti benefits accruing of losses sustaine rally and prom honesty were no been dome by this
tionate rates wh tionate rates wh
charger, as other Yue this Board $t$ profits to be incre
The farmers ha pany. The lusi the pay he receive 0,000 , and 50,00 are distributed o clerks are under farmers; the Boa
their pay for att is only enough to
The travelling ag age, which is no 1 Again, this com out many of the
terest is to make From the econo carried on, smal divided among s rivals.
The business of the whole Domini We say to our s
township insura township insura your buildings, th cheaper company


Notes of the Garden and Faxm
original and seipeted. MuLCHivg.- The past, winter has removed, every
doubt, if any such had still existod, of the neces. sity of mulching in the fall all lately planted trees.
Wherever this most mportant wornk wan neglected, the trees have innariably perishied. We have dirselves experienced the advantages of mulching.
The mulching we wave 'tsed for' some yearts for Truit trees and all trees not more than "a"tyed planted, we. can. recommend 'to, others. It hids
never failed us.: Cover the surface round eachtree
net never failed us., with a sod, the grass turned under. In, the fall we winvariably pursue this thethod. In the fall tof 1874 , we mulched fruit:and shade trees of twenty ditter. ent varieties, and now, an unusually long, period, not one tree has been frost-killed or ord trost-1.hine
The mulching I fork into the ground the the The mulching I fork into the ground in the spring
Strawberries covered with leaves of , trees hav Strawberries cove

Zizania aquatica, kuown iu this country as
Canada Rice, is coming into use for the making of paper. It grows in yast , yuantities on the shores
of Lakes Erie, Ontario, St. Clair and the the .From the great quantity grown on Rice Lake the qake has got its name. It is said that a supply or 100,
000 tons aniually can be obtained from these sources. The grain is largely used tor food dy the
Indians, and in Havor is superioi to most 'other cereals, It grows in shallow streams, swamps and
ponds, where it attains a heighth of 7 to 8 , and even sometimes of 12 to 14 fet.

Tyr Mark Lane E.rpress speaks in this wist of farm- yard mannure ;- "Year by year we are more
than ever convince of the superiority of of farmyard dung to any other mamure fori grass land. Gar fertilizers sometimes produce very valnable re sults, but they also often fail in consequence eithe
of unfavorable weather after they have been sown of unfavorable weather atter they have been sown
or from their not being adapted to the soil, or tor some other circumstances, whilst on the other
hand we never knew an instance where the firs named had not a perceptibly good effect. W.
more care were taken with the manure heap.
 ot Britain especially. Its averaye weight was 4 to 43 pounds per bushel. One of the best return produce of an acre and a half (L., cotch m., and this though the crop, before being cut,
contain a large portion of green stalks.

The Toas.- The American Garlen, or its edi-
tor at least, has a lingering fondness for the toad, tor, this is the way he talks about him. The toad-almost universally despised and upbraided, for his ugliness-1s, yet, a usefur, goor-natires,
quiet fellow, who recognizes his friends and those que are kind to him. We have some half dozen
who them in our small yarden, and amony them one of them in our small garden, and among then one
old patriarch who, when we are digging or hoeing, will sit winkng and llinking at uns with his pretty eyes, and often compel us to $h$. He will stay by us to get him out of harm's way. He wils stay by us for hours, eve the sparrow, the toal has been con-
hurt.
sidered a nuisance, and in some sections extersidered a nuisance, and in some sections exter
minated: but the exterminators have been only to glad, afterwards, to get him lack by the expendi
ture of large sums of money. So suseful are toads in gardens that they are sold in France by the
dozen, for the purpose of stocking garlens to fre dozen, from many injurious insects. The toall lives
them from entirely on winged insects, a al never does
almom to the plant.

Clover Turned Uniek.-Mr. J. (iregory,
few years ago, moved from Tennessee and hoogh a plantation he purchased it, with a good season would produce ten bushels of wheat per acre. I October Mr. Gregory sowed broadcast fittecn ace:
of white Boughton wheat, one bushel to the ace of white Boughton wheat, and in February following he sowed the same ground in red clover, sowing broadcast in two ways, on bushel to eight acres. He harvested ten a fine crop of hay thi
of wheat per acre, and cut same season. The next year he mowel two crops
of good clover hay, averaging two tons per acre

The third crow gew ap from four to eight inchés
hight', and in october Te plowed the colover under, plowing deep and subsoiling; sowed one bushel
white Boughton wheat per acre. The result was
, White Boughton wheat per acre. The rels of choice
an average of thirty and one-half bushels of thas,
wheat per acre. Thus, you will see, that the only Whanre used to improve the land and get thirty
mand one-lialf buishês of wheat where the could only
and

Daikr Products for New York.-From ah article on the subject, in the Tribune, we learn that
lutthg the season the New' York and Oswego Rail oad ran one train per week daaded wn other trains; 3 heese, besides a. few cars, daily 01
300,000 pounds of cheese and 20000 pounds of butter were the load on that train. About 150,000 pounds of butter were daily received from Chicag Western Railway refrigepator cars, By way of the Erie Railway, forty cleaese cars and seven to "ten
hutter ears were received daily, carrying about butter ears were received daily, carrying about
$1,000,000$ pounds of cheese and 200,000 pounds of butter. The:Deltware, Lackawtra and Wester Railroad brought in daily about 15,100 pounds
butter from $\$$ Sussex County ${ }^{\circ}$ ? $\mathrm{N} . \mathrm{J}$. Nearly all that butter frome three first mentioned routes was con-
came byothe samed to wholesale and cothmission dealers, whil that, frome New, Jersey, and large quantities fro
Northern New York and the apriver cotnties Nornt much of it, into the hands of small traden
went retailers. It was found impossible to ascer
and tain, even approximately, the amount of butbet ant chease retailers. Large quantities are sold i
the small New York'to export, but where it all comes from
Wew thot astertained. None of the butter exporte
wat was ""extra," the oonsumptive demand of the cit absowhing all
Gently mant:

Agriaultural.
Farming in Wales-A Good Example. From the Mark Lane Expuess we copy the fol
owing sketch of the farm of Major Hughes, of owing sketch of the farm of hajor ivges,
Istra, Nales, who was awarded the silver medal offered by the Agricultural Society.
"The farm of Majer Hughes, of Ystrad, is fast becoming a model farm, and after a more practica ly this name. There is some extra expense
curred for appearance sake in the buildings near curred or appene profit and loss sheet is evidently
the hill, but the rey
kept well under eye. The farm is a light dry soil, kept well under eye. The farmi is a into thirteen
and consists of 343 acres, divide. 1 int
and field 88 acres were in wheat, 12 oats, 45 , 30 now
12 mangoll wurzel, 2 cabbages, 2 vetches ing, 95 clover, and e grass, pestrent remarkably gooi and sheecp. the turnips, which had utterly failed
except the through the dry weither, bir start. The stock conand were 9 farm horses, 24 dairy cows, 40 heifers
sisted of sisted bullocks, and 24 calves. The milk of the cows is churned ly stcam power and made into butter
and from 24 to 30 calves are anmually reared on the farm. The sheep flock consists of 250 breeding ewes, supplemented by ahout the wechicrs,
in the autumn and solid out in the
in feeding is largely followell with the horned stock All clover and retches used green are passe,
through the chatr-cutter and mixel with brewer's grains, bean meal, olcake, \&c. Ao hay or stra grins, This system yields a large quantity of man.
sold.
ure, and places it where it can be most economi cally and aulvantageonsly dealt with. All the fiel
lalor, both team work and manual, is done by th piece, and a bomus is, siven for success worearing
lannb, poultry, \&c. Shis system is worthy of
more thought from farmers than it yet oltains Wherever it can be applied it must be the faires way of revararding skind sustaining him in his efforits to rise loth socially and morally, and by allopting
it the farmer must get eyual value in latoor for his Wagesf and lave his work done more youck and
equally well with proper supervision. Major Hualy wedl we plan works admirably, but he
Hughes siys thectical with the theoretical on his commines the practican win the carries out his plans
farm more than most men, and
with : ll the system and discipline of a soldier. His farming must have in beneticial indtuence in the neighborhood, in
and how to do it.

## Beet Root Sugar Culture

 Our correspondent who asks us to give in the ARMER's ADVOCATE some in sormar, will see in the he sugar beet and beet root sugar, will see in theolllowing extract a succinct article on the subject. The sugar,. even for stock feeding, is a most profit-
able erop. is not exhaustive, as it absorbs a
It portion of its nourishment from the atmosphere
with its broad and very porous leaves, and does tot feed, inless when quite young, on the rich sur-
tace soil, but sends its long top roots down to a ace soil, but sends its los
yood depth for its mineral food.
The seed, after being soaked in water, is planted
by hand or machine, using from 15 pounds to 17 Th hand or machine, using from 15 pounds to 17
pounds per acre. If planted by hand, the seeds pounds per acre. If planted by hand, the seeds
are placed 14 inches apart, and if by machine, 8 are placed
inches apart, in rows 20 inches apart. In the latter
case 28,500 to 30,000 plants could be eraised to the acre. A large space around each plant favors the large beets are watery. As soon as the roots hav
artained allength of from three to four inches, th attained allength of from commences. The soil
process of thinning out commer process of the young plant is frequently loosened and the roots kept carefully covered, until the leave have acyurred their proper development in onane. the beet, viz.: the development of the leaves, which closes usually in the first half of June; the the mididle of september or first part of October; and the production of the seeds, which takes place
the second year. When the outer leaves turn the second year. When the outer leaves tha lo-
yellow and dry, which in different seasons and calities may vary from the early part of Septem-
colober, the harvesting of the ber to the first of October, the harvesting of the
ugar beet root or mmences. The amount of sugar sugar beet reot or mmences. The amount of sugar in the sugar beet is largest when the root has jast gradually, in consequence of advancing growth
The minnufacture of sugar" begins usually in the The manutacture or segar and the beet roots are
latter part of September and
carried daily from the fields in such quantities as arien
the factory can dispose of. As son as frost becomes imminent, all the roots are gathered. After
the removal of the leaves they are buried in pits without loss of time.
We now come to the question of profits. From
Great Britain only an isolated case is furnished. A Seet root sugar manufacturer started a factory at a
bet
cost of $£ 10,855$. The total expenses per annum cost of $£ 10,845$. The total expenses per annum
were estimated at $£ 13,980$; the receipts, $£ 20,480$. were estimated at $£ 13,980$; the recelpts,
The profits hal, at the time of publication, been t 6,490, or 27.75 per cent. on the first outlay; 6.5
per ceut. of crystallized sagar had been the result per cent. of crystallized sngan iad the profit would
had it been 8 per cent. of sugar, had it been 8 per cent. of sugar, the profit wout
have been 48 per cent. This is a proof of suceess.
Germany they get 8 per cent. of crystalis. In Germany they get 8 per cent. of crystar acre.
sugar, or 1,520 to 2,270 pounds of sugar per The expense is from $\$ 132$ to $\$ 133$, of which the
(iovernment takes, in the form of taxes, $\$ 45$ t $\$ 46 . ~ I n ~ F r a n c e ~ t h e ~ a v e r a g e ~ e x p e n s e ~ p e r ~ a c r e ~ i s ~$ $\$ 161$ to $\$ 162$, of which the Government draws for
taxes, $\$ 50$ to $\$ 75$. The leaves are used for fodder and manure. For the former they are salted dow in pits, as in their fresh state they can he fed in
small quantities only. The value of this preserved leaf mass per acre is estimated at $\$ 6.35$, with hay at 100 pounds to the dollar.
From experience in Franc
From experience in France and Germany, it ap-
pears that by proper rotation of crous sugar can be ears that the proper land continuously without reucing their value, and also that the their culture has acted henticilly upon farming generally. The following may be reckoned the value of the various products of an acre of sugar
 S6.90; press cakes,
s6.30; manure (about two tons), $\$ 3.50$. Every
cent of increase in the price of sugar would be cent of increase in the price of sugar would be
equal to $\$ 15$ additioual profit per acre, and every equal to $\$ 1$, atdititioual prot the crystallized sugar
half. per eent. increase in the cold
fred hrom every 100 pounds of beet root worked, would
frold 115 pounls of sugar to the yield, or $\$ 8$ addi-
ald

The Best soil for potatses.
Years ago, when the old-fashioned Mircer or Xeshannock was the lealing market potato, farm
ers learned that this variety did best on sandy or light gravelly suils. From this fact originated the
idea that sumst inea rat sand was adapted to portitross, and
theory was not alispel when the Peachllow superseled the Mercer. For years the great, bulk of potatues for narket was grown on sully goil.
Many city people would not buy potatoes onfifieay
soil, and I have known farmers on such laud to
not grow enough for their own use, and buy a sup-
ply of potatoes in the fall. On the same farms
within two or three years, thousands of excellent potatoes, equal or superior to aly grown on sand, have been produced. We no longer hear anything
about the superiority of potatoes on sandy soil, and about the superiority of potase, I should prefer those
were I Inying for my
from rather a heavy loam, not wet, but naturally from rather a heavy loam, not wet, but naturally
or artificially drained. This change in popular
taste is not a mere freak of fashion, but is founded or artificially drained.
taste is not a mere frea
on substantial reason.
It is a curious fact that varieties of potatoes now most largely grown are the best quality and usually
the best yield on heavy soil. This is especially the best yield on heary soil on sand is poor and
true of the Peerless, which on
watery, while it reaches its best quality on a watery, while it reaches its best quality on a
moderately rich loam For Early Rose the soil
cannot well be too rich, but it can for Peerless or cannot well be too rich, but it can for Peerless or
Late Rose, or Yeachblow. If hearily manured,
Peachhlows are apt to rot, especially if the season Peachblows are apt to rot, especially if the season
be wet. If my observation of the poor quality of Peerless on sandy ground be correct, what is the
cause? May it not be the lack of mineral ele cause? May it not be the lack of mineral ele
ments, especially of potash, in which sandy soils ments, especially of potash, in whinch sandy soils
are apt to be deficient? Much of our sandy soil is considerably "run" by successive potato crops,
and this inferior quality of such potatoes may be and this inerior
diene to the alsence of potash in the soil. I should
like a careful chemical analysis of different qualities of pratoes to show what poor "wa'ery"
roots are deficient in. I have heard that potato rot has been arrested sometimes by applications of
rime of potash or of gypsum, which last is lime in $\underset{\substack{\text { anoth } \\ \text { If }}}{ }$
tato rose lee correct, we ought to be able to control it ly increasing the proportion of mineral man
ures and decreasing those from the barn- yard Hres and ecreasing anure causes a watery succu-
Fermenting stalle mant
lent growth, especially in warm and wet seasons, lent growth, especialy in warm any mineral element and if there
the qual lity and healthfulness of the crop is affected.
Those varieties which Those varieties which have small tops are less lia
ble to injury than those of carser growth, fur I do not suppose that a good Early Rose has any more
potash or lime than a good Peachblow or a good Potasl ss. The difference in quality seems to re-
sult guite as much from the soil as from the vasult t tuite as much from the soil as rom the va-
riety, and different varieties seem to be adapted to
differeut soils. Is this the result of their origin, or has that anything to do with it? Can we adap
varietics to soils by originating them there? Thes queries suggest some interesting and
fitable experiments. $-W . J . F$., in $N . Y$. Times.

