

Reports from Great Britain show that the pros perous for many years.

The School of Agriculture, University of Min nesota, has instituted a special course in dairying and domestic economy for young women.
All the bills for the extermination of the Russian thistle, that have been pending in the U. S. House Committee on Agriculture, bave been reported adyersely.
Read "Invicta's" queries in this issue re water supply. We would like to hear from any who have satisfactorily solved this problem
will certainly assist someone.

The Rural New Yorker has sent Mr. Bull $\$ 52.50$ as the first instalment of the gratitude fund, whioh
it is collecting for the originator of the Ooncord it is collecting for the originator of
grape, who is in needy circumstances
Great indignation is expressed by all horse and turf papers in what they term the offlicial whiteWashing of those who were engaged in the famous finding of the Board of Appeals of the American Trotting Association.

It is reported that, although the United States Secretary of Agriculture decided to discontinue the past two years in rain-making, several of the rail road companies operating in the far West will continue experiments in this line.

Michigan has a very stingent law against the introduction of fruit trees affected with the black destroy diseased trees will be subliected to -a fine one hundred dollars, three months' imprisoned, both, at the discretion of the judge.
The Governor of New York hae signed the Thornton Bill, providing for the compensation o horses killed for glanders, and also the bill appro priating the sum of 88,000 for horticultural experts at both Geneva and Oornell Experiment Stations.

- As an example of how many of the big wheat tarmers in Manitoba are diversifying their crops this year, Mr. Leech, the well-known Secretary of the central nstitute, informs us in a recent letter
that he has this year sown 325 aceres of wheat, 60 of oate, 45 of barley, 20 acres green feed, 5 in corn and 8 in roots.
Nebraska is making distinct progress with the sugar beet problem. In 1801 she produced $2,700,000$ pounds; in 1882 she produced thirty-three per cent. more than in the previous year, while in 1800 per cent. Over 1892. Next to California, Nebraske produces more beet-sugar than any other State in the Union.
Just at present, the question of the innoculation The anthrax is interesting the Australian world The experiments of Mr. J. A. Gunn appear to have animal vaccinated with the anthras virus an proof against this flock-destroying pest. The cost of vacoination, by the Gunn process, is only four cents per head

We learn, by mean of the New Hampshire Mirror, that by Mublic bething is not allowed, immense fields face the and that the daily attendance is enormous. This shows that, with proper management, it is possible to do away with the great evil of race tracks-betting-without lessening the gate receipts.

The New York State Board of Health and its unbercuin-injecting inspectors have, by legislative suspected cattle slaughtered. A commission, to be composed of one veterinarian, one physician, and three members of the State Dairymen's Association, has been created a board, by the Legislat
Mr. Hatche's aption tended to repress bogus transactions and gambling in grain and other farm products, has been favorably reported on by the Agricultural Committee of the American House of Representatives. It is thought that the prospects for the passage of this bill are
good, and that it will not only be a source good, and that it will not only be a source of re-
veniue to the Governnment, but will have a tendency to stop all reckless gambling in grain and pro-

## A Patr of German Conchers

The cut on first page of this issue represents two of tudwin Coach stallions property of the La Fayette Stock Farm, La Fayette Ind; J. Crouch \& Sot, propritotors, These gentlemen bought the entire lot of the German Government Worlds Fair exhibit of German Coach stallions and mares. They are magnificient animals of the great. est possible style, knee-action and finish. They are solid colors, mostly bays, with a few browns, 18 to 101 -hands high, and weigh 1,400 to $1,500 \mathrm{lbs}$. These hoises have been carefully bred by the German Government in one line for several hundred years, and it is said they breed like themselves, from al kinds of mares, with most remarkable certainty, toppy 10 -hand horse that always sells. These horse show speed, are active roadsters, and are counted the long distance horse of Germany. They are growing in favor every day as their superio handsome, and smoothly built possessing well muscled limbs, clean, stout, flat borie below the knee, and the best of feet, They have the finish, the vim, and the appearance of the thoroughbred, from which they have descended. J. Orouoh \& Sons also handle trotting and pacing stock, particulars of which may be gleaned from the interesting catalogue which they issue.