Preparing Seed Potatoes. Among the multitude of questions that have
puazzlel the heads of farmers ever since the time when man was commandeel to earn his hread by
the sweat of his face, it does seem as if theremight le a few duestions which would some day be
settlet, so that this endless discussion might cease. "Deep, or shallow plonghing," "spreading manure
ou the surface, or turning it under," "churning milk or crean,",""" feeding theal raw and cooked, and wet or dry," "cutting hay early or late, and
curing it fast or sollow," "and many oth ers, it would secm, ought to .he settled so they would stay
settlect lut there are olter questions which are affectell so much by the circumstances connected
with then that it harilly seems probable that fixed rules can ever be invariably brought to bear upon then. One of these is the question of planting
putatoves whole or cut. Our own practice has been
per to select from the main crop enough seell potatoes
for the next year's planting of the very largest
ounl smoothest that could the found. These are cut and smow thest that coulk le found. These are cut
into pijecess containining one or two eyes and are
planted in drills, one piece in a place, some twelve phanted in trins, one piece in a place, some twele
to fifteen inches apart. The only variety we grow
is the Early Rose, except a few new kinds every year for trial. We have planted small seed
of late varicties both whole and cut, with goor suceess, but with early kinds we much prefer to
lavea large piece of potato, with ore ece, than a
stuall piece with many eyes. The large pices fur
 starts, and it comes ulp strong and vigorous, while
the sinall seel, whetler whole or cut, furnishes s
 to feell from the soil and the fertilizers contained in
it. If the ariety were flate kinds. this circum
stance wuld have wew it. If the varicty were of late kinds, this circum
stance would have less intuluence on the crop, as th
late putatoes grow a lons time before they heegin t forme new potitues, and thic plants have pleenty
time to gian strength of vinc before the tuber time th eain strength of vinc before the tulber
form, while, in the case of the early sorts, it

Mr. D. A. Compton, in his prize essay on the
culture of the potato, recommended cutting the seed into pieces of one or two eyes, but in an article
lately published lately published in the N. Y. Tribune, he says he
has been led to modify the views he formerly exhras bed. With rare varieties, and in moist seasons,
pressys "" he says, "cutting to single eyes is certainly advis
able, but in dry springs I am confident we greatly
inje
 or by cutting it at all. In the spring of ' 74 , after
the seed had been taken to the field, I cut enough to plant two rows through the centreof the lot
being pressed for time, ,he rest were panted whole, one medium sized tuber in each hill. Soon after
planting, the ground became very dry, and con-
tiweal greatly, growing very slowly, while the uncut see nade commendable progress. At the final cultiva
tion there was ten inches difference in the vines Hon there was ten inches difference in the vines
favor of uncut seed, and a great difference re mained throughout the season; so much in fact that
no one would have supposed looth were of on variety. Digging showed a still greater difference
in favor of the uncut seed, the tubers of which wer at least twice as numerous and of better size. The
difference iu yield compensated many times ove the difference in in cost of seed. Had the teason been moist, the result would doubtless have been other
wise. But as drought has become the rule, rather inriat the exception, our only hope, where we canno
irrigate to cultivate very deeply, fertilize thoroughly, and plant as if drought were inevit able. Within the last two years more than one
cultivator has been forcel to the conlusion that
one acre which can be easily irrigated is worth everal that cannot be."
In the same paper, Dr. Hexamer gives a carefully periments with potatoes, cut and uncut, as follow

Mode of preparing Seed

 It appears that large whole potatoos gave the
greatest yield, and very small ones and single eye
he the least. It does not follow from this, however,
that the planting of large, whole tubers is the most profitable practice. The yield given in the
talle as if field crop" is from a mixture of whole
small potatoes, about the size of a walnut, with small potatoes, about the size of a walnut, with
medium sized tubers cut length wise, and large ones cut in four pieces, one piece to a hill. The planting
of oune acre with such sets requires about four bar rels of marketable potatoes, while of tubers, such
as were used in the first experiment, twenty larrels of the very choicest potatoes, worth nearly
double the price of those planted for field crop, aic needel. Now, if we deduct the number of barrel
anl value of secd usedi lin both cases, we find that
and ban the mode of planting in common use by farmers and proves the correctness of a practice sanctione
hy long expericnce. Our own experiments confirm the conclusion ar-
rived at by Dr. Hexamer, which is, cut potatoes
require better care while planting than whole seed; Tequire heter care favorable circumstance, a much
that, under ever
greater increase can be expected from seed cut very fine, but that such fine pieces must be protecte from drying and rotting, or the
nusatisfactory.-N. E. Farmer.
The Lillooet correspondent of the Mainlar an aricultural country would surprise most me in the Eastern Provinces if they could but see th here, on land cropped for a number of years with here, on land cropped for a number of years with
out manure, and workedin the roughest manne

Comparatively speaking, one acre of agricultural and here will proluce as much as two acres in $\frac{1}{2}$ tons of wheat on an average to the acre, over o $\frac{1}{2}$ tons of potatoes to the acre, and onions such arge ovions raw raised in New Zealand, but they could ot compare with thrse raised by Lorenzo of the ountain Farm. He has raised onions weighing 2
bs., he can select a ton averaging 1 lb . each; from aoo. potato, Early Rose kind, he cut 12 eepes and
lanted them, and from those 2 ozs. he took 121
 R. Hoey raised 140 tons of potatoes; James Dickey
150 tons. This portion of the Lillooet distriet is lessed with plenty and to spare; but no market. If the Barrard Inlet trail had been finished in the been packing produce to the coast, and without doubt found a remuner stive merket, and returned than they can get them at Lillooet.

Cultivation of a Farm of Poor Sandy Soil.
An extract form the London Agricultural Grzette Maulden farm- 487 zeres of light sandy soil. "On the suceessful cultivation of the green crop
the status of the farm depends even more than on that of its wheat or barles, whether the interest of the landlord, of the tenant or the laborer be considered. The permanent fertility of the land, the
profit of the field, and the labor in which, according profit of the field, and the labor in which, according
to the wise man, os much profit lies, all hinge more
on oo the wise man, so much pront hes, all hireen crop
on the extent and excellence of the ger
than ou any other single feature of the farm." than on any other single feature of the farm." On
the Maulden farm were 70 or 80 acre of kohi rabi, an clean and even crop of some twenty imperial tons
to the and The great average crops must be put down to
to the acres good maniagement in the case of Manlden, and not
to the original fertility of the soil, which is natural. to the original fertility of the soil, which is natural.
ly a poor sand and hot gravel. No doubt the ques. y a poor sand and hot gravel. No doubt the ques
tion of garicultural merit is difficult to solve when
it lies between the skill which tion of agricultural mertit is difficult to solve when
it tiis between the skill which why labor and good
management make a difficalt but naturally
stored
stored soil produces its atmost, and the enterprise management make a difficant but naturally w
stored soil produces its namost, and the enterpr
and confidence which makes a poor but easy produce far beyond its utmost; and those wh
undertake the office of judge onght to have every undertake the omice or be ge given them of guiding
opportunity that can be is
their decision. Here it is not-by artificial manuring socisioh as by large consumption of purchased
inood that artifioial fertility is the beest conferred Too artificial manure is so complete as that which is
Nroduced by the consumption of farm produce. produced by the consumption of farm produce.
is when the storehouse of the soil is already prett
full that a phosphate or a nitrate will make th full that a phosphate or a nitrate will make
best return-the added ingredient then bringin
int reative use fertilizing matter, which, withoul best return-the addided ingreter, which,
into active use fertilizig matter,
it, would have remained effete and useless. it, would have remained effete and useless.
the other ingredientso of the complete pl
pl are not naturally present, the artificial addition
one or two is insufficent, and remains without sult. II the case of a poor sandy soil like that
Maulden Farm, it is therefore better policy to e Maulden Farm, it is therefore better policy to
rich the home made dung by added cattle foo than by a heavy bill for superphosphates or am.
monia salts or nitrates. Mr. Street has found monia salts or nitrates. Mr. Street has found
this out, and while his annual manure bill does not exceed $\pm 50$, paid for superphosphates for his green
ent cake hill, and the beans and peas of his own growth which he consumes, amount to at least $£ 100$ per annum. The 2,000 loads of farm manure and enriched, and applied almost wholly to the green crop quarter. They go to maintain the production of that cattle food, on the atter use or whost wholly to depend. "Of the green crop quarter; after wheat here are a few acres in rye and tares to be plowed
p in May and June for transplanted kohl rabi; nd there are a few acres in mangel warzel every year for the latest spring keep before the rye and and almost only green crop, is, however, generally sown, pretty much as an early swede crop would
 in rows 22 inches apart, on land which has received a heavy dressing of well-made manure. The
rye and tare white clover, and pasture fields, with a certain extent of cabbages to eke them out in drought, the clover stubble, a few early turnips,
the kohl rabi and the mangel wurzel, are the
cession which keep cows and sheep breedinq and
come at last to settle the thousand and one quesfatting stook, throughout the year. About twothirds of the baroey crop-Hane clover or with Dutch, and one third of barley stab
hie is plowed up for winter beans or peas
The ble is plowed up for winter beans or peas. The
whole of this is followed by wheat - Banham s mhowe mek $^{\text {Browich }}$ Red is the only kind sown-a portion of Bre quarter, whatever needs it most, receiving a
hall-dressing of farm manure. Atter the whleat
 again comere ery dear, as catch crops, to be fort.
exoept when ver
lowed by kohl rabi, which from bieing the rarity lowed by kohl rabi, which, from being the rarity
we once knem, for oxperimental une upon litto
wore then
 providing thififing the oonfidence thus placel in it
herpecially in adry season such as the past, when especially in indry season such as the past
$S$ wedes and turnips have generally failed.".

Associated Experiments.
It is about time that our agricultural societies
lifted themselves out of the groves in which they lifted themselveen out of the grooves in which they
 more varaied and prof tabble fields. To simply hold
an exhilition of fat, fine and fancy cattle, liorses,
 Hich, if rightly followed up, must make of him Is capable of citizens. Is not here a sphere in which our agricultural scieties may very properly and beneficially act? Engish friends-or cousins, perhaps we should lso do another thing that we may very wisely adopt, cieties to occasionally call the members of these iscussions. But in the line of experimenting, the work looks the more hopeful. At the late meeton read an excellent paper on the subjicat of Agricultural Experiments, and gave the following a
the svstem that had been adopted at Cirencester by the Chamber of Agriculture:
mental sub-committee of the Cirencester Chamber mental sulture, and our first results were communi
of Agriculture oated by me to the journal of the Royal Agricultut however, until the years $1873-4$ that the scheme
became in any sense mature, and there is still abundant rom for both inprovement and exten
sion. The plan which we adopt is as follows
and, this accomplished, tabulating and drawing up
of the report concludes our labors. In all our ex of the report concludes our labors. In all our ex
periments, we steadily keep in view the two principles of repetition and control. Repetition is se
cured first by insisting upon duplicate plots bein cured irst by insisting upon duplicate plots being precantion-and, secondly, by trying the same series on a number of farms, and through a succe
sion of seasons, an immense mass of confirmator sion of seasons, an immense mass of conder, In the same manner, contro
evidence is educed. is insured, as the experiments upon various farms bring our results which vary consiterabi,
save us from rushing to hasty conclusions.'
Now what we want, here, is a generally adopted system, on a similar basis. We suggest it as the work of our local agricultural boards and societies,
in connection with the state boards. Our agriculin counection with the strte boards. Our agricul-
tural colleges are doing something in this direction, and may easily do much more, but they are far apart, and their experiments will have little in
common; they will at best amount to but lacal helps.
If the agricultural societies cannot do this, then, siunot the franges find it more profitalle to turn chemez, and do a great aud lasting work for the canse of acriculture, - Prairie Farmer.



products, and the whole catalogue that goes to make up the American "Fair," should not be the entire aim and object of our agricultural boards, state district, county or township. These fair
are well enough in their way; have done an immense amount of good, and we would be the last to say aught derogatory to them.
It is time that American lize into something like an exact science. It it about as far removed from that now as it was fifty years ago. Every man is experimenting on his
own hook, very properly, of course, but there is no concentration of effort to demonstrate which of the many different practices with the same crops,
in the same neighborhood, is the better; that is, the most profitable. It seems certain that in agri. culture, except in a very general way, nothing but the differences above mentioned, are drouths, rains, winds, storms and frosts that the farmer must convalue ot his experiments. Of course these latter pre vail against associated experiments as well, but
it is a fact, that to local associated effort we mut each member of the chamber, embodying the
ecommendations of the committec, and asking or the co-operation of the members in carrying $\stackrel{*}{*}$
"It is of the utmost importance that uniformity of treatment should be secured throughout, and,
with that end in view, we undertake the whole with that enin in out the experimental plots, sowing
work of laying oun seed, and manuring the land. We also, in the the seed, and manuring the land. We also, in the
autumn, weigh the crops on every plot and all resutumn, weigh the crops on every prot, and are may
sults are forwarded to me, in order that they may
he tabulated and compared. For these purposes, be tabulated and compared. For these purposes, and undertaking the work of manuring and weigh-
ing, is required, and this is one of the most serious expenses to be incurred. In In our case, this man is in constant ordinary employment upon the college
farm, and we only pay him for the time during which we employ him.
sown, our work is farms have heen visited and sown, our work is finished, until November and
December, when a post-card, with a notice, is once more sent round, of the day fixed for weighing

Windsor Castle
This angraving reprosents a summer evening
scene at Windsor Castle-the home of Her Mowt Gracions Majesty Queen Victoria. The view is taken from the Eton sile of the Thames, at a point
selected by "our artist" (during his recen! visit to the old World) as presenting the most attrac tive combination of the royal edifice, water an
stately trees. And well has he succeeded in giv ing us a magnificent picture -and one so rich in historical and poetical interest. Windsor Castle
is associated with many interesting events in the is associated with many interesting events in the
history of England, and is a place which the ma history of England, and is a place which the ma
iority of tourists who visit Fagland desire to se Few sovereigns will ever ocelupy this regal res
lence who will command the heart-felt attachmen of the people to the extent that the present oue has done. The high destiny that she has been called nation-a nation tlat now includes within its purlieu a greater number of souls than that governe hy any potentate or ruler in the world. That she
may long be spared to preside over the British may long be spared to preside over the British
Dominions, is the sincere prayer of millions of sub.
jects of that kingdom upon which the sunnever sets.



nid autumn inonths of 1876, in Philatelphia. The power, and all necessary applances for driving her woods, mines, min rals, fisheries and soil, may viding for the reception and display of Agricultural presse, \&c.





The 新ors. Breedin

Exms - 1
The late Sir Tatton Sykes, no less than the pre
sent Duke of Reaufort and Sir Joseph Hawley have always held that wherever the elm tree grow breeding farm or station is to be found. It is notorious that elms thrive best in an limestone snil) drink water impregnated with lime have larger sand ; it is not difficult to to understand the partiality expressed by three experiencel breeders for
dows in which the umbrageous tree abounds.
But there was once an eminent sporting writer "" and who went so for as to maintain thartin the gale,
wild flowers in the helges ought to be closel scanned before the fortunes of a stad farm wer to be localized upon some given spot. That such
things as site, the lie of the land, the exposure to the morning, mid day or afternoon sum, the chemiCal analysis of the water, the density of the herb assigning to the breeder of thoroughbreds eithe success or failure, will at once he apparent to those who remark that upon some farms, carrying but
few heal of stock, more gool race horses are born than upon others which have ten times the number of brood mares. But, in addition to a close in-
vestigation of the natural peculiarities chat his stud farm presents, a breeder has much to learn Alhout judicious handling of his foals when they
are weaned from their dams, and of his yearlings are weaned from their dams, and of his yearingss
before they are brought to the hammer or sent into training.
We have lately had occasion in these columns of horse-racing is better adapted than the Esylish for developing stamina in the noble animal. Not without some degree of humiliation that our neighbors across the Channel understand the treatment of thoronghbred yearlings better than oursel ves,
ond that Yorkshire, "the cralle of the British thoroughbred,", might wo to school in Normandy, with $a$ view to learning how it is that the french aise finer colts and fillics year after year; and
why, during the last decade, the best threc-year why, during the last hecale, the hest corce-ycan
old on either side of the Chanel has for four, if not for tive ytars been it Gallice champion.
Furthermore, it is extremely rare for th youngsters of our neighbors to, lecome mulish or vicious; and it has heen commonly remarket at
Newmarket during the last half doven years that Count Lagrange's horses are always thoroughly
broken and conspicuous for what jockeys call "yool manners at the post." Nor can it be denied that, in addition to their superior staying powers
which our own horses are losing lyy reason of short spins and tive-furlong handicaps - the french
colte and fillies are usually well grown and fine specimens of the race. His ulservations of the French owners of thoroughll red stock has induced the most suceessful hreeder in thyland-
month -to take a leaf out of their book.
The system whinch Comut Lagrange has so suc-
cessfully followed in Normandy, of turning his cessfuny follo
foals, on the eve of their becoming yearlinus, into a large forest, and allowing them to run wild, has
heen imitated by the noble owner of Andred and Garterley Bell, it his pace in Cornwall. His
young thomenghlureds have a park of some sixxy acres placel at their disposal, in which they hind
more than sutficient "routs and vergo" to wander more than sumpecenter ground considered li,y the late Sir Tatton to he the greatest danger to which stud farm year after your, are exponect. It is com words, the yearlings raised at many specilativc
stud-farms in the neighlorlood of thi is metropolis
 poor chance whint they come, as rawe horses to woorn among the roomy me ulows of Lord Falnouth's other stud-farm at croworth, in Kent
 yea
De
hor Derby had an invincible repuggnance to training a
horse which he lad not himself brel, and although the most successful animal that he ever owned,
Canezou, wais raised by Mr. Allen, few breeders ever sent more good race horses into training than
the nolle statesman who once said that he would the noble statesman who once said that he woul
rather win the Derby than be Prime Minister.London 'telegraph.
The Morse Stock in New South Wales. We transfer to our columns, slightly abridged an article from the Official Report of the Chiet
spector of Stock for New South Wales. The efforts made there for the improvement of thi
nost valuable stock is worthy the careful consid erationi of our farmers who make the breeding o horses a part of their business. The horned stock
hould not engross our whole attention. We kould not engross there is not on the farm a more valuable know there than horse, or one to which we should bestow more attention, as there is none will bett bestow
repay ev.
behalf.
This
inf
This stock is reported as entirely free from any nfectious or contagious disease. . There appea
by the returns to be a considerable increase in the number of horses. Relatively to each other, thi numbers of the different breeds may se statell a
(say) one-sixth dranght, one sixth light harness (say) one-sixth dranght, one sixthe
and four sixths saddle. (with oully four exceptions) that the horse stock in
their districts is improving. 'This is being brou their districts is improving. This is being brought
about - st, ly keeping the horses in paddocks
2nd, by the destruction and sale of weedy mares 3rd, by the introduction of well- bred entries; an deal with this branch of my report under thes heads : 1. Depasturing in paddocks. This is step in the right direction. Nanageable as they ought
will never be so quiet or mat to le, nor can they be kept from coming into con which always infest open runs. 2. The culling and sale or destruction of weely mares. This also
is absolutely necessary.
Thousands of mares still allowed to breed, whose progeny, with the sires now availabee can drivem to market. The re
the expense of driving them to moter turn to the breeder is very little more than hal what cattle give; for it it generaly allowed that
one horse eats and destroys as much as two heal one horse eats and as much pasture as three cattie, while at present
rates cattle are fit for market a year earlier thau
horses. Of late years there have heen freguent importa and a cood many of the former introluced last yer ard a goor mash of the forllool. But hesides these we possess in the Sir Hercules (a conlonal-hre
sire), New Warrior and other fanilies, smule of the stontest and best strains in the worn
the drauglit stock are concernet, the horses which have lately been introluced have generally been
the risht Clydesdale breed, the best dranght horses for gen
 improvement must we comparatively slow, for the
mares to which thicese entires can be put are mostly light in the
thie knee.
There is a very great searcity of goold sires of the
light hanness and saddle horses of this breed. At any rate, with the exception of a very gnod horss
reintronluced by Mr. Woodhonse, of Monnt ( fileall, Camphelltown, from Tasmania, and another of the
same stamp imported by Mr. Rouse, of (iuntasame stamp hmparted ty hr. hase, on importer
wang, no entire of this stanp has leen
for several years, and pure-lred coaching mares for several years, and pure-liren conching marie
are even scarcer than the entires. To supply the Aemand for coaching and hight harness hanced. The thorough or well-bred blood horse is pat to
dramght mares, and the drayght horses ton light well-hered mares. The progeny is the orlinary
light harness horses of the present day, whichi taken as a class, are very far from heing the right
sort evel for work, aund so, far as good looks

 or nearty so, and as fair strength aud substance, and fair shapes are hell. Very few of them, bow
ever, are fit for the side of a carriage. In the

June, 1

light harness horse fit either fores the side of a car-
rage or for a dogcait or buggy. And if put to the smaller well-bred, or even the comparatively light
or weedy mares (of which we unfortunately have
tens of thousands) the proseny would be either a tens of thousauds) the progeny would be either it fair buggy horse or a good-sized hack. There
would, even with these sires, he still of course a good many comparatively low-pricel and worthless
animals bred from such mares as are now in the colony, but the proportion of low-pricell ones conld every year be loss and less
wounother horse whose introtuc
immense alvantage to the colony is the Norfolk
col. He stands from 15 hands sinches high, and
is what may be termed at thoroughbred col) His
heal and neck are all that coult be desirel, while is wid and neck are all that coult be desireil, while
heal
his exprossion ind inates curne his expressiow indicates conrage and duraminty;
his withers are ligh and well set hack; he is thick
at the heart, lorouit on the loins, aud well ribluch home: liss , narter one fuli ind round, and his arms
 and stout, while his pasterns are strong amil elas. tic; his style aul action as a trotter is superior $\begin{aligned} & \text { to } \\ & \text { that of auy other breal, and lisis sucell would be }\end{aligned}$ considered monler the arcrage if he could not trot
14 miles within the hour. Nout only would these dinect benefits acerne to our stuls lyy the impertat tion of the Cleveland, the Brunswick carriage
horse, on the Norfonk trotter, lout very great in direct alvantages would also, follow thinir intro-
dicition. Thas the next generation of our well-
lirell lirood mares would be considerally stouter,
 more romy and harger every way than hey now
are- more like what they were twenty years ago
and if a good tharonghlired coull lie put $t o$ them, anstead of the progeny heing as it now is, with
inch a sire, light and weely, it would in nine cases
sut such a sire, light and weedy, it would in inine case
ont of ten be a gool, servicealle, well-1, well, up
standing hack, or light-harness horse, with licnty standing hack, or
of style and spirit

## The Trotting Horse

The trotting horse has become a great favorite
with the public: on a account of his speed and won derinl pewers of endunance. They fint a reall sale at paying prices. They will contimue to 1 ,
raised as lones as they pay a motit on the cost proluction. It cost- hint little more to raise a coll return on the carital invested, or cost of prodic
tion. The improvement of the hreed of trotters the sulpect that most concerns the public and in
terestw the lreeder. terests the hreeler. How shall we breell them so
as to secure the troting action, and develop its the progeny would in most cases he a well bred
icht harness horse tit either for the side of a carstout, while his pasterns are strong and elas. nding hack, or light-harness horse, with plent
tyle sull spirit. gainst the byainedler; and chances is are still further
uncommon thing
o see some of the stock lrod in this what might be termed the sire's heall, the dan's eggs, the sire's straight cloddy shonlher, and the
ight middlle-piece of the lamn, with a gcueral coarseness all over, and neither style nor condur.
ance. The fact st, this cross is by far too sudden; e, the animals making it are a great deal tho
much unlike eash other to amalgamate properly iul their prog my. A.d it is to the fact of our breeiers being reduced to either of these alterratives,
or to that of breeding from mares the produce of or to that of breeding from mares the protuce of
this cross and a blood horse-when the produce al-
most always runs small and weedy, with most always runs small and weedy, with anything
but showy shapes or gool carriage- - that the treat scarcity of well-bred serviceable carriage and lowgy oaching horse or Cleveland bay ought to be intro-l duced from Fingland. In purchasing in England,
however, great care should be taken that the sorses selected are of the pure ctoaching blood, and
sprung from progenitors which lave for
 atimixture whatever. If this is not done, anture
stylish, and perhaps somewhat handsoner horse in some respects may be palmed off for the deve-
lind. I allude to a horse got from a lighteleanlegged mare by a thorough-bred sire. Horses lreid
in this way are conparatively useless for stud
pouses, for they are thelnselves tuit cross-lred, and here is no certainty that their progeny will he
like themselves-the certainty is rather that they will be unlike. Their use, therefore, only leads to,
disappont
 were putto gool-sized mares as nearly as possible of the same type as himself, the progeny as a rule
would be a fair coaching sixe, with good action aurl vond looks. If arcaing he were put to mares of the rood looks. If agaill he were put to mares of the
upstanding saddle or well. breel light harness type,


## ©orrespondence.

On Watering Fruit Trees. Sir,--The sulject of watering large fruit trees
has freguently been discussed, and different opinions expressed thereun. Probably the Dutch way of applying liquic manure would be foun ong and three inches in diameter, pointed with
ron, and a piece of wood nailed on one side to place the foot on. With this, holes about 12 or 1.
nches deep and about two feet apart, are made all cound the tree, just within the circumference of he outermost branches, and liquid manure poured iquid manure alone is used, but in dry weather it
s diluted with one half water. Care must b taken not to conmmence using the liquid manure ntil the fruit has acquired some size, the fall off. The use of the liquid manure must be discontinued as soon as the fruit begins to show signs of ma-
turity, so as not to injure the llavor. For young trees water alone would be sufficient, as liquid manure would cause too rapid a growth of wool,
which would probably not ripen properly, and be which would probe liable to be winter killed.
more
I would recomnend as a good way of watering
cabbace or canliflower plants, that a small sized cabbage or callifiower plants, that a small sized
flowe pot should be suak in the ground on the
north side of each plant, and filled with water, which will escape through the hole in the botton no faster than the earth can ta hand, a stout stick
small flower pots are not at her small flower pots are not and fo make four ur five holes round the plant, and pour the waier or liquid manure int
them, so that the roots will get the direct benefit them, so that and it will not be dried up by the
of the water, and
sun or the ground hecome baked hard, as in the usual way of watering them. I have found this a good way of apply ing lifuid manure to the hills
pole heans and also to vines, for which purpose 1 use soap
them.
For flowers a better way to prepare the liquid
 he droppings have settlend down, pour off the clear water, which will be fonnd equal to guano water. or window plants in towns, where fowls are not
kept, a tallespoonful of ammonia in a pint of water mny be used to water the plants iwiee a
week, but it sliould not be used till the flowe buld, are formed, or the leaves would grow so
buxiantly that no Howers would be the result. hixuriantly that no towers would we tho 1 have
To clear the vermin from house plants, I found no better way than to catch a few of the
mall brown snow birits which are common in the spring, and may be easily snared by placing a little
chatf au the amonst it. Let the hrids toose inn hews and wherch
they will naturally fly to the winlows on the plants, an is soon pick off every insect from
them, and when their mission is accomplished I give them their liberty again. Thave seen a diny
employ her pet canary for the same purpose, first expelling everything in the shape of a cat from the room, anct then openim the plants for an hour or two every day, when the insects will son be exterpeeping under the geranium or rose leaves, and seemingly er
afford linut.

Stocking a Farm with Horses.
Sir,--A gentleman living somewhere on the
border hetween England and Scotland writes and asks me how I think it womld payting a pig or two in the stock line but horses, excepting a pig or ot
and some fowls
told hinu that I was not in favor of specialties for general farming, although
many had done well by it, but many lad also been many had done well hy it, but many had also been
ruinel by it. I told him that if he calculated to come to (anala to farm, that he hal letter do as
he saw other people doing for the first two or he is, coly he has says he pay is doing very hery went, whind it
is not convenient for him to rent as much as he wishes. His idea is to get about three hundree
acres of cleared land if he comes to Canada. This is the way he proposes to do if the comes out nex
spring, and gets a suitable situation: He will buy
two span of working horses to manage the farm
with, and then as soon as it is time for colts to be with, and then as soon ase six of the best colts for
weaned, he will purchase sit making heavy farm horses that he can find; the
next year he will buy six more, and the third also, when he will have eighteen; the fourth year ho will have the first three span thoroughly broke th all sorts of farm wo He says for the last ten years he has sold and bought and broke in horses in this way both for himself and others. He says there is no asto talty any to a fair; he advertises and people soon find out that such are to be sold yearly. He wishes to
know if any such method of farming in Canada is know if any such methol of farming in Canada is
carried on in a large scale. I told him I did not
and know whether auything of the kind was practised
here here or not, bu' if I was informed that he would
be likely to be successful, I would let him know about it.
There is oune thing I am aware of. It would be
a benefit to farmers if there was a farm of this kind a benefit to farmersioug the country. A farmer
here and there through would have a chance to get a horse or a team withIf you or any of your readers would pass your If you or any of your read.
opinion on stocking a farm in this way, you would much oblige A SUBSCR1
and Co., Ont.
[We do not know any Canadian farmers whose specialty is the feeding of young horses, as your
friend proposes, but we do not know but that he frienht be successful in the business. Good horses and none but good horses, bring good prices, and would pay a man for labor, expense and care Some have been very well paid for raising horses, but on a small scale. Your advice to your frien was, we think, the very best-that he should for who know the country, its soil and climate, and farm as they do. If any of our readers in any art of the Dominion would offer any suggestions on the subject, we
writing to us.-Eo.]

Guide to Ganadian Farming
Sit,- I have very recently become a subscriber to the Farmer's Anvocate in the hope that I may
find in it what to my mind appears to be a great tind in it what to my mind appears
want. 1 refer to a guide to Canadian farming. It
and seems strange to a tresh arrival that in a country
where but a small minority of the population are Where but a smand minority of the population all good guide to husbandry exists.
In Eayland, where it is no nncommon thing for
men to live on the farm on which their fathers and men to live on the farm on which their fathers and
graunffathers lived and died, a work on husbandry is mot needed; yet guides abound, from "British
Firming," by Wilson, do vn to "Pigs and How to Farning,", by Wilson, ',
Feed Them," price 6d.
The other colonies of the British Empire do no
neglect this important matter. An intending emi neglect this important matter. An intending emi-
yrant can by applymy to the respective a agents for grant can, by appyly
Queensland, Natal,
de., obtain at a small cost a realy useful book on the each colony
Without going deeper into our deficiencies, could
you, Mr. Editor, do anything to suplly this great you, Mr. Eator, do anything to supply this grea
want? A series of short articles on the various
lands lands open for settlement, with a description of
their physical appearances, \&c.; the best plan for their physical appearances, cr.; the best plan
a farm homesteal, how to treat swamps so that they " may b'osso u as a rose," a short way with stumps, the best position for anl orchard, and a
hundred other kindrel suljects would greatly in terest your realers.
With my lest wishes for the success of the Ad-
Minthor. C. Robson.
Minden, March 26th, '75.
[Mr. Robson will see in the reply to enfuiry of a sulscriber, in the Anvocates proselus the only brief account of the rree mas amon for settle. information on the "resent accessible to us. Short articles on subjects as suggested by Mr. R., have occasionally appeared in our journal, as we consider the supplying all who are interested in agricultare withevery useful information on subjects con-
nected with the farm, the duty of an agricultural journalist. We do not know any work on the practice of our great aim has been to make our journal supply such a want by giving plain prac tical articles on topics interesting and useful to the farmer, whether from the old country or to th manner born. Would Mr. R. aid us in the goo work by writing to the Adv
perience in farming ?-ED.]

## Canadian Plows.

Sir,-Allow me to call your attention to the following facts. While reapers, mowers, threshing
machines, seed drills and cultivators have been largely imported from Ontario, and hold their own
with the same articles imported from the United with the same articles imported from the United
States, plows imported from Ontario have been complete failures; the best that has been lrought in is not worth more than the price of old iron. I
am certain the Ontario manufacturer is capable of making as good a plow as the American, and only requires his attention to be called to the matter The fact is, this Province requires quite a differen
kind of plow from that used in Ontario. The American plows work well, both breaking an
cross-plowing, but would, think, be a litt'e im-cross-plowing, but would, I think, be a hitte in-
proved by being made a little heavier and stronger.
I have been much annoyed by seeing thousands of proved be ben meh annoyed by seeing thousands of
I have been
dollars every year going to the states that ought to go to Ontario.
Will you kindly answer the following queries Can bees be sent from Ontario. if so, how, and at what cost? Can the eggs of domestic towls be
sent here; if so, how, anl at what cost, if pro sent here, if so, how, and at what cost, if pro
perly packed, and, what probalility of latehing
after their coming? after their coming
We have had a very fiuc winter. There has
been more steady cold weather than usual, but searcely any storms. We have had 12 to to 1.5 inches
of snow, just enough to make good sleighin. The of sow, just enough to make good sleighing. The
snow was all about gone on the 1 st of $A_{\text {Priil }}$, and snow was all about gone on the 1st of April, and
some commenced to sow. Sowing is now pro-
gressing rapidly (A pril 14.)

Winnipeg, April 14th, 1875.
About Fences and Cattle.
SIR,-The following article I copied from an American aqricultural paper, and I think it worthy
of repuldishing in the Alvocste. I would remind our Provincial Levislatare in every issue of your
paper of the necessity of putting a stop to cottle miming at large.
Fencing has become one of the most important considerations demanding the attention of farmess;
and it it wonderful that thy $y$ should so
ming suln spective provinces, which would relieve them from
 seems to exist, that pullic ruals are pulic pro-
perty, and the grass which trows upon them is the common property of all the inlalit:nts, upul
which their cattle may be turned to prasture. This is a great mistake, and me which reyuires immediate correction, if for no other reason than that it
is a very expensive one to farmers.
Pulhic roads is a very expensive one to farmers. Puly ic or oads
are, to be eure, pulhic property, but only for spe
cial purposes. While the pulitic have the right to pass and repass over them, they have no othe
right than this, which the law gives them, and $n$ more substant:al claim to pasture their cattle upon
the road than-u pon the other side of the fence in the road than- upon the other side of the fence in
their neighbar's field. The law allows the public their neighbor's field. The law allows the public
to use the land occupied by the roal to travel over and whenever they cease, either ly operation law or otherwise, to use
again becomes the property of the owner of the the
farm through which it passes. He has the f. simple right. It is unjust that he whun owns no
land, or, owning it, prefers to uise that of hii
 wrong. it is the duty of the Legishan of a the thickly setted parts of the provicultural interests of the country b,
teroviding that cattle shatl not run at large, bu providing that cattle shal no roul at arge, upon the highway to depredate upon the posses sions of his neighbor. Money expended in fencin
against these depredations of strange cattle against these depredations of strange cattle
sometimes disbursed so gradually that the farm
does not actually realize how great is the loss.