## A Teachers' Institute.

Mr., Gilbert Wilson, principal of the Brandon Oollegiate, read a paper on "Agriculture in the Rural Schools, "at the late teachers' institute, at
Brandon. The following notes of the essay; and Brandon. The following notes of the essay; and
discussion which followed, we clip from the "Free discussion
Presp:-
"He would place the subject on the programme of studies, because of (1) its educational value, (2)
to sociological value, (3) its economic value, the junior classes, nature herself should be studied and in the senior divisions the knowledge thas
gained would be applied to the practical home life gained would be applied to the practical home life
of the pupil. The pupils must stady nature-not a text book; the only book musuired would be one in which to set down their observations and conclu-
sions. The pupils themselves should bring the naterials of study, such as samples of soils, samples of hay and grain in different stages of growth; etc.
Lessons coul ibe frequently given out in the flelds.
In this In this way a a living interest would be fostered,
which could never be the case if the subject were Which could never be the case if the subject were
taught by text book alone. Pupils should be entaught by text book alone, Pupils should be onco acertin principles of growth, en ate All scale this
to ald tend not only to accurate knowledge but also to a genuine interest in farming. Agriculture hould be made compulsory at teachers examinahe Jorma schools should physe instruction in best methods of presentation," M. M. S. McLean agreed with much Mdvanced by Mr. Wilson, which was not as great an innovation as many suppose, Much of
the work outlined was being actuall yaried on at present, under the name of nature study. Mr. J. points in Which improvementegestight be made many Province. Mr. J. Ridington pointed out that there was considerable difference between the plan as
ontlined by Mr. Wilson and that for whic ontined by Mr. Wilson and that for which many
were at present agitating. He took issule with th pooition lasid down by the eessayist, maintaining that the sphere of the Public school was not to
prepare pupils for any special business, but merely prepare pupils for any special business, but merely
for the dutiee of citizenships He he agreed most in the paper should be done, but contended that this was not the duty of
the Agricultural college.

## Manitoba Crops.

A crop report will be issued by the Department of Agriculture early in June. From what informa wheat area will be about as large as last year, there being always some new land coming under cultiva-
tion hut there will be tion, but there will be a much larger area than before devoted to other crops-barley, oats and
flax, while corn, roots and grasses will be sown in far greater quantities than ever before in the his tory of the West. The Winnipeg seedsmen report
largely increased sales this spring of all field and argely increased sales this spring of all field and
garden seeds. Keith \& Co. state that in all lines they have greatly exceeded last year's business, there being a special demand for corn, peas, turhips, sape forty bushels, whe North Perkins says he
has sold fortate Flint,
besides considerable and also large quantities of timothy, red clover
(principally to the far Wither (principally to the far West) and red-top graserse,
onions, turnips and mangolds. Body \& Noakes,
linseed oil works, say the demand for

Undoubtedly this year, when the time for seeding eereals is over, there will be many wet places upon many faxms throughout this Province and in por
tions of the Territories which will be unft planting potatoes, and also won't be dry enough it time to sow turnips, To all farmers in this \& would strongly recommend that they sow all spot conveniently got at with rape, which would noti only be a great boon to the cattle and the hoga o he mixed farmer, but also to the purely agricul. tural one, in keeping his land sweet and in tone and if he has no use for it in feeding animals, it is the very best manure he can get for enriching his soll, and at the same time the most useful agent in
killing weeds. Sow broadcast, thickly in the second or third week of July. This vegetable is really the est for all kinds of cattle, eepecially milch cows dry. Of course great caution must be taken at the commencement of its use, as cattle are apt to de-
our rather than eat it, and get bloated. The most tavored plan is to pull and feed it to your cattle
When they come into their pen in the evening after doing this for a week or so, give them about two hours a day graving uponitfor a while; after that they may be allowed to go to the patch when they
please.
BoB, BARCLAy.