The Colorado Potato Bug Sir,-As preventative is better than cure, 1 will Sive you my plan for treating the potato bug,
which has proved effectual for the past two years. In the first place, have the ground you intend where potatoes have been grown the year previous. Select soome variety that matures rapidly, such as
he Early Rose, and plant them as late in June as he Early Rose, and plant them as late in June as
ou dare venture, so they will be nearly ripe beyou dare venture, so they will be nearly ripe be-
fore the frst frost (which varies acording to lo-
cality) : but they should not be planted earlier cality); but they should not be planted earliee
than the 12th of June. Before the potatoes have hown themselves above the ground, the bugs have generation not being as enterprising as the first,
emain in one place, and the late planted potatoes emain in one place, and the late plaive the advan-
escape. The late oness will also rece.
tage ot the rains in the latter part of the summer tage of the rains in the latter part of the summer,

and consequently grow larger than those that ripen | arlier. |
| :--- |
| Could |

Could you or some of your subscribers give any Caniftrmedy for the apple tree borer ? Canifon, April, 1875
[In giving the above from a subscriber (J. B. B. no not recommend it. We have his authority, but no practical proof of it ourselves. It requires fur-
ther trial and in different localities, before it can be accepted as a safe gnard against our destructive Colorado enemy. It is at least worth a trial.-ED.]

## Warning.

Sir,-We had a traveller here last fall selling patents for a wonderful harrow-a harrow that
would cultivate potatoes and dig them, and not a potato would remain in the ground. He sol, 1
 Iry, London. I enclose you a pattern
row, which works with clevise at joints.

Ross, April 23rd, 1875.
[We have euruired at the Foundry, and find that
Drchard Grass-Manure. Sir,--I wrote to you the hegiuming of this year
asking one or two cucstions interesting to me as asking one or two fucstions haderot the courtesy to
farmer, and 1 an soryy you had not take any notice of them. 1 should not have
hothercil you, hal you not mentioned your column were open to queries. When at home the Marll L, (rme always was good enough to afford me any in furmation. I have bonght tion acres in this lack
township and am clearing it by degrees, intending to make a slicep farm of it, and I must say, 1 hav picked up a good deal of valuable information fron
your pajuer which I have taken for the last thre
 wheat 1 received from you last fall. The former
is killed out by the lite frosts., far worse than the latter. I am uniny to try the Mrelaril Gras
shertiy, in Englinal it succeecels very well. What
ismy best course to pursue with is my best course to pursue with a large heap ",
manure outside my stable, which has been collec mallure outside my stanhe, which has beech conce away and piling it in a high heap somewhere to be
realy for the fall, but the land hardly reyuires it as I have only had one crop yoff, and it is seele
down.
Apsley April 26th 75.
We regret Mr. Wright's disappointment from his letter came to hand or not, or whether havin been received, it escaped our notice in the great number of letters of our daily receipts we are un-
able to siys. Any seming negleet we wonld as sure our subseribers would certainly be unde The Orhard Girass is but lately introluced int
this country
bielleving it is of great aulvantage this comntry. Bechering it is of great andantage th
the farmer's here as it has been in the Homu the fanmers sere as it has heen in the
country, we improrted some seed this season. way than, would be a gooll crevit in the fank bank
Gugland,
If it be a crops (roots or cereals liet it be used for top dressiug,
Land cannot be too highly manured. Well pre pared manure will nourish the young yrass plants.
The fields will prodnce more grass, and whether in grass or afterwards in tillage, will be sure to pay for manure and labor

A Subject for Orchard Owners. Sir, -The thought occurred to me some years since, that if there were places for the blue bird to there and relieve the orchard of many of the caterpillars that 'are so annoying. I therefore took 4
pieces of board about 10 inches long, 1 three inches wide, two 4 inches wide, and one 5 inches wide, form a pitch for a rorof, then ceta a hole in the high
side for the bird to go in, then stuft a bit of hat side for the bird to go in, then stouff a bit of hay
alout half way down, then nail on a bit of shingle about half way down, then nail on a bit of shingle
for a roof, then get a pole a bout 10 feet long,
sharpen the end and punch it into the ground sharpen the end and puach it into the ground
about two feet, then put the other end into your
bird house about half way np and nail it fast and set it up.
I tried the experiment a few years since and had
not got the house up an hour when a blue birl not got the house up an hour when a blue bird
took possession, and you would wonder to see how pleased it was to find such a nice place; it raised two nests of young birds that summer one noon spell; and they made 22 trips from the apple trees to their nest with worms for their young
ones, in that time it was very rratifying to see how ones, in that time it was very gratifying to see how
diligently they searched among the leaves for food for their young ones.
I have put up others since, and I find them very
useful, as they save many apples from being de useful, as they save many apples from being de
stroyed by worms, and if they done nothing but
furnish us witl music they pay well for the troubl furnish us witl music.they pay well for the trouble
they cost us. Some persons might think that one they cost us. Some persons might think that one
house with several apartments will do a lot of them, hut they are apt to quarrel, one pair in one place, but keep their houses a roil or two apart.
Last fall two old birds with about ten you Last fall two old birds with about ten young ones
or what they had raised list summer, caine and had a look at their old nest before going south.
It will be necessary to nail on $a$ hit of bord It will be necessary to nail on a hit of hoard in Sarnia, March 16th, 1875.
'We give insertion to Mr. Hoskins' communication with great pleas:re. We are always pleased to aid in any way the encouragement and- protection of our friends the birds. From infancy we havelook ed upon them as delightful companions, and we have heen taught ly experience that they are among the to find thet many act on Mr. H's suggestions, and provide a home for the little songsters while at the time engaging their valuable services in the protection of their fruit. Encouraging birls nestle about our houses and gardens is one of the means to make a cheerful happy home.

## Garden Hedges.

One of the many difficulties that a arilener has
o contend againust is to screen his arounds from the cutting wintry blasts. A keen January northeaster coming across a large expranse of open coun-
try on to a plantation of conifers and shrubs, will ot only cause them to present a miseralle appear-
ance, but often so injure them that they will look as if they had passeil through a severe fire. When grounds are placed in this sposition, there is nothing Scotch and Spruce Fir
posed, hellges will be found to be sufficient to stem the cold winds. The eardener should be careful to have henges in keepling with his grounds. There thoru hedge near a a girden hedge, for, although a "reat deal of sentiment is written about the in keeping with the farmer's field than the garhencr's domain. It is very frequent that in large crumis hedyes have to be mate to hide an ancarden. Then, if the position is not too much exposed, there is mothing more suitalle than the
(celvers derolura. This, planted in some good fat loam, at convenient distances apart, will not fail to give satisfaction. For the first year or two they can be allowed to grow reely, and then when they
have begun to close toward each other, there ont side branches should be carefully pruned so as to allow them to grow upwards and expand into a
thick and shapely hellqe. The only other juniper that really makes gquil hedges is $J$. viryinide, commonly called the "red cedar."-Gardener's Maga-
mine.

Written for the
Sir, - In th
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## PRIZE ESSAY.

## pplication of manure.

Written for the Farners' Advocats. Sir, -In the February number of the Advocare
you invite discussion on the proper time for applying barn-yard manure. Without preface, allow
me to commune with you a short tine on the subject.
subject.
In giving you my opinion, I would say that it is
anmost impossible to lay down any definite rule, as almost mpossible to lay down any definite rule, as
the climate and soils are so varied that a great deal will depend on the farmer's own judgment, and likewise the different ropse is not a doubt on my mind but it is the true principle for all light soils; but on strong, heavy clays, thenink
With respect to the proper time for applying,
for all root crops my experience is fall manuring, for all root crops my experience is fall manuring,
and dif you cannut have a sufficient supply and have to use what manure is made in winter, 1 would say
that the best way is to haul out as you make it on to a pile in the field, and apply as soon as possible
in the spring, so that the dung becomes thoroughly in the spring, so that the dung becomes thoroughly ings the land reguires in preparing it for the recep-
tiou of the seed; although 1 have seen very god
results frem having the land plowed in the fall and trou of the seed, although have seen very ghon
results frem having the land plowed in the fall and
the dung spread on during the winter months the dung spread on during the winter monthis,
fresh from the stable but, bear in mind, this dung was made from cattle that were fed on roots,
pea meal and oil cake. The prectice of applying long unfermented manure for roots in thie month of June is an injury (unless you have a very weal
season), because it has a tendency to hold the soil up, making it licht, and the scorching sun dries all
the moisture out of the ground, which should be preserved for the germination of the secds. Thave
some years had to follow this latter plan, when not haviny a full supply to go orer the hield in the fall or heavy iron roller lefore putting the seed on. I may say that 1 have tried all the different modes of applying manure for root crops, and have com
to the conclusion that the very best of all is to plow the land in the fall, and as soon as the ground acre, and let it lay until the spring, and then give it the full amount of working to bring it to the proper seed, cither mangel wurzel or turnips, and attend to them in proper season, your root crop
will be satisfactory, your after crop of grain will be remuneraine, and iill likewise be good.
seed, your hay crop In speaking of the following crop of grain, I
have never seen any difference between the fall manuring aud that which was done in the sprime one part of the field becing equally as good as the
other, although the root crop was clearly the bes other, although the root crop, was clearly the be
ou the part that was manured in the fall with regard to the proper time of applying man ure to other crops, my expericuce has been some mer fallowing for fall wheat was practised to : hargo extent. The best results was from green month of June at the rate of 2.5 loads to the acre and about 20 loads of leached ashes added; being Cor hauling. By applyiug manure unfermented to $a$ strong retentive clay, it has a tendency to keep air and sum, which is of the greatest benefit to When you say
at the head of all mauures, I fully culdorse the sentiment. I iook upon it as a periect manure. draw from it, if properly attended to, all the fer-
tiliziny constituents favorable to the luxuri tilizing constituents
growth of avorable to the luxurian
Experience thas taughit us growt we have everything within our own means,
thathout expending one dollar on any artificial
without without expending one dollar on any artincial
manure, except salt and plaster. Artificial man-
ures are not alated to the wants of the Canalian farmer, hecause of the extreme iryness and short-
ness of the season; and perlians from the time of ness of the scason; and perla, 's from the time of
their application to the gathering in of the crops, we don't have one single shower of rain, and theretore the returns do not pernit of the oathay, ever well they may do in the moist climates the did countrics. Not so with salt. I would say to
eiveryone-if he cultivates not more than a garden 1lot-use salt either as a top-dressing or incor-
porated with the soil. I Inave seen the good effects of it on wheat, barley and oats, and especially have

I seen the advantage of it on the
when put on with an unsparing hand
In the case of In the case of grass or or meadow lands, locality
and nature of soil will again be brought into and nature of soil will again be brought into ques-
tion; if a light soil, compost and spread evenly on tion; if a light soil, compost and spread eventy on
the surface in the fall. In the month of April brush-harrow; this operation will regulate any
large lumps. The rootlets of the erass will find large lumps. The rootlets of the grass will tind
the speedy effects, and a genial warrth will ma-
terially advance vegetation in the spring. terially alvance vegetation in the spring. I wonld wish it to be understood that the same rule will not give the same results in all localities,
but as a genieral thing the fall is the best time to apply manure, and the best mode is to keep it on the surface. Depend upon it, you will get
quicker and a more satisfactory return. Josepa Klrby, (Guelph.

## EOnttry allard.

Amateur Poultry Keceping. The following useful hints are condensed from At this season, more than at any other time, the poultry about our houses will repay the honse
keeper for every iitle scraps she can spare, and
fer and for some thought and attention given to their
wants aud desires. We constantly hear that eyg are so scarce it is impossible to get fresh ones Only a little management and little forethought,
and all might have them. Our own experience is is follows:
We have
Wultry. The soil is bad for then, beeng cold wet Clay, and try sand or chawls ouvd suit all poultry
teu times better. Our fowls have a steep corner, very few syuare yards for each bird being all the to be thought of and met by their mistress. A
very tiny scrap of garden for vegetables is not cinugh to give refuse all the year round for thei them. Fresh, green, raw vegetalles are far better than any cooked, though these bits, if left on the access to sufficient grass for them to graze on must
have a supply of green food to do well. Every crap trom the house the fow1s look over, and eat game (for they liave no cannibal scruples), and every little bit of fat that can be spared; and if fom the butcher one pound of skinny fat thrown ,y for the chandler's use, and give 5d. for it; this will oiled meat and the grease cleaned from the dripset the tirst thing every morning, aud they have
two feeds in the day besides of mixed corn larley aul wheat, which is now cheap; and they never have more than they eat at once, except in
the sumner, when the fowls are uip houra before the suminer, when the fowls are up hours betore
the inmates of the house then there is a little
nore given at might for them to tind and feed scatter as wide as possithe to spread the grain over the space allotted th the poultry.
The corn and meal costs now,
sible, 2s. 3d. a weck, never more. We have six lets of 1574; these were hatched in Felluary yuld Narch; six are half-lbred Cochins, from a pure
Cochin coock and large French hens; three are halfhred ame from a pure Came coock and the same
kind of hens; and one is a lipht Brahma, ant one a
 ing our egg brought in, offered 2td. each for them.
He kecps inore than 40 fowls, and tells us he has not had an egg for more than six wevs, , but he ex-
pects sone every day! and wonlers at our good
 cher, who has a yard and green fields for then to
stray over, told us yestenday, out of 60 or 70 hens
hie could nut reckon on one egg every day now. But why cannot all have a ohoo supply, ford
conlid if they would hestuw the care and fore
thunght which, wifortuately at pesent, are not considered, worthy to recive from any
housuhold, if they dil, of cuorse oure narket for
 place, the kind most suitets are selectel and kep,t, they will begin to lay in September, or six or seven months old,
reckoning from February to March. But spring
ehickens are so nice, and so dear to buy, and elhickens are so nice, and so dear to buy, and
every housekeeper has sometimes calls for a dainty
dish, and so the sprin dish, and so the spring chicken and asparagus are
eaten and enjoyed in May or June and the eaten and enjoyed in May or June, and the pros-
pect of eggs fresh and good daily through the pect of eqgs tresh and good
autunn is in jeopardy thereby.
For the assistance of housekeeping it is worth
while to consider this well and so supply the neels of While to consider this well ands so supply the neents of
the fowls about our doors; ;if you keep them haphazard, to feed as they can catch it, and all is guarded to hem, most likely you will keep them
weeks or months at this season without their re turning you anegg, like our neighbors the poulterer, the fishononger, and the butcher, the retuse from
whose trades must supply valuable additions to the whose trades must supply valuable additions to th th
foowls. But the little things are not thought of; and this it is after all which secures success hey must have warm shelter in their roosting in, with dry ashes frequently thrown there; clean,
good water three times daily given fresh, the same good water three times daily given fresh, the same
we drink ourselves; plenty of grit, road scrapings we drink ourselves; plenty of grit road seap and
and old morter rubbish put every few weeks and
broken up three or four times in that time for them broken up three or four times in that thime for them
to get at fresh bits. All this we have to do, as to get at fresh bits. All this we have to do, as
there is nothing in our soil useful to them. All
these little things we find needful to ensure suc. these little things we find needful to ensure suc-
cess, and does not take half an hour a day, and, cess, and it does not take half an hour a day, and,
if you love your birds, it is a great enjoyment to see then well and prosperoun, and you will find
shem among your best friends; your poultry will show your practically, by filling your poultry win egg basket,
fill
hat they, too, know that "one yood turn deserves that they,
another."

At liirth the pig has the temporary tusks and the corner incisors well up. These teeth are very
ne and sharp, alnost like fine needles, and occupy position ou each side the mouth, leaving a clear place in front. In a month to six weeks the cenletion of the second month the lateral incisors are cit, and the animal has its full set of temporary teeth, including three molars on each side, top and
bottom, six incisors, top and bottom, and a tusk on each side, top and bottom. At the age of six ween the first temporary molar and the tusk, are cut, and also a permanent molar, which is fourth in situation. The premolars are not always pre-
sent, and in their absence the tourth molar will be accepted as an indication of the age of six months.
At nime months the permanent tusks are cut and At nine months the permanent tusk are cut, and
the corner permanent incisors, which often prick the corner permanent incisors, which ortent prick
through the gum soon after seven months, are airly up. At one year old the central permanent
arisors take the place of the temporary teeth, and ucisors take the palace of position.
the fifth molar is also in pol
Many pigs at the age of twelve montlis retain with no instances of the permanent centrals being in their place before the full age of a year ; hence whicl of these teeth being well up in an animal a ground of disqualification. At fifteen months the three anterior molars are permanent, and they ance and ly the absence ot any signs of wear. At ,ighteen months the permanent dentition of the pand also the external permanent incisors.
After this perion it is seldom necessary to define anforded ly the growth and wear of the teeth sui-
and afforuety yact to enalle the examiner to form a
ticiently exal
positive opinion. $L$ Lonton Ayr. Gazette.

The Sherbrooke Gurete gives a detailed account
of the operations of the Canadian Meat and Produce Company, and confesses astonishment "at the amount of work done, and the evident extent
null magnitule of the business that will be carried on when once the Company is fairly in operation.

 meat; sol hides, and large "uantities of poultry,
yane, \&.c. The works seem to be exceedingly


 ing townslipg have begun to realize the advantage
resulting from the location in their midst of a re gular and remunerative cash market for their beef cattle, pork, poultry, \&c.
(G)ardew, (1) rcluadd and forest

Cabbazes as Grown in the London
Market Gardens.
What is called the Enfield cabbage is that which
is used in the market gardens about London. It is one of the oldest in cultivation, and one of the best,
and as growers of it generally save their own seed, and as growers of it generally save their own seed,
they take particular care that their plants of fire
not crossed with other sorts. The sowing for the nor crosse crop of this cabbage is generally made o St. James' Day, the 25th of July, or some time be
tween that and the middle of August, and if the sowing he made on por ground, so much the bet ter, as in that case the plants come up stocky an
hardy, and stand the winter well, whereas, if mad on rich ground, a soft rank growth is producel,
which is much more easily injured. This sowing is, as a rule, made in four feet wide beds, a wilth
found to be convenient for weeding and hoein amongst the plants. By the time the latter are
sufficiently strong to be transplanted the potato sufficiently strong oady for the reception of a firs onion ground is ready for the reception of a first
batch of them, and on that cleared for celery French
beans or vegetable marrows, another plantation is beans or vegetable marrows, ano ther patitation
generally made. Every empty space under fruit trees or elsewhere is also plantel with cabbages
In planting, the ground is lined off into rows twenty-five inches apart, and in these the plant
are put in fifteen inches asunder. Between ever are puw ifst planted another is now put in with
two row firl
less care, thus making the plants stand fifteen inches apart each way. Early in spring every
alternate line of plants, and also every other plant alternate line of plants, and also every other plant
in the line of rows left, are lifted and sold as coleworts, i. e., young open caby ages, a state in which
they are preferred by many to such as are heartel. This allows the permanent crop plenty of room to come to maturity. With a view to subsequent
plantations, which are made all through the winter wherever ground is vacant, the young plants in wherever beds are removerl and pricked out into others
seed bee
a little further apart, in order to kep them in a little further apart, in order to keep them in
gool condition for planting out as long as possible. goot condition for planting out ase plants are kept
In this way, indeed, many of the
till till spring, when they are transplanted to succeed those planted out in autumn, and to come in he-
fore the produce of the spring sowings, male late
in February or early in March, to furnish cabbages from June to Augyst. The plants from this sowing
are put out in rows two or two and a half feet apart, and in the intervening spaces are put lines
af lettuce, a plant of which is also set between of lettuce, a ${ }^{\circ}$ plant of which is also set between
every calbbage in the row. If thought necessary,
another sowing is male in the end of March, or April; and sometimes a bet is sown in May, when
what are called rosette coleworts are sown. As what are called rosette coleworts are sown. As
the latter are, however, chiefy
autumn and winter for late supplies, cabbages are seldom suwn after March. Morcoocr, when pense, French
sown
beans, and yegetable marrows are int there is little demand for cabbages. Red cabbages are sown in March or on St. James' Day, and the plants stand about three feet asunder in the rows. As this crol
stands until the heals are large aud solid, a piece stands untint is deevoted to it, and inter-cropped
of righ laul
with potatoes, ordinary cabhages, lettuces, French beans, or other vegetalles of that kind. The pro
duce of the July sowing is generally considerer better than that of spring.

The Fruit Crop.

 ports are summarized as follows:- Early cherrics,
nearly all killed; late cherries, int little injurel;
strawberries, ill rictht, with strawberries, all right, with prospects of an average
crop; hlackbervies sufferel from the severe winter and albout 50 per cent. of the canes are winter
killed; early apples, poor prospect; late, prospect killed, early apples, por, prospect; late, prospect
favoralle; pears are injurel, lint we cannut, say t
what extent. The members report a few saiter

 almost all cases. In the (hicagy Times, of the
Sth, we find the following as a sheceial telegraun:-
J. P. Thomplson, secretary of the Michigan state Pomological Qociety, a gentlenan who has spent
some time in collecting the facts in reysirl tw the
 lowing facts:- Strawierries, of which there is
large area plantel, will be a full crop, although
late in the market, the slow bive
them from the cold weather of the winter. Rasp-
berries and blackberries, especeilly the most
hardy varieties, aud also those growing in the hardy varieties, and also those growing in the
woods, will produce fairly, probably a mellium crop. Cherries of the tendererest varieties rarietie
have had their buds badly injured, hut those Iorello stock are looking well, and a half crop may
 Wee a half crop, all the vines below the snow-line Ine, especially on the Concor ard And Clinton, leing
in good condition. Apples ane inure to a great grood condition. Apples are injured to a gread
extent, and only a very small crop will be gathered.
The trees are looking well, however, and lave no The trees are looking well, however, and have not
suffered material injury. Peaches will be a total ailure, the buds being all killed, and many of the
reees severely injured, being frozen back to the snow-line. Young trees generally will recover, and

## Farmers' Gardens.

To those who have no experience of gardening it
a formidable undertaking to begin one; but eality the whole matter is comparatively simpl nd easy. We shall suppose that we are aatireser
ng a family who cannot afford to hire a gardener who have no experience themselves, and liave ouly a small amount to lay out upon a garden in alditio
to the labor and attention of the ladies of the family, The finst thing is to select say half an acre of ood ground as near the homesteal as may be, and
if possible adjoining the east or south end or side possible adjoining the east or south end or side
of the house. Let this spot, which slould be dry
naturally or drained artificially, be plowed and cross-plowed three or fortificially, be plowed and tines, and then get a
then rich supply of rotten manure spread evenly over it
and lightly plowed in, finishing by a thorough brushing or harrowing. Let this garilen-ground he
well fencel, and have a gate that will shut of itself well fencec, and have yate that wo or shatep of from
by a weight, so as op prevent cattle or she
cetting in the walks, bor yers and beds can be laid out according to taste
lind and the work of planting and sowing may
menced with a prospect of excellent results.
The next thing is to get a supply of fruit trees,
say a half dozen each-ayples, pears and clerries,
half of the pears beiny dwarfs to bear half of the pears being dwarfs to bear early, and
half of the cherries Morellos. A dozen each of white, red and liniack raspberries, and half a dozen
blacklerries, and half a dozen each of white, red blacklberries, and half a dozen each of white, ree
and hlack currants, will make nice bells of these
tine fruits fine fruits; and a hundred strawlerry plants (halt
of them Wilson's seedling will soon multiply t any extent. The whole of these from a tirst-rat nursery, with packing and carriage, should not cost
over ${ }^{2} 20$, and a antficient supply of tlower and gar
den seeds, should be had, including postage, fol about $\$ 3$ a spanc, rake and hoe will cost, say $\$ 2$
more, makiny au investunent of $\$ 25$, besides thi
 charged to the garden, which should le creelited at
market prices with all fruit and vegetalles used lyy
the fanily, the flowers leeiny thrown into the lai ge fanily, the flowers leing thrown into the hat
gain. In this way it would prolahly clear itsel
the first year, and every suceceding year yiel

## more Tl sume

 The fruit trees and bushes should be got fromsune nursery of a high claracter-other things
being enual, from the nearest. The seel being eypal, from the nearest. The
ordered from any first class seedsman. Such a garlen as we have described would an,
much more than its cost to the value of tlre farm, as well as the pleassure and comfort of the family,
and the necessary labor comnectel with it would and the necessary labor comink
not he heavy.-N. Y. Withess.
The Cabbage Pest and its Parasite
 country about Itivicor'sur, appearingy first in canala,
from whence it has spreal over the greater part on Trom whence it has spreal orer the greater part of
the United States. At first it appeareal ton have on
natural concmy to keep it in check,

 appeared in the sulnurls of New Sork City at alwnut
the same time, and their "perations ran sonnewhiat
 the entire cerph. ln the antumn of this seconnd iseal
son nearly every chrysilid, or at least the lins
part examined, contained the pupa of the little
parasitic fly referred to aloco, instead of an imparasitic fly referred to alove, instead of an im-
mature buttertly; the result, as might be inferrell, was erer f few calhage worns the third season, and
warcely any since. Tlis seems to have been about scarcely any since. This seems to have been about
the general resilts in caull locality visited by this the general resitss in cirli, and all applications of
species of cabluge conttrily
and poisons to the worns
pening the number.
of course if the 1 arasite does not appear in any
narticular locality, they can le realily procured and forwarded to any distance and let loonse where they would do most goon in attackint where there anemy or fool, as they cann onfy cilise wrowers will examine the chrysidicl of the last season's brood of
worms, which must at this time be abundant on Worms, which must at athe sings, fences, and even stems
the siles of outhild of shrubs and trees, thicy can realily determine
whether the little parasite (P'eromalus, puparum)

 the worms and frient of the farmer has arriven,
hot if nothing but the innature, half formed but-
terty is within, then it is sufe to conclute the terfly is within, then it is safe to conclule that you
may have to wait for deliverance from this pest may lave to
another year.
Much can be
Much can be dome towards lessening the number
of worms ly gatlering and destroving the chrysi lids found attached to fences anll huildings about
the place in winter. But $I$ would not ailvise destroying those if the pupa if parasites are found in any considerable number. The difficulty is killing
the worms whun uyou the calhaves is, that any the worms when upon the callages is, that any
poisonous sulstance applied is likely to make them poisonons sthot, else very filthy. Guano, or super-
dangerous fool, ehore
phosphate and lime mixel together, will destroy phosphate and lime mixer together, will destroy
the worms; but who womld wait to eat, or feed to
stock such stuff, as wore or less will remail stock, such stuff, as more (ir less will. remain
among the leave and inclosel in the heal. I have
usel nsen salt with grool effect, hut the worms that have
penetrated intor the heal of the cablage is safe
 circumstances I would say, Let nature take its
course, for the little parasite will soon wipe out the

A Year's dirape Experience.
The (iermantown Tr trytr cplh, under this heal,
discusses the botanical aull entomological phases of discusses the
grape culture thus :
When the entomologists amounced that they
haid discovered the truth of the grape trouble, and had discovered the truth of the grape trouble, and
that it was an insect feedins on the pary at ouce arosec, which was , quite sure that the
phyloxera hail very little. if anything to do with phyloxera hall very little. if anything to do wit
it. It was mildew and mould, and not an insect a botanical, not an entomological study. It is no to be wonderen at that these ratical differenct
should exist. There can he no doubt in the world hut that those who have studied fungoid diseaigin
of plants, and lhave advocated the fungoid origil of grape disorders, have proved their point by in
contestable evidence. it is eyually true of the contestabls evidence. 1 it is equally true of the
root-insect idea.
Here are the insects, and there are the rotten roots in myriads as the consequence, and every child knows a rine cannot do well when half its roots are destroyed.
editor to do who has no theory to advocate, but whose business it is to direct the judgment of the eader according to all the facts in hand? He can
renly say that no one thin! causes disease; at least there are many things which will cause disease, sometimes, perlapss, existing together, so that one Itpends upon the other; at other times each acting
independently, and as some of our friends expressively say, on its own hook.
But independently of fungus and root-parasites,
it seems clear that the little secret conditions of it scems clear that the ittle secret con itions of
seasons--the exact elements of which no fellow has yet found out- have their own distinct field of labor. Look at the old varietics which have almost have thought "yonc uli," anil see how well they have lone this season. The anti, पuated Catawla
which at one time stool at the head of the grape Which at one time stool at to head of this grapo Insts, equalled its best days, in the few oll fogy
gardens where an attachment to the good things of the past permittell a few plants to survive. Look-
ing at these tacte, we say at once that season has to do with success, , and y'rhap feel some contempt for all other suggestions.
It has been of late years pretty well understool
that an old-fashionel dry time is good for the grape, and we have had it dry conough, in all con-
science, this scason. How was it in the past? than now, for the scientists are telling us that the cutting away of orests increase dry nimes. dizel
the Catawla did well in all the rain and drizzle
these pre-seneratic days. Thicre must be some canses besides mere clim the mere looker-on that beyond the mere fact that the Cata wba grape has dune remarkably well this
season, so little more shoull loe positively known.

## Liquid Manure for Pot Plants

The beneficial results obtained from manure
water, when judiciously applied to fruiting and Howering plants, have loug been recognized by cultivators, ind its use is now becoming more
geeeral. It is well known that the roots of plants
are more healthy when trowing in pure soil free are more healthy when growing in pure soil free
from rank manure, and these roots will draw up more healthy nourishment to the plants from man-
ure given iu a liquid state, than when they are envased in rank material which they cannot consume. We know that our most sncecessiul grape growers use
very little solid manure in the soil, only a few hones or bone meal, or similar material,
cannot give off more stimulant than the plants can consume and als "remaius much longer in the soil
as a fertilizer than manure, which dissolves constane, fertilizer than mamure, which dissolves
as a
rapidly. The successful florist has more faith in giving
stimulatits when the plant really needs them than in keeping the roots buriel in the soil made rich
and almost offensive loy strong manure. When roots are few and the plants alinost at rest, the purer the soil and the less stimulant the plants re
ceive, the better will they thrive when their roots coine to draw up larger supplies of nourishment.
Moisture is needed to soften the soil and to allow the roots to extract nourishment from it; but when
all the virtue is out of the earth, and the plants legin to show signs of distress, all the watering in the world will not give vigor to the exhauste functions, manure be mixed with the water sufficient to color it, and let this be repeated at every wase at longer intervals, the result will he mos satisfactory. I have tricd a number of experiments this season with liquid manure, and all lead me in a weakly stato. bound, hut pressure of more importint matter to each watering a coloring of guano was allowed and the plants with their pot bound roots have not
only made vigorons growth, Dut tlowerel freely from June onward to Novenher. Some Pelaryo
iums, which were cat down last seaison and al lowed to break in the nstar way, were shaten on they should have been shifted, they were allow to remain in the small pots, which were crammenc
with roots; guano water was given at all time when they requirired moisture; the plants grew and which were tivored with laryo pots and fresh soi siving liguiul manure frequently, and not until root are in abundance to consume it, is the proper way
to deal with this important assistiant to cultivation. to deal Wit
F'lurivit.

Pruning Trees and Vincs. turists, thum thon sieving timo tong practical hortitul
 Crue, although whumes of nonsense have hecn writ-




 operation, although it may , put oti with some
there appear to be many erroneous ideas prevalent
among those who have had little experience in
plant culture, and the most common one is, that among those who have had little experience in
plant culture, and the most common one is that
vines and trees require pruning only once a year,
whit fing Whit vigor of the specimens. A raan, for instance, concludes that his old apple
or pear trees reetuire pruning, the hranches having
hecome too alundant for the free admission of light ir pear treese require pruning, the branches having
becone too almundant for the free admission of light
ant air into the centre of the head, or leceuse
athe lealing shoots having lecome to talt and air mito the centre of the head, or because
of the leading shoots having lecome to to till
or the lower lranches drop too much to al
mit of working the ground underneath. He, mit of working the ground underneath. He ,
therefore, proceects to thin out, cut back or trim
up, severing large or small branches, as the case p, severing large or smal branches, as the cer-
may require. so far, the operation may be per-
orned in a julicious manner, but in the months ollowing it will usually be observed that numerous prouts will spring from latent buts near the
poirt, where a lranch has been severed from the
nain stemn or clscwhere, main stem or clsewhere, and if these are permittel
to grow it is at the expense of those and other parts of grow it tree; besides, in most cases they spring from the points where no shoots are desired, and will be removed at the next annual pruning. Examples
of this kind may be scen in hundreds of orchards at any time during the summer months, the vigol
of the trees being wasted in these sap sprouts, as they are usually termed by farmers. Now, the once or twice during the season, breaking or cut
ting off the surplus shoots while they are youns thereby forcing the sap into other chanucls. the carc of orchards wion readily see experimponce ince
of this operation in connection with that of the of givar annual pruning. Of couse we do not assert
regal
that all trees repuire pruning overy y that all trees repuuire pruming every year, but if it is done, Summer pinching and rubbing off surplus
shoots should always follow. If trees are properly prunch at the start followed by julicious care in
Summer, there well be little neel of removing large branches as they
should receive its first severe pruming at the time of planting in the orchard, and there is little The next perioul in the life of fruit trees when they have reached an age of unfruitfulness, eithe bear or of neglect of pruning or culture. Ol orchardsishich bave lecome almost or quite barren
may fre fuently be restroed to health and fruitul. ness by removing onc-half of all the branches en
tire, and then shortening the remainder one-half the same time adding fertilizers to the sin during the Summer in removing the yount syrouts
which will issue from the severoly prunct , ranches Hew of the strongest should be per which start at
sclecting thans for this purpose whe
points where new branches are tesired. Many our old and now almost worthess pear and apl ing combincd. In removing large branches from
trees it well to cover the wouls with prafting wax or some similar sulsstances which will prevent What we have saill alove in regarl to fruit trees
is also applicable to. grape vines. If prumell hefore
 viborons shoots, ias well as rul, ing oir the feelb upon all cultivated vines, are very important
operations, Anmal pruning of prapevines is fencrally conceded to be necessary, but the equaly
essential manipulation in Summer is far too freTucently neglectel; hence the numerons complaints
of fiilure to oltain well ripenel fruit or vigorous
 The former are seldom sccured withont attention 1riunink may have been performed. is that the first step in the imprownenente of phant first prumine which may be considitcred as having
lendone the time of taking the buls or coin lifo mof the tree or vine necessary, hecause hence
in, ward the plant is placel under artilicial contine
 oiten suffer firm tou mulh or too little water. It
from too little the leaves curl or fall, and the plant
have a dried up appearance. If too much, they
et yellow and drop off. As a rule, a basket in a
arm room should be taken down once $a$ week, sark room should be taken down once a week, Mp again. Every day during the rest of the week
a little water may be given the plants, and someande water may be given the plants, and some-
thing put under to catch the drip. Sonc baskets
liave no provision for the escape of moisture. have no provision for the escape of moisture.
These are draverous. Atill some people manage
(o watok closely, and do well with them. Fern on watok closely, and do well en for, though crns are supposed tigrow naturally in shady spots,
tis hecause there is grueratiy a more humid atmosphere. If they can get this moisture they rather
ike light.