## Tuberculosis.

Tuberculosis, at the present time, is receiving a great deal of public attention, not only on this continent, but in Europe, Science has thrown new light on this hitherto little-understood disease, and it is now enjoying what might be termed a "boom," The newspapers publish, under flaring headlines, all kinds of misleading statements, generally mixing ap tuberculosis and plouro-pneumonie "Ptxfort it
evidence" is not wanting of the most blood:curding nature as to the imminent danger to human life in partaking of the milk or meat an amimal how-
ever slighty affected others, again taking the opposite extreme, claim that tuberculosis is no more prevalent nor the death rate from consumption in
the human subject no higher than in psit yeat White "doctors odisagree thas to to past years.
which the human subject is in tioble to which the human subject is liable to contrect the disease, one thing appears clearly domonsirated:
that the tuberculin test is an almost infallible diagnostic of bovine tuberculosis; something over
$30 \%$ of cases, showing the reaction from the prove to have tubercules in some organ of the test,
the body The rise in temperature, however, is just as marked only a bronchial gland is aifected as if both unge and all the intestines were far gone with the
disease although its extent or location cannot well be located till after death.
One thing more that seems not very clear as yet whole herds, it has been among pure-bred cattle able conditionat has been considered most favorNow, while science is settling these problems. every cattle-breederce should look whell to hrobis own
herd, and, if he has any suspiciows and be well to have the tuberculin test applied, and do all possible to stamp out this dreaded plague,
with the lympp surgoons ashould provide themselves method of application.
to the seriousness of the situations are wakening up protection in their milk supply, and demanding orporations should insist upon the inspection and sumers within their limits ; but if animals belon ing to private individuals are to be killed for the
public weal, the public should be wilhng, in some public weal, the public should be willin
way, to compensate the individual loser.
The farmers in the vicinity of Portage Creel have organized a ereamery company. The capita
 Ex-Postmaster-General Wanamaker states that
he spent $\$ 10,000$ in testing the free delivery of matter in rural districts, and that the results wer that, in the majority of the cases, the mails and offices became so much larger that private arrange ments were made to have the service contined When it became evident that the present United
States Administration would not continue tates Administration would not continue it.
We publish in this issue an interesting article the We estern farms, prepared by Mr. Mediond, of the
Brandon Experimentail Farm for the Monitoba Dairy Association, for publication in a bulletin it was intended to issue, We have in previous num
bers of the ADVOCATE fully described Mr. Bedford's
methods of cultivation metnods of cultivation, cutting and willing of the
corn, and also the varieties best suited country, and in April 20th issue appeared a letter
 Farm, managed on the methods advised by $\mathbf{M r}$
Bedford. Every body may not be prepared to build a silo oright away but everyone erecting new build
ings should calce to by and plan their barns accordingly.

TEFE LEADING AGRTOULTURAL JOURNAL IN TEAE DOMmION.

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\author{

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} In timportial and independent of all ollyuee or partues



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THI FARMERS ADVOQATM of

OONTHINTS.



 trom the Producors Standpoint. 222 - A Homo-made Staiker:
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ing; Leguminous Plants. 225 -Profesor Wallace's Report-1


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siour Nossip:-233 and 234 .
National League for Good Roads.
The National League for Good Roads will join Association in calling a general conference of all Road Improvement Associations in the United States, to be held at Asbury Park, N. J., between July 2 and 6,1894 , on the occasion of the National Editorial Convention at that place.
It is not intended at this meeting to form any
national organizations, or to take any combined national organizations, or to take any combined
action, but to discuss the general subject with the action, but to discuss the general subject with the
advantage of all the local information obtainable. advantage of all the local information obtainable.
It is expected that some of the road machine companies weill give an exhibition of road constru tionany of branches, at hat time and place expressed a desire to aid in the general movement for good roads, by making very important conceswill be sue transportation of road materials, and sentatives at this conference for the purpose of promoting some concerted action in this direction.
The office of Road Inquiry of the U. S. Department of Agriculttre is actively co-operating in the

## "Will How to Butld a Silo.

 to build a silo of There to are none near here. Would brick building be suitable and cheap? May byre floor? What size silo lower than the be thitable to supply sixteen head of cattle with food during thewinter?
of papers. We ADVCATE is a welcome addition to our list

The first silos were pits dug in the earth, in these the ensiliage was fairly well preserved, but
the most serious inconvenience from the under ground pits was the greatinience frifleum the experiencod in
getting the silage out when needed. With the in roduction of improved carriers on the cutting boxes, trincititaills buropped into disuse. They are now
built above ground, or if constructed n the barn, are on $\%$ level with the sotabte floo
Wood is generall Wood is generally recognized as the best material than brick or stone, and equally as serviceable in
the preservation of the fodder.
gitar location.
Silage is a heavy food, and should be located iilo near the cattle, and also to make the construction as cheap as possible, it is a wise plan to build
in the barn. A poot cellar, or a portion of it, can俍
 height of the barn plates Where the cattle stand
intwo rows, with a feeding alley between, it will often be convenient to build att the end of the barn, with
 located
space fo
sary.

## material.

Stone or brick is now seld on used unless it is de ird even in such ne of standing walls of masonry ined with wood. Mr. E. D. Tilion on, of Tilsonburg
Ontw, has in useseveral excelient silos constructed or Onti, has in use several erceliont silos constructed ot
brick coated with coment plaster. At the Kansae Experimental Station neanly 50 , per the Kant. of en-
silage stored in stone silos was spoiled. Tho uch results have been noted by otheres, yet experi ance goes to pro e that a better ensilage cap b
obtained from wooden silos

FLOOR.
The cheapest floor consiste of solid clay, ralied ground. A wooden floor is not to be recommended A coat of cement, though not necessary, is often ensilage authority, of Ohio, recommenas hollowin from the centre to be thrown up and packed firmly around the bottom of the wall, in order to take part found 4 tion.
The foundation should be of stone or brick formed of gravel and cement is iequasty good seppelupon which the sills rest, should be at least six: inches above the floor, and eight inches above the
ground surface. The sills should be anchored t the masonry by means of iron rods. They may be made
of two pieces of $2 \times 8$ or $2 \times 10$ inch stufit, spiked to gether; these should be painted with coal tar, and hedded in mortar with the ends crossed at the
corners and well spiled together.
suads smaller than $2 \times 8$ inches are seldom used, the Wisconsin Experimental Station, with a viow
to determine the pressure which what sate to to determine the pressure which was safe to allow
on the sides of a sllo, showed that to
tinsure against on the sides of a silo, showed that to insure against
bending, the studs should be not leess than ten inches wide for a silo sixteen feet deep, and not ten
than twelve inches for eighteen to twenty feet deep, than twelve inches for eighteen to twenty feet aeep,
and wider in proportion as the depth increases. In
the these tests the uprights were eighteen inches apart
To be secured acainst latterel pressure, the studs should be mortered into the sills. Strength in the walls is most essential ethe pressure being very great, air and spoils the ensilage.
the
The usual lining consists of two thicknesses of boards, joints broken; a thickness of tarred
paper should be used between the layers of boards paper should be used between the layers of boards. proved so satisfactory as the ahove. Lath and
plaster have been tried, but the silage renders the plaster soft, and liable to be destroyed, as wexperimental Station lined one wilo Wiscon another with sheet iron, neither of which was satis factory. The inner lining should beof boards, dressed
on the side next to the ensilage. A method which is being adopted toa considerableextent, andone which hes the recommendation of John Gould, is to use a single thickness of T. \& G. Lumber, dressed on the inside. In this case the groove should be fllled with
coal tar before the next board tis put on. This forms thair-tight covering, and at much less expense
than two thicknesses of lumber with tar paper than tw
between.

There is much difference of opinion in regard to coal tar or other materinil for the purpose of preserv ng the wood. A lining perfectly impervious to us places are left for the silage juices to enter the rentin whe yenting the quick diying of the boards after the
removal of the ensilage. Some prefer an ordinary oat of paint.
The officers of the Wisconsin Station examined ound but littlos, both painted and unpainted, and built inside the bam, nolining pat the silo erequired. If it is a separate building, the best plan to use two thicknesses of sheeting, with tar paper nly one thickness of inch lumber harted where The silo will be more durable if the outside coat of ornerg.
As arule the ensilage settles baclly in the cornere allows decal to tramping has been neglected, This worst ensilage is found in the cornerg Sharg corners may be avoided by nailing a verticle board behind this board may be filled with sapdust or some other suitable material, Instead of boards,
the corner miny be flled by using a three-cornered pieco of timber made by splitting-say, a $6 \times 6$ in cantling, with a saw,

## Doors.

The doors may be continuous from top to opsilage may drop to the floor of the cattle stable or there may be a space of several feet left between for feeding, but the latter adds strength monvenient and prevents the walls from spreading. If outside doore are used they should be hung on hinges.
The best method for arranglig the Inside is to placeshort boards across the doorway, which will can be built up as the height of the ensilage in. creases-ice-house fachion. By the use of tar paper