Michigan Horticultural Societ Grape Culture.
At the monthly meeting of this Association,
(iraul Ravids, President Bradford read
"Co
 was intended for those who love grapes,
but have never raised any. He recommeuds trenching the ground to the deptho of
meighteen to twenty inches befere planting which cists from $\leqslant 10$ to $\$ 15$ per acre, but pays from 50 to 100 per cent. per anuum. If trenching is dispensed plantel, space may we economized by diges can be
enriclining a strip tw ennicling a strip two feet wide on one or both sides
of the garden walk. If both sile
of twe of the yarcen walk if both sides are used, a space
of two feet should be left between the rows. Tho
rows slow rows should be left four feet apart, and the vines
from four to six feet apart in the rows. The latter should run north and south, or better, southeas ann northwest. With the vines planted foor feet
apart in a giveen space, the produce at the end of
two years will be double the quantity yielded when the vines are plauted six feet apart; at the end of the fourth
terial difference.
For early bearing, he recommended the selection
good two year old vines; those which have not been pruned and transplanted the previous year,
are best. In planting, the roots should be ex posed as little as possible to the sun and wind. If
the vines are planted in the Fall, they must be protected ly a covering of earth, or some othe
material. The holes for the vines should be eigh teen inches in diameter, leaving the bottom ant
well loosening the soil, six or eight inches deep in the centre, and eight or ten at the circumference.
tiakes from six to eight feet in length should b. gt in the ground just back of the centre of the Before planting, eut back the ends of shor nches. Place the crown of the roots on the nound in the centre of the hole, and spread the
couts out evenly all round; cover with two inches if fine, rich soil, put on and pressel down with the
hind aip the hole to a level of two or three Fand. Fill up, the hole to a level of two or three
nches alove the crown. Horse or cow manure to the depth of one inch may bo put on the surface.
Cut the cane back to two or three well developed huls, and when the shonts from these have mallo a growtho of six or eight inches, select the best one
mil cut off all the others, as but one shoot must
he allowel to to mow the first season. This shoot is he allowell to erow the first season. The shoot is
to he tiad to the stake and the laterals, after Waking thre or four leaves, must be pinched back the same. At the cnd of Othober the young vine if the grownd and laid down and covered. In Spring, after the frost is well out of the ground,
the vine should be taken up and tied to the stake. As soon as the buls start, rub off all except the
nur upper ones. (Ouly two shoots are to be grown the second scason. The reason for allowing four
huld to make a short growth is that in case of accihints to thake apper shontes their places can be supphich liy those from lelow. After the upper ones
are lonk enought to le tiel to the stake, the lower
ones may loe rulbed off. The two shoots are to be oncs may we rutsen enc of last season, by pinch-
treatel like the single onc
 nalu them nure stucky, aud tor ripen the wood.
 phantel twin feet apart, cut the shortest cane back
to within furur fect of its hase, for the lower arm
 feet respectively. If the ground is lower at on

## upper end an of the lower.

As soon as the frost is out of the ground in the Sping, a trellis must be constructed with upright posts and horizontal strips, or wires. When
tastening the tines the the tellis, the short arm
should be trained andong the top of lower strip or should be trained along the top of lower strip o
bant and tid with hark or twine The long anite bar, and tiod with bark or twine. The long cale
should be fasteneet to the top arr about twelve
she should be fastened to the top bar, about twelve
inches from the perpendicular, and the arm brought down in the same direction as the lower one, and
tied to the strip of wire tied to the estrip of wire.
No shoots should be all
tho shoots shond be allowed to grow, exeept on apart, by rubbing of the lower ones. Sum. mer pruning is highy does not consist in removing the leaves, but in $r$ moving every superfluous shoot, and in repatedly
pinching or cutring the laterals.
One-thirl
mor pinching or catcing the laterals. One-third more
grapes may be perfected in a
given space with sum
 in Winter, the erpane orop ii. sur
kind of fruit. Western Rurral.
fireside setectioms.
Spring Has Come Again. The path sare plesenant through the land,

 Now that tob fowers are everyw
Nor smiling gea, nor sky abov



 No obeting tor you and me? Nont thate eway hat ourrers paine everyy
0 love do you remember vet Where cowsition prow, and
Man shinm totat, hat ratevint ther


## How to be Polite

Do not try too hard to be polite. Never over-
whelm your friends by begging them to make whemselves at home, or they will soon wish they
there there. were there. Show by your actions rather than
your worls that you are glad to see them. Have enough regard for yourself to treat your greatest enemy with quite politeness. All petty slights are
merely meanless and hurt yourself more than anyme else. Do not talk about yourself or your family to the exclusion of other topics. What if you are
clever, and a little more so than other people, it clever, and a little more so than other people, it
may be that other folks will think so, whatever may
they ought to od o. It may be interesting to yout to
tatk over your ailm they ouver your ailments but very tiresome tor orthers
to listen to. Make people think you consider them to listen to. Make people think you consider them
clever and agreeable and they will lee pretty apt to haver a pleasant opinion of yourself. PTreat people is much easier to lose the gooll opinion of people is much easier to lose the good opinion of people
than to regain it; and when heo or shie does not care for the good opiminn of other he or she is not worniture, or the table you set before your guests. It is fair to suppose their visits are to you, not your tercourse is very delicate andl intricate sud it is our business to keep all places of possible friction
well supplied with the oil of well supplied with the oil of politeness.

The spelling schools that are spreating all over woman can spell five times better than a man. Love, Fear, Hate.- Love nothing but what just and honorable ; fear nothing but what
ignoble; and late nothing but what is dishonest.
Has it never occurred to ins, when surrounded by sorrows, that they may be sent to us only for oui
instruction, as we darken the cages of lirds when we wish them to sing.

## Heginning Badly

Hard times compel economy, and they suggest a very common fault among young people - beginning
ife with extravagant habits. Most men who acquire large wealth begin prudently, spending little
and saving much. The following incident has a and savi
moral :-
One old gentleman, who commenced life as a
poor boy, hail, by mastering the difficult steps to Ooor boy, hal, by mastering the difficult steps to
final success, gainel considerable wealth as a merWhant When he arrived at old age he retired to
che
chivate life, to live in ease and con private life, to live in ease and comfort on his in-
come, leaving a prosperous business in the hands of come, lea
his son.
In three years the young man was lankrupt. He
had failed in business, and was compelled to take position as clerk in a stranger's store. His father was asked why it was that in a business in whi
had failed.
He gave this characteristic answer:-
" When I first commenced husiness
"When I first commenced business my wife and
lived on porridge. As my business increased wo Thivel on op porridge. As my bussuess increased wc chicken. But you see Johnnie commencel with
the chicken first."

## Sea Shells in the Andes

 Sea shells have been found in the Andes mountains fully 15,000 feet above the sea! When I first heard this I had almost a mind to declare that I
didn't believe it. But it is never very wise to sia didn't believe it. But it is never very, wise to say
that one doesn't believe anything that's wonderful without stopping to inquire further; there are so
many wonderful things that are true. And this is many wonderful things that are true. Anc inis in
true. The great traveler and naturalist, Humboldt, pickeld up some sea shells at that great height on
the top of the Andes. How did they get there It is not probable that the ocean waters ever rose
to such a height, but it is quite likely that the now magnificent Anles were once very low rilges be-
neath the sea, and that these great fires which are
nath neath the sea, and that these great fires which are
always burning in the heart of the earth and raging
to get out, once raised up by a might effort the to get out, once raisel up by a might effort the
whole long and grand range of Andean mountains
Sh the se shells were carried up with the moun So the sea shells were carriec up with the moun-
tains high and dry as they are to-day, and the poor shell-animals wondered at the dreadiful change, and
sickened and died in the litter, dry mountain ai sickened and died in
long, long ages ago.

## Crrors in Books.

 It is related of a literary man in Greece, that heundertook to publish a book which shoulh not cont tain a single error. To accompllish this result, afte
having the proof-sheets carefully revised liy difterent havsons, he hung them up in a public room of the college, offering a reward of one suinea to any per
son who would detect any error therein. Many ou
the learned atracted son who would detect any error therenil. Many
the e learned, attracted lyy a desire to succeel, and
others by the reward, carefully pernsel the sheets others by the reward, carefully perused the sheets,
When the look make its appearance, on the ver frits page, and in the second line, a typupyraphlical
error was dise ercurate state of printing in general is to be all
anired mired, and crrata onght more freely to be par
doned than the fastidious minuteness of the insect eye of certain critics has allowed.

## Gaiety.

There are two kinds of gaiety; the one arises
from voant of heart: being toncheil ly no pity syn pathising with no pain even of its own cansing, it
shines gleaming suln. The other springs frome rore ss heart; that is, from a heart overtlowing with kimi
ness towards all men anl all things; anl, sufferin under no superalded grief, it is light from the harin
ness which it secs same river, sparkling and smiling under the sun same recr, and ruming on to give fertility and in
surease to all within, even to many beyont, its reacl

## Russian Proveribs

Every fox praises his own tail.
A delth is aterel
Roguery is the last of all traded
Never take a crookel path while
straighlit one.
Fear not threats of the great, lut rather the tears of the poor.
Ask a piy to clin
Ask a pig to dinner aud he will put lis fect on
the table.


Under a Microscope rious revelations of a microscope by the purchase even of a cheap instrument. It will well purchase the
expense incurred. Here is a list of some of the wonders seen through a microscope:
Insects of various kinds Insects of various kinds can be seen in the
avities of a grain of sand. Mold is a forest of weantiful of a trees, with of samd. Mold is a forest of
branches, leaves, flowers
 coverell with scales like fish; a single grain of sand and yet oner hundred and fifty of these scales, Through these narrow coversings the sweat forces itself out like water through a sieve. The mites stagnant water contains a second. Each drop of swimming with as much liberty as whales in the
sea. Ean sea. Each leaf has a colony of insects grazing on it,
like oxen on size of a pin head contains alout potato-rot the ferocious little
other savagely

## VARIETIES.

Strive to el
others down. oung man who persists in Loafer. - Does the ect how much less it would cost to be a lecent, rehooses to be, but it it expensive being a loafer. It
costs time-lays, months, years of it It costs time-days, months, years of it. It costs
frients. Your consorts will be only the buccaneers of society. It costs health, vigor, comfort-all
true pleasure in living honor, dignity, self. respeat true pleasure in living, honor, dignity, self-respect,
and the respect of the world when living, and Mextal Cultivation. - What plowing, digging xamining is to the minin? (linking, reflecting and ture, and as the land that is suffered to lie waste ,rushwoor, brannlles, thorns and weeds, which os sprout up, in a neglected, uncultivated mind, a great number of prejulices and absurd opinions,
which owe their origin paitly to the soil itself, the
passions and imperfections of the mind of passions and imperfections of the mind of man,
and partly to those seels whicl chance to be scat-
tered tered in it ly every kind of doctrine which the
cunning of statesmen, the singularity of pedants, and the superstition of fools raise.
Ear-rivgs And Other Trinkets. - My dear
yirls, leave this trinket show to Indians, and use no other jewelry than a neat, small pin to hold the
collar, and a delicate small chain to guard your watch. The watch1 should lee in a poocket and not
slippel under the belt. The belt must be mis. chievously tight to holt, The belt must be mis-
the watch. To wear a watch pushei half-way under the belt is to con-
stantly expose it to accilent, and t best to make a nin announceenent of the fact that you have one. know a nobleman ly his plain dress, and by the
absence of jewelry. And I will add, that everycesse yol will know a shodly pretender by an ex-
con on fispelry. No person of really fine culture delights in an exhilition of trinkets or gew-
taw of any kimul. The retinel soul cannot make an ornamental paral.
The Pall Nall cirtoct", says: In the present day a nany that it is well not to stake too much on the
certain operation of instinct of any sout An imretus will perthaps he given to this tendency seceller from the opposite camp, but a bona-tide at-who has declincul to follow the course assigned
to hinm ly the best zoologists. This rat was des.
inell the other day is lreakfost for tinect the other day as lreakfast for a serpent in
the Jardint des Playtes at Raris, and was with this
purpose introduced into the casco the with propose introluced into the cage of the reptile. It
was unguestionally the rat's duty, as unguestionally the rat's luty, on being
brought face to face with the serpent, to have be-
 inesisting prey to the destroyer. Far from ful
filling the duty tratiitionally incumbent upon him, bhis laring innewator tlew at the throat of the
nake and lit it so serecely as to proluce instant
 hancs worth of serpent. This unexpected result
hais, howerer, hai the thool effect of determining
the managers of the Jardin des Plantes to feed the managers of the Jardin des Plantes to feed
thcirir rectrites uyon ldeal animals only, the sf fasci-
nation theory " having proved in utter failure.

## The Beauty of Our Cuthtry Homes.

[from " honies and houses," bi d. g. mitchell. Before we leave wholly the ex erior of the honse, It hink a woriu or two puay be worthily said of the turf or graveled areas.
turf or graveled areas.
The Frrnch love very much to set off their house walls - even in the country. by bringing up broad
stretches of graveled surface to the very mason stretches of
work. Thiq treatment may make more clearly discernible the nicety of architectural execution
but it appears to me sadly garish and un home but it appears to me sadyy garish and ung, wher
like. With a school or public building, wind many feet tread close upon the walls, there is apo logy for it; but with a hom stead there is none The ordinary Engligh manner of bringing up where such surfaoe is positively needed for ap proach-ways, and of covering all other parts of the
olosely out-lying ground with turf or low shrub berv, is far more agreable to the eye, and serves better to associate intimately the country house
(as every country house should be associated) with (as every country house should be associater)
its own bit of surrounding landscape. Few exterior charms about a home can compare with that the house is a positive belonging to its situation, and is so adapted to it and allitd to it by the cares. se allowed the exaggeration) to be only a most happy and natural crystallization of a mans home wants into that shape under the influences of the scene and of the surroundings, In this most de.
sirable and artistic " keeping" of home and landscape may be found a valid argument for that use of homely material, in way of rough boulders,
which is now fortunately gaining favor. It would be consummate folly to go far out of the way to seek such; but if they are at hand along all adjoining roadside, can there be a botter and happier
mating of the home to the landscape than in lay mach hands upon this natural wreek of the hills, and
iny deft adiustment of their varying shapes and yy deft adjustment of their varying shapes and colors building up sheltering walls that shall keep
all the lichens which dapple the country fences, and shall invite the vines :
To return now to the matter of approach-there should be a neat graveled way to principal door
and to the service entrance. Beyond this, and as regards secondary entrance-such as that o a ver
andah from 2 bit of lawn surface the question is to be determined by thase common-sense rule which dominate, and always should, all matters of
taste. If such an approach is to be so commonly taste. If such an approach is to be so commonly
used as to impair the turf, by all means provide against it by a graveled walk, if otherwise, or the
surface is only to suffer occasional summer service surface is on be richer and more fitting than a car
nothing can pet of turf-always provided that the same be kept approach of lawn surface to the very step involve n fatiguing watchfulness lest children may despoi it or chance visitors impair it; there should be n to any whim of gardening tastc. The neatness or the order that forbids iree coming anel going to either porch or hoor main end all gardening and architecture about a comntry house should persist ently point.