In all sillos which are not built inside a building, and for thio reason do not require an outside wall
ventilation between the lining and the outside wail should be provided for, This parmits the cirectl. action of deayy In order th allow for this ventil ation, the outside lining should not come to the
plate nearly by two inches, In the lowest board the outer lining auker holes may be bored
between the studs. These ventilators should be be covered with wire netinge ventilators should be

## THE ROOE.

This in not a matter of great Importance, probe left in the gable for a door, or if the roof is cir cular, it will be necessary to build a dormer window illo. As there is a large amount of heat and mois ture given off by the ensilage, sufficient ventilatio
should be provided for by goodsized ventilatore

Hine of Tise smo.
The size of the sillo will depend upon the number fime which it is necessay to feed themi. A rough doy. The Wisconsin Station poco per animil pen of at least 24 feet. The smallest per centis of whesth ocours in deep silos, but the saditional cost in ravely coumterbalag and elevating the ensilage Aro may be in having the ailo of a greater depth of lumber used than a rectangular one, and the liability to wasto at the corners is done away with At the isual astlmate of 50 pounds to the cubic
oot of ensilage, allowing 40 pounds of ensilage per day per animal for 200 days, sixteen cattle
 as ensilage will ettle, greitly, often toment, the stont
of one-thrd the bulk, allowance will have to to as ensiaghe wili ebutilegreatiy, often to the extent made. In this case, a good size for Mr. Andergon
would be, for a rectangular silo, $14 \times 14$ t and 20 feet leep, or for a round silo, 10 feet inside diameter and 0 feet deep, which would give a total capacity
100 tons, or allowing for setifing, about 70 tons.

It is almost impossible to give the cost of buildng a silo, owing to the grear variation in the cost
of the material and in the price of labor. If built a a barn, a silo, such as the above, wouta cost mate one
material is on the farm, or inp the silo is of of targe
size. Asilo of the dimensions of the one just described if a stone foundation was
ruire 118 cubic feet of stonework, would re-


Carpenter work.

THEAFARMER'S ADVOGATE.
Junk 5, 1894

If single boarding were used, 1,200 foot of $T$, \& G. lumber, dressed on one side, at sow would cost ing and tar paper, besides requiring less labor ing and tar paper,
and nails, which would mose than pay for the tar
required for filling the grooves. If the silo is conrequired for filling the grooves, If the silo is con-
tructed as a building by itself, the additional structed as a building yo tor the outside sheeting expense incure outside sheeting would cost abnut the same as for the inside; it may be either single
or double, as preferred. The single boarding of $T$. or double, as preferred be found cheaper and equally \& G. lumber Whil be found cheaper and equaly satisfactoryt he sound, free from knot-holes and be
boordd must
dresed. Wide lumber is not desirable. It is a dressed. Wide lumber is not desirable: It is a
good plan to put on the inside boards vertically. If
the the silo is circul
will be required.

The Silo, as Adapted to Manitoba: BY \&, A, BeDFORD, BRANDON EXPGRIGENTAL FARM. Even the most enthusiastio advocates of the ailo o not claim that the silo adas anything to the value of green corn, and if it were possible to stack the corn the same as we do our native hay, the advantages of the silo would hardly compensate for the extra work connected with its managementi, But, owing to the large amount of sweet sap contained even in well-cured corn, it is impossible to
stack it as we do hay. tack it as we do hay.
We contend that the use of the silo has the following advantages : It enables us to grow and preserve one of the most productive of all fodder in any kind of weather, enabling us to utilize odd days during wheat harvest.
A silo, properly built, preserves the green com with nearly all its feeding qualities uninjured. Out ensilage is in the best possible condition for miring with other fodder. The corn is stored ima very compact form, occupying litule sposety.