## Allen's Planet Jr. Drill and Hoe

 We consider this the most complete little imple ment we have yet been for garden purposes. The drill itself is a good one, but the aceler the con-sider the victor, as it can be run along the drils and take the earth from or place it against , plants, or leave the ground level and well preparcl. It does the work as well as can be done by hand, and finishes a row as fast as a person walks. Those who use such an implement must be able to raise crops at such prices as woubl be runoun to
 ing their crops
supply then.
The Agricultural Exhititions of 1875 will be held as follows: Guelph, Sept. 14, 15 and 16 ; prizes 22, 23 and 24 . $\begin{aligned} & \text { Provincial at Ottawa, sept. 21, } \\ & \text { Hamilton, Sept. } 28,29,30 \text { and }\end{aligned}$ Oct. 1; 88,000 . Western Fiui, Londen, S' S ${ }_{\mathrm{C}} \mathrm{t}$. 28 , 29, 30 and (Oct. 1; © 12,000

## fatrons of ignsbandro.

Granges Organized Since Last Issue The first name in Fist is the Master of the Grange Secretary.
155. Elimville, Huron. Lennard Honter, Exe-
tr; S. P. Halls, Elimville. 156. Alliance, Middlesex. George Lethbriige, 157. Farmer's Uuion, Lambton. Francis Hear iss. Woorhill Gir Thomas Waril Wond. Woodhill Grange, Peel. Thomas Ward,
Wee. H. Ward, Woodhill. 1.59. (iranton, Middlesex. Plilip Mowbray, Virantum: James Grant, Grauton.
160 . Esremont, Girey. Jas. Rogers, Dromore 160. Errenont, Girey.
Thomas Fergus, Dromire. Rogers, Dromore
161. Sulford, Oxforl. William B. Nellis, Sul. 161. Sulford, Oxforl. Willian B. Nellis, Sur
orrd; Janes Dumpty, Sulford. 162. Livingston, Bruce. George Armstrong,
Teeswater; Robert Watson, Teeswater. 163. Kilhride, Halton. John Agnew, Killride; Th3. Kilhride, Halton.
164. Queen's Valley, Grey: Thomas Ellis, Kim-

1. berley; John Hurlhurt, Kimberley.
2. Olinda, Essex. John H. Stewart, Olinda
A. S. Fox, Olinda.
3. Apple Girive, Flgin. David King, St. 167. Syilenhan Valle, Kent. Wm. Bolton,
Dresden: D. . Danard, Dresdev. Dresden; D. F. Danard, Dresden
4. Birr Girange, Middleees. Joseph Ferguson,
Birr; Robert Hobles. 169. Chatham Centre, Kent. David Picket Appledore; Thos. Mckerrall, Appledore 170. Phenix, Middlesee. Hector MeFarlane,
Gllencoe; B. J. Donaldsen, Glencoe. 171. Laugstaff, York. John Duncan, Ri,
Hill; C. L. Hollingshead, Richmond Hill. 172. Thames Road, Huron. Robert Gardiner,
Farquar:; George Hickney, Farcuhar: Farquhar; George Hickney, Farquhar.
5. Knowlton, Brome 173. Knowlton, Brome. Levi R. Whitman,
Knowlton; A. E. Kimball, Kuowlton. 174. Caledun. Wm. Clarke, Caledon; Wm.
Bell, Caleden. $17 . .5$. Dublin. Juhn Bradley, Campbell's Corners;
Peter McLeot, Canpbell's Corners. 176. Darlington Centre. Wm. Cryderman
Hampton; C. W. Smith, Hampton. 177. Mmo Road. Thos Anson, Mono Roarly
Rolert Shields, Monn Road. Rolvert Shield, Mono Road.
6. Rosebnd. Alex. Hume, Watford; H. J. 179. Inman. Juceph Mumby, Dunville; Richavt Hicks, Dunvilite.
7. Millcreek. Wm. Hewgill, Heatheote;
Samuel Coodfellow, Heatheote. 181. Midhurst. John McGowan, Midhurst; Geo. Sineath, Midhurst.
8. Gawanstowi. Wul. Turnbull, Shipley;
Rinhert Wiloon, Shipley.

## Artificial Manures.

Sir,--Owing to the worn-out condition of a great
portion of the land in this section, and the impossiportion of the land in this section, and the impossi
hility of obtaining barn-yard manure in sufficient quantities to rencuate it thoroughly, several mem.
bers of this and the neighboring Grange are this ycar experimenting on a small seale with artificial
manures of different kinds, to endeavor to find out which would he the most profitable to employ on a
more extended scale next year. I have been remore extended sale next year. yo naverous correspoulents as to the value of salt as a renovator,
the principle by which it acts on the soil, and the quantity to le used per acres also, the price per ton
of refuse salt at the wells, and the best manner of of retuse
shipment.

## Socretary Gackson,

Newburgh, May 22nd, 1875.
[The alove is received as part of the paper is besupplement. Perhapa some other Secretary, Patron or reader of this paper will reply in time for next issue; if not, we will give eome information on the
subject.-ED.]

## Superphosphate

Superphosphate of lime is coming into demand apidly in Nova Scotia. The Brockville Chemical works have shipped five car loads of ten tons each,
for that part of Canada. Last year they only hipped one car load to that place. We should like thear from our Nova Scotian subscribers the results of their trials, as to the quantity used and the method of application, as many of our readers would like to hear more alout its use.
Our readers who have the pleasure of a lawn, and lave no mowing machine except the seythe to cut it with, may be pleased to know hat Levi Cossit, its work quite as well and is less liable to get out $f$ orler than some American mowers we have seen ind for which nearly doulle the price has heen,
ind
haid. We have a sample machine at our paid. We have a sample machine at our office
Let us support Canadian mechanics. Before pur Let us support Canadian mechauics. Before pur-

chasing, see Cossitt's; they are procurable in each | dhasing |
| :--- |
| town. |

©ommercial.



 though there is a devire on, the part of farmers for more mot
ture for the errowing rerys.
Fs.
 good promive of heary cryps. It it estimated
of the fall crol in the Western states is killed. The Canadian wheat prospect is. we believe, on the whole,
aroroble, thouk reporture contictory The reports, even
 than our bouthern and western neigh
teen freer from ninjury.

Produce Markets.
$\qquad$



 May 24,-Mhur dull price Yonk in in
$\qquad$









Nay 25.-Wheat, fall. sion. sporing, Pfe to 98c.



Stork aud gairy.

## To Prevent the Air of Dairy Rooms

 from Becoming Electrized.The best preventive of the injurious influences of
an excess of electricity in the air of the dairy room, is to remove its humidity, as that condition of the
atinosphere is most favorable to electric conduction atinosphere is most favorable to electric conduction
and retention. I saw it stated in a late issue of
the Rubral Ner. Yorker that the Swedes practice the Rural New. Yorker that the Swedes practice
building fires in their dairy rooms on the approich
of thunder storms. of thunder storms. This mode of preventing the
evil arising from an excess of electricity in the atmosphere of a dairy, may be successful if very
skillfully managed; but it would be neecsary to
have the fire without the apartment, as the admis sion of air to a degree to support combustion, it being admitted fr
not be effectual.
While the loss occasioned by the electrical con
dition of the air in the dairy is often great, it in dition of the air in the clairy is often great, it it very questionable wheter heating the dairy is practicable. It will involve
by heat
a special arrangenaent for heating to avoid the dif a special arrangenent for heating to avoid the
ficulty above alluded to, also to avoid a degree of heat that might, in result, be as hurtful as the ex
cess of electricity cess of electricity Itis very little known to dairy
men as yet; but I claim that I have provided the most eoonomical and most effective mode by whio of the dairy room, also of excluding air when it in most heavily charged with electricity without in
terfering with the ventilation of the apartment. refer to the system of yentilation which 1 use in my Gulf stream Refrigerated Dairy Room. The
air is all admitted to the dairy (at all seasons) air is all admitted to the
through subterranean ducts.
The temperature of the ground in which th ducts lie being lower in summer (the season in
which alone there is difticulty from the cause under consideration) the vapor in the air is condensed on the interior of the duct and is conveyed to a drip well, just withont the dairy. Thus drying th electricity through the rapor condensed, and will give it off to the earth.
But this is not the only advantage derivable from
the conlensing power of the sul-earth ducts. The entire interior of the ducts being moistened, an particles of duct floating in the air, circulating them by comng il contact with the moistenand is conveyed and deposited in a drip well.
It is important to state that I construct the dairy room as close as possible, so that no
air is admitted except through the subterrane ducts; hence all air admitted enters the dairy the temperature of the earth below solar influenc
or at about $60^{\circ}$-the most desirable temperatur for the butter dairy room and withal, the air is constantly changing. If it were practicable, my system of ventilation for dairy rooms. Wilkinson, Bultimore, Md.

## Prospective Dairy Valtues.

 of political economy that in production, the prospeciality so far as possible. This tendenny has been at work toward supplying the profitable de demand for dairy pronlucts ever suce the Englishmarkets were open to the American article. $A$
dozen States have devoted a part of their A Arricul. dozen States have devoted a part of their Agricul-
tural ability to this end. Canada has proved a tural ability to this end. Canada has proved a
giant in dairy manufacture. The exports of cheese giant in cary manuacture. The exports of chese pounds in 1860 to 89 million pounds in 187,3, , hud, The student of political economy cau tind an interesting matter for examination in this wite
effort of productive ability to foll the denand for a speciality, and the demand still beyond the result of the effort. The plain indication of existing
trade facts is that the manufuture trade facts is hat the manutacture can go further with profit to those engaged in it. of an animal
takes longer to increase the supply on
prodnct, like milk than a bread product like wheat. A field may be changed from one grain to another in a year, but to make pasture and grow dairy cows as been several years since the tendency towards cheese making began. It has reached an extent
which would have swamped the demand for almost
 computations the supply should have exceeded th demand. It has gone along prospering and to risen and fallen time and again Hops have under-
gone a number of revolutions, the price of wool gone a number of revolutions, the price of wo
has covered the hills with sheep and then sent them
all to the butcher, pork has been profitable aud unprofitable, graim has fluotuated brtwren riehes and poverty. Bat the dairy product, in spite o
the constant and enormous accessions to the rank of prodncers, has moved steadily onward without
any thing wide enough to be called the shadow a disaster. These are the facts of the manufacture is we look upoo them
do the facts indicate.
The la est writer upon political economy, Prof
aiinnes, remarks that the flictuations of the mar et price of a commodity wihhin the sphere of Agricultural production, has leen found to vary egetable or animal kingdom. The vegetable prouct is liable to sudden and considerable, hut com aratively short Auctuations, while the commod in advance is established, it is commonly held fo long time at the increased rate. Thus the price
of wheat in England has halved and doubled within a few years, but there has been no such sharp
luctuation luctuation in a commodity of animal origin. in price, but he believes that unless the value of there is not the smallest probability that the pric ago.-Utica Herald.

Dil Meal for Calves,
In answer to "A Subscriber," W. W. Aldrich,
Elyria, Ohio, has this to say about oil meal, in the "A Al Snbscriber" wanta to know if good for calves, and how it is fed. I answer it is good, and will state how mine are fed, and how ments for calves, each about fifteen feet apuartwith rack and manger on one side for feeding hay and meal. I let them ran loose; and keep them
well bedded in the summer with the winter with wheat or oat straw. I have twenty-four stalls for tying up cows, which are so arranged that
can lave access to the oow stables. The calves are turned in with their mothers twice a day, and help themselves to all the good, rich, new milk
they want. This is contunued until they are four months old. I commence feeding meal as soon as they will begin to lick it, whioh is when they are oats ground together-one-third oats -and when oats ground tagether-one- hird oats -and when
we take a grist of wheat to mill, the bran is mixed
with the corn and with the corn and oats, which makes a lighter and
better feed for calves than clear meal, and is not so apt to make them scour
To sum up the feed it amounts to this-corn, cats, bran, and a little oil meat mixer in, just to
make their coats shine and their skin mellow and
pliable. 1 feed nice bright clover hay, and when pliable. 1 feed nice. bright clover hay, and when
grass is long enough tos cut, have a small watch hand to the ebarn, and foed green, a a little and
often; keep) them in the barn until one yer uld after that turn them ont into gool pasture, and
they will take mare of themselves they will take arare of themselves. Sut don't stop
hiere; keep an eye on them, see that they have here; keep an eye on tham, see that they hav
their salt and plenty of water and shade. If you don't believe this treatment will make good calves,
ust take a look into my cill stables and be con-

Butter and Cheese Interest of the軗ited States.
The magnitude of the Butter and Cheese interes is the producers. In is concise way we will el Nawne to give some ilea of the iuterests, of thes
proulucts; will aldo speak of the general style prewlucts; will aso ileak of the general style
checese required, together witl the color. The sul
ject of skinmed or creamery eheese may also b I, Merly discused.
yor most reliable sources, is fostimated at at 1,387
000,000 pounds; the expart
ond 000,000 pounds; the exparts from the States and
Cavida at $15,000,000$, which: at au average of 30 Cauada at $15,000,000$, which: at au average of 30 c
per 1 lb ., would give the vilue of butter alone a
$\$ 420,600,000$. For the year 1874 the receipts of
 iving a total American expont of $113,794,280$ lbs., agyregate of $\$ 14,793,25640$. Estimating home consumption at $24,44,560 \mathrm{lls}$, at 13 c . per lib, the
mount is $\$ 3,175,192.80$ or a grand total of $\$ 438$,amount is
The rectipts of cheese for the year ending Janu-
ary llst, $\$ 77$, , may be cstimated at $2,062,950$
the hoxes; the exports at $1,679,32$, an excess of both receipts
and exports over the year 1874 . The general trade In both brauches, but more especially in exports,
is steadily growing, and whilst we give a gookl article at a moderate price, should the cutire grazing interest be developed in cheese production, the de-
nand wonld be equal to
Here it may mand wonld he equal to the supply. Here it may
be mosst pertinent to speak of the growth of skim
 chotese moved off very fairly and showed to the
prosucect over whule milk cheose. The the coning season does not, howe ere prospect for the coming season does not, however,
show so fairly. As a rule, exporters have lost Innch more hearily on this class of yoods than on
fine chese, and all exporters assert that hereafter
they will buy this styte of poods at a much they will huy this style of goods at a much grea
difterence in price than in any previons year. The best style for export is a Chesldar shape,
weighing rom 50 to $6 \theta$ lbs. The past season,
white chese has white cheese has been comparatively a drog in mar-
ket, whilst at preent worth $16 \frac{162 c}{} \mathrm{c}$; the extreme for the sane quality in is in excellent demand, , but not for a long enough
period for any manufacturer to properly gange the narket. Fine colored cheese is alway: in demand,
and we mivht sugges nuly be prothuced on order from the buyer. The color of cheese should be a bright shade of
straw for export, and for home use a light shade. straw for export, and
Home trade requires through the summer a style of cheese like the Ohios, but of better quality, weigh-
ing from 30 to 45 lbs , flat in shape . When the
heated term is over, the size is not of material im. port. Too much care cannot be given to permon basket amnatto will not be at all reliable. A A A A A hhrink in calur, fully oane-twelfth. course we cannot speak with any ant muthority, still we think it safe to say that prices must average much lower than the past year. Last season neither
receiver nor exporter fairly made a profit. This, rectever nor exporter farry made a profit. This,
together with the shrinkiage in every other branch of industry, necessitating lower wayges, would tend
to instity the above. The stock of cheese on hand to jnstify the above. The stock of cheese on hand
January 1 st , 1874 , was estimated at 200,000 boxes; January lit, 1875, at $17 \overline{5}, 000$
The butter interest, ass is well known, is simply
demoralizel. The entire fault seems to be that the producers were not willing to sell at a fair valua tion in the fall, placiuy their goods above the mar
ket so that huyers could not use the product helief is current among those best informed that Western butter will average in price to the pro ducer more than State. This, in consideration of
the marked difference in quoted prices, is wortly the marked difference in quoted prices, is worthy
the attention of dairymen, viz: To market their
prodnce at current rates, and uot constitute them. produce at cul

## Ginod Cows

The larysest recorded yield of a single cow that io kept at the jail. at Ifewes England In eight averase of more than , 210 gallons as year: or
 $\therefore \mathrm{Mr}$. Nentt, of Shaftechury, V , had a cow
whose milk yielded int prounds of butter in 1866 , or at the rate of one pumd of butter from 20
 Sarch 10th, 1866 anl Jibnary loth, 1867 , teesides It must he apparent that the propnition of butter will vary not only with the hreal, l, lont with the
season of the year. The milk of the Ayrhie is gencrally richer in butter than that of the short. hom, but not so rich as that of the Jersey or Britlate in summer or early in the fall, September and

## \$urle ©om's depaturent.

## Prizes

There was a lively competition between my
nephews and nieces for the prizes, this month nephews and nieces tor the prizes, this month,
and probably only for the buys season, it would
have been keener. have been keener. I would like to satisfy you all
with one; but from the improvements you are mak ing, I think the victors this time will have to work 'alar, or they' H come out second best at the next distribution Maye prizes are awarded as follows:1st, Mary May\#ower, Gloucester; 2nd, James H
Cross, Caledonia; 3rd, Canadian Ciff; Commended,
Frank Frank Lawson, Nilestown. If you are not in receip
of the prizes before receiving the June Advocate, write at once and acquaint me of the fact, as the
prizes should hare reached you hefore this prizes should hare reached you before this.

## charadrs.

4. At the farm I an useful when I am complete-
TTo the horse a delight, to the cow quite a treat; I am sometimes, though seldom, considered a charm, A precursor of fortune, a guard against harm.
But if from my name the first letter you take And if you againnury mead passions you mald remove I am changed to a word that might mean above I originate then in a tropical clime I sometimes am used by fast young
Their vices I help to conceal now and then Now take my whole name, and curtail and behead
And without me this world would be dreary and
dead. dead.
5. In the printing office Gordon, Colborne.
6. In the printing office my first is made,

My second isade; article-but I will not say
what a
My third you mi
ight say if a smart blow
My whole is to all who possess me a trea For I give to my hearers a great deal of ${ }_{\text {plensure }}$ My uhole is in mansion and cot to be found My uhole is in mansion and cot to be foun
Behead, I I grow, but not on the ground;
Behead Behead again, and you will find
Something ind
Sispensable to mankind Something indispensable to mankind.
47. hidjen anglish rivers. Can you seriously intend to make this journey. $\begin{aligned} & \text { The exorbitant rent of the house is quite beyond } \\ & \text { my means. } \\ & \text { E. M., Monckton. }\end{aligned}$
48. hidden animals.

My first is in house, but not in box My second is in dop, but not in in in cat;
My third is in rock, but not in fox; My third is in rock, , but not in fox;
My fourth is in mouse but not in rat; My fifth is is seat but not in chairi;
My whole is the name of an animal. khoda W. EAstman, Cornwall.
fuzzles.
49. Take six and fifty-cne, , place nothing betweer
them and auld an th. The retult will protince a mu
sical instrument. Frank Lawson, Nilestown. 50. Put tive strokes to theve six and make nine51. To a circ

Four times twenty take, care to prefix
Oine thums One thousand inverte 1, and placed in the e real
Wial tell you what's usful to man I leclure 20. My persen tall and blenicrewaist
On either side with fringes gracel Until this tyrant man espiel,
And dragged ne from my And dragged ne from my mother's side. This tyrant has stripped me to the skin
My skin is frayed, my hair is crownel My skin is frayed, my hair is croppect-
At head and font my booly lopped. To vex me more, he took a freak,
He split my And spow, which, wouderful appeerse,
I speak to eyes and not to ears. I speak to eyes and not to ears.
All languages I can command, All languages I can command,
But not a word I understand.

My man, my master, is my slave;
I give command to kill or save.
I can grant a thousand pounds a year To make a beggar's brat appear.
The lawyer may forget his pleadin
年 The scholar can't forget his reading
Ide independent and d
1 die independent and forgot,
And on some dunghill left to rot.

## . Beneath the skies a creature once did dwell,

So sacred writers unto us do tell;
He lived, he breathed, in this vain world, 'tis
true,
Het he never simed or any evil knew. Or e're be doomed to feel the pangs of hell. Which him an immortal soul there was, Which mustbe damned or math among the just.
MARY MAYFLowEr.
54. Chronograph.

1st. One of the Highland chiefs who first refused
to submit to the governmsnt of Scotland by William to submit to the governmsnt ond his fanily, and their dependants, and Mary. He and his samily, anct their dependants,
were inhumanly massarere, Feb. 14, 1692.2 nd
The murderer of Edward Ironside. 3rd. The eldest son of Brute, who is said by Capgrave to have
laniled in England B. C. 1116 , and to have named
it it Britayne, after himself.4.4th. A quack historian.
5th. A Greek philosopher's wife. Gth. A Dutch
ne 5th. A Greek philosopher's wife. 6th. A Dutch
painter much encouraged by Charles I. Fth. The
founder of the fifth state of the Saxon Heptarchy painter much encourageal of tharles i. Heptarche
founder of the fitith state of thax Hen
8. An engineer who died in 1859. The initials will give the year in which pocket watches were first
used in England. J. Cross, Caledonia Springs.

## Answers to Puzzles in May No.


$\begin{array}{r}6 \\ 35-5 \\ 4 \\ 8 \\ 9 \\ \hline 26 \\ 73 \\ 01 \\ \hline 100\end{array}$
42. Czar, Zone, Anne, Reed.
Emma, Neat.

Answers Zreceived to May Puzites.-H. Tommy Ruston, Sebringville; Mrs. Ranson, Har ley; R. Whiteside, Ellesmere; Alice Mary Deam
man; James Stevenson, Fitzroy; Willie A. Ruthe man; James Stevenson, Fitzroy; Willie A. Ruther
ford, Millbank; D. D. Green, Pelmore; Martin
Lang St Me, Mind fora, Milbank; D. Gra Green, Melmore; Martin
Lang, St. Mary's; Frank Lawson, Nilestown, JJas.
H. Cross, Caledonia; E. Finn, Wimniptg; John H. Cross, Caledonia; E. Finn, Wimirify; John
James, Montreal; John Holmes, Winchester; Jno
Houer Houser, Canboro, Maggie Jane Stev cuson, Fitzroy
M. J. Davidson, Fallowfield; Henry Fitzjohn, Low Ap
 Hynes, San Franciseo; J. Walsh, Oregon;
Bremuer, st. J.hn, N. B. ; J. Simms, Ottawa.

How He Knew Him.
A distinguished professor in one of the American
theological seminaries relates the following: Priny in (ierrnany, with a red coovered book in hhis heand
a (Gernan, supposing the book to be "Murris a derrnan, supposing the book to he "Murray,
asked in Engilish, if was mot inn Englishan,
The professor repliel in German that he was not. The professor repliel in (ierman that he was not
The conversation rrevently turned npenn an ohject
of architectural beenty near at hand, in which thit





A cutw rated Scotch divinc had just risen up, a gentleman in the front of the gallery took,
hindserchief to wipe the dust from his brow gettiny that a pack of cards was wrapped up in it.
The whole pack was scattered over the floor of the
gallery. gallery: The minister could not reeist a sarcasin,
solemin as the act was in which he was about to con


## HUMOROUS.

- Humor is to a newspaper what a tail is to a kite
-very absurd, but very necessary to its ascension. The saying "Excuse haste and a bad pen," has
been attributed to a pig who ran away from home. Gilt frames do very well for paintings, but when it come
better.

Being asked what made him so dirty, an unwashed street Arab's reply was, "I was made, as they tell
me, of dust, and I suppose it works out."

Said Anna's mectmathtical.

That farmer understurd human nature who sid That farmer understord human nature who said:
"If you want to keep your boy at kome, don't bear
too haril on the grindstone when he turns the too hard
crank."
"John!
"John! John! wake up, there's a burglar in the
ouse!" said the wife. John sat upright in bed. "Burglar-b.u.-.-.-...-.-r-burglar" - and he rolled A genteel furmer in N asuch A genteel farmer in Massachusetts, a retired Bos--
tonian, dind't know how to take a wagon wheel off to grease the axle, and so he hored holes through
the hub and poured in the grease. Sydrey Smith says. M rive
Sydrey Smith says: Marriage resembles a pair of
scissors, so joined that they cannot be separated; often moving in opposite lirections, yet always " ${ }^{\text {J }}$ (
There is nothing remarkahle about this sentence, Only that it it nearly as short a one ans can be con-
otructed, and yet contains the whole alphabet. "tructed, and yet contains the whole alphabet.
"John," said a father to his son one day when he
caught him shaving the 'down" off his upper lip,
"don't throw your shaving water out where there caug't throw your shaving water out where there
"dre any bare-footed boys, for they might get their are any bare-fo
feet pricked." "Malame," said a cross-tempered physician to a
patieut, "if women were admitted to paradise, their
tengues would make it a purgatory." "And sone tengues would make it a purgatory." "And soine
physicians, if allowed to practice there,", replied
the lady, " would soon malke it a desert," physicians, if allowed to practice ther,"
the lady,
" would soon make it a desert."
A Scotchman went to a lawyer once for advice,
and detailed the circumstances of the case. "Have you told me the facts precisely as they occurred ?"
asked the lawyer. "Oh, aye, ser!"" replied he. "I ancuthe it hest to. tell you the, plain truth. Ye can
thouthe the lies int", it yourself". As Pat Hef oum
As Pat Hogan sat enjoying his comnubial biss
upon the bank oo a southern creek, he eppied a
turte emerging from the streunn. "Och hone!" he
 country to see a snuff box walk." "Whist," said
his wift; " $d$ don't he after making fun of the birds." An economical man, who had a torthache, deter-
minei to remove his towth in the Indian fashion. Accordingly, he bent down himself, and attached a st,out corid to his tooth and the sapl ing. Then he
touched the spring, and the next the knew he hal hurped wer a grove of alout forty small trees, and
was trying to get out of a pond that he had happend to alight in.
yong lady, whon did not know wne letter from an-

 Sydny simith tells of a maid who used to boil

 thrnght that
so mech laryer
An induht inas citizen of Incan arose a few
unruans ut, while the fotive lark was still snor ing, and with a tin bucket under his arrn went to
the barn to mink the fanily cow. It was dark and rainy, and in fumbling about for , lld Brindle he got
into the urong pew and began to pail the off mule of his wagon team. He can't remember which side
of the roof he went out an, but his recollection of pects the bucket down in a few dayo.


## Recipes.

jelly cape.
One cup sugar, 4 tablespoons butter, 4 of sweet
milk, 3 eggs, 1 cup flour, 1 teaspoon soda, 2 of milk, 3 eggs, 1 cup flour, 1 teasp.
cream of tartar; favor with lemon.
extra finf lemon pie.
One lemon; grate the rind, peel the white and throw in white sugar, one cup of milk or water, one one ceppon of flor. Beat fine; save the whites
tablospoon of two eggs; while baking beat done, spread the ioing
white sugar; when the pie is white sugar;, when the pand brown. Good sweet
over it; put in the oven and cream,
ferred.
the queen of puddincis
One pint of bread crumbs; one quart of sweet
milk; one cup white sugar; four eggs ; save the milk; one cup white sugar; four eggs; save end
whites of two; flavor to taste; beat the eggs and sugar together, and stir in the crumbs and mik
bake to a light brown color; when done, beat the whites of two eggs with suggar; spread jelly or any smar this the icing, and put in the oven to brown
over
Whipped cream is much nicer, but do not brown it. Whipped cream is much nice.
Break up any kind of cake in a large glass dish; put a layer of cake, then a layer of jely. wa the dish is about two-thirds full; take make a boile pint of milk and white sigar, When nearly cold, flavor; pour wine or brandy over the cane, throgh the pour on the custar the top whipped cream or icing cake; spread over the
This makes a very nice dish.

Four exgs, one cap of sugar, three tablespoons good sour cream, on

## a.

Two cups of white sugar, two culps of floar, cue
, half cnp of cold well beaten; a little salt, one- balf
whites of forr, wer teaspoon soda, one teaspocin froth, and add white
white of one egg to a stif for
sugar; add with it the grated rind and juice of one orange; take the cake in layers
orange mixture between when coll.

One large cup of white sugar, half-cup of butter,
half-cap of sweet milk, one and a haff copps of flour, whites of forr eggs, one teaspontulu of cream in layers, tar, one-hall between each icing made of the whites
and spreal ber of two eggs and sugar, and sprinkle cocoanikle
each layer; spreal icing on the ontside, and sprinkle each layer; spreat
with coroannut.
One pinit of vinegar to oue quart of berries; sugar to one pint of juice; let hoil
One large spoonful of ginger, and pour five spoons ful of boiling water on it, one ree sit of molasses, mix one teaspoontul of sodn, ${ }^{\text {ns }}$ soft as possible and roll.

- white cake

The whites of six eggs, a large cup of white sugar, half cup butter, teaspoonful of cream tar starch, one cup of crean; dissolve the cond
in the sream and mix thin; Havor to taste.
greger ssaps.
Half a pound of tlour, half ' a pound of sugar, half a ppond pint of molasses. tea cake.
Three eggs, one cups sugar, one cup butter, one Thrce eggs, one cup sugar, one cup butter,
teaspoonful of soda; mix thin and roll.
trizes awarded tilis month.

 Annie A. Glennic "Flower Ga
Ancaster. The of
"Fred ont of this number.

Hints About Washing Muslin dresses, even the most delicate colors, can
cleaned in ten minutes or a quarter of an hour Musine dresses, even thes or a quarter of an hour, without losing their color. Mett half a pound
soap in a gallon of water; empty in a washing. tub; soap in a gatwo other large tubs of clear water, and
patace near the mustin in
stir into one a quart of bran. Put stir into one a quart of bran.
the soap, turn it over and knead it for a few minutes; s suuezee it out well, but do not uring it, lest
it set turned; rinse it about quickly in the bran for it get turned; rinse it about quickity ine a couple
a couple of minutes. Rinse again well for a
Squeze out dry, and a couple of minutes. Rinse squeeze out dry, and
of minutes in clear water. Shand
hang it between two lines. A clear \$ry day hould of min it between two lines. A clear , dry day shooze
hanc
be chosen to wash muslin dresses ; half a doze be chosen to wash masine in this way in half an hour. The last
may be done
mase may me may be prepared in the same way ahite gronnd
rinse may
len fabrics. A colored pattern on the whit gre me dis.
The bran may. here len fabrics. A colored the bran may. here be dis-
must not be blued. The
pensed with. When the dress is dry, make the pensed, for a colored muslin white stare for white boiled,
mnslin dresses. Stir the starch with the end of iv Wax candle. Dip the dress. Hang it again to dry.
When dry, rinse it quickly and thoroughly in clear
 water. Hang it to ity avaith very liot irons. Hot
up; afterward iron it with
irons keep the starch tiff. This rinsing after
ind irons keep, the starch etiff. This rinsing atter
starching is called clear-starching. None of the
stifness but much of the unsightliness of the starching is callouch of the unsightliness of the
stifness, but moned in this way. Ihe adrantage of
starch is removed starchning dresses instead of washing them is: first,
cle if colored, the process is so rapyd condly, the fabric
time for the colors to run; and seconly is not rulbed, and therefore not strained and worn
out; thirdly, the process saves nearly all labor, and out; thirdy,
is so quickly done that any lady may manage
herself in the absence of a laundry maid or a lady's is
herself
maid.


The woman whose fiower seeds all come up. practice the motto of the Farmir's AdVocaise "persevere, and attend to flower gardens, but the find ample leisure to trot off and gons you are
three hours with some dear friend.

much the better. This is the couple that keep a pleasant, cheerful home. But if not, and you are unable wo take the ther JoHNNY, or whatever
influence with broth you would to get to a scrial ; his name
promise him a nice pudding or something of that
port sort. thing else. A willing mind works wonders. But thing else. A wind is a careless slovenly nat, bike
if your husband

this one; well, Tll let you prescribe for him, Such mad certainly no acquisition to flower garleus

Fly Paper.
returns agan, our readers may As "fly time" return, agan, rid of the trouble some insects. "Aly following are approved recipes for making " "rly
giat's Circular :
Dip filtering
these solutions
The first recipe is, quassia chip, one ounce;
, water, one pint. Boil ten minitess and strain, Some add one drachul cif
boil it with the quassia.
The second is black perper, one ounce; boiling water,
strain.
Another is arseuiate of sola, ten grains; water, Another is arsensolve. The Praper is simply im
four ounces. Diss
mersee in the liguid and dried. When wanted for nersen
nis, a piece of the paper is laid in a plate with a
little


## Personal and Household Hints

If yol are
small figures.
Benzine and common clay will clean marble. Ii your flat-irons are rough, ruth
alt and it will make them smooth.
Castor oil is an excellent thing to soften leather.
To clean a browned porcelain kettle, boil peeled potatoes in it. The porcelain
To ascertain whether a bed be damp or not, after the bed is warmed, put a glass globe in between the sheets, and if the bed be damp, in inside of the utes dro
A eman piece of paper or linen, moistened with A sman piece
the spirits of turpentine, and puit into a bureau or
wardrobe for a kingle day, two or three times, is wardrobe for a single day, twation against moths.
said to be a sufficient preserven said to be an -juice and glycerine will remove tan and
Lemands Lemon- juice also boften the hands Lunar caustic, carefully applied,
touch the ekin, will destroy warte.
There can be no friendship where there is no ireedem. Friendship loves a free air, and will not
bevened in ptraight and narrow inclosares. It
pene
 where no ill is meant; nay, where $1 t$ is, it widgments.

VOL. X. \{
Mon Purchase for cash, of goods. There and seller by the farmers and other the credit system
Reverses, acci trouble, and money is exacting and of not lend on landel
are a better means they are punctual means advise fa thing, especially paid for money in found necessary. Society of this institution as any cure money at or
The securities are lender we conside tion for loaning a cash and leave th uncultivated. fertile as possible trees and by pr ${ }^{1}$ much cash in any have a surplus, all est than the bank then you can ap other similar soci At the present monetary places We again advise sible. A society
haps an individual haps an individua
better to do yo
agent, and avoid The Agricultu offices near the such a goorl pur them to be rent f advantage. The anada, nearly al

The We Sinee last issu not improved. jured by the Ju began to shoot ou In this section have over half a
Hay will not be the coldest and perienced. N shortened, but s suffered very ma
and in some sect of the farm prod ened in some sec The June prod
be less than usua we may reason growth; also du