The building of a silo in connection with a bank harn is a very simple affair; the two constructed on and 222 feet deep the sills are Ex6, tamarac; on these rest the $2 \times 8$ studs, placed perpendicularily, 18 inches apart capped with anzral plate. On this frame-work aparb eaple ethickness of boardsare nifled horizontally,
both inside and outs and with tar paper between both inside and out, and with tar paper between
each layer of boards, care being taken that the tar
 boxes o feet squaro and 22 feei deep appears to answer every purpose. As they are inside appears
the barn, , o roof is required.
The probable cost of
The probable cost of asilio inside of a bank barm is about 81 per ton of capacity, with us, is seneeralily Indiunning the the foddor (which outting box; a carroer attached elevates the cut fodder and
drops it in the centre of the silo at the rate of o ton in ten minutery ${ }^{\text {after }}$, each load, this cut fodder it loaves and insure eve as thin
To allow time for Bettling, the silos are fillod on alternate dayss the last two feet of the top is isiled in, a movable covere of boairde, tar papper and chaff

Baefore the silo is hall filled, formentation sets in, and this heat is maintained well into the new year.
 and has adeoided malty oodor and a slightty acid teste, but with ensilage made of imimature or un
witted corn, the odor is disagreeable, strong, and whited corn, the odir cis disag.
The ensilige is fed from the top by means, of small doors in the front, which must,
All stock reedily eat the ensilage, and its effect he semy flow of milk even in mlaw winter. and is amount fed varies from 15 to 3 aned with a proportion of dry In conelusion, we find that ensilage from early
ripening corn oan be proftably made in this Pro ripening corn oan be proftably made in this Pro-
vind tan it it the very thing required to keep the
the - syit

Stummer and Fall Fairs of 1894.
Brandon, Man., July 11,12 and 13,
Portage la Prairie, Man., July 19 and
Portage la Prairie, Man,., July 19 an,
Winnipeg Industrial, July 23 to 28.
Pilot Mound, Man., Oct. 2 and 3.
Springfield, Man.
Springnela, Man., oct. 3 and
Souris, Man., Oct. 3 ande 42
Gartmore, Man., Oct. $4{ }^{2}$.
Manitou, Man., Oct. 4 and 5.
Minnedosa, Man., Oct. 5t
Ceapawa, Jut. 10 and to 19.
Secretaries are requested to send in dates of fairs
to the FARMER's ADVocate:

## Our-Scottish Letter:

Since Ilast wrote, Mr. Gardner, the Minister of Agricolture, has given his verdict on the opening
of the ports to Canadian cattle. He says: "No: but if I am satisfled, by an examination of langs for some little time further, that there is no risk of aisease from Canada, then the ports will be opened in the end of July." This reply, which is not in the words actually used by Mr. Gardner, has been variously interpreted. To the great body of farmers in Great Britain and Ireland, it has given' satisfaction; but it bias by no means pleased the minority in the north-east of Scotland and Norfoll, whose experience with Canadians led them to form a high opinion of their merits as feeders. No doubt the lot of the feeder in this country is at present not a happy one. The gradual increase in the number of foreign stores, imported up to the date or the outcountry to cease breeding cattle, or to breed them in less numbers than formerly; and the quantity of dead meat which is coming in is lowering the feeder's revenue, so that he is between two fires Stores are rising in price, and fat are tumbling, with the result that he is unable to see how ends are to be made to meet. But even at current pricees, farmers are not obtaining remuneration for their home-bred cattle and consequently there may soon be another cry than that which we have heard.
Altogether, the situation is difificult, and the future Will inevitably see changes of one kind or other. minority of cattle feeders, who clamor for the opening of the ports, are to dictate the National Policy gainst the interests of the overwhelming majority
of their countrymen who take another view? hardly right that such should be the case.
We are now in the height of the Ayr and
Glasgow show season. Itis in the west of Scotland that cattle shows are seen to the hest advantage, many of them. At AFt, Mai hill and Glasgow three great shows have been held within a fortnight.
The frrt is the favorite meeting place for Ayrshire The elits is the favorite meeting place for Ayrsiire
cattle, the second is an intermediate kind of gathering, at which a good show of horses can generally
ie seen, and the third is the great Olydesale show of the season. In regard to Ayrshires, sorie have long been inghing juadging, and it is a gratifymg
prevail
feature that ait last there appears to be some hope of getting the great dairy breed judged with an eye
to the production of mill. It is a great misfortune to the production of milk. It is a great misfortune
when a ueoful breed is made the sport of a fancy, When ais too long was the fate of $A$ yrshire cattle. If one thing should have been more strenuously resisted than another, it was the abuse of the milke
ing powers of a dairy breed. All that judges looked at, powa number of years, wais a tight, long, shallow she could win a prize, although they are the very
point which dairymaids detest, It would almost points which dairymaids detest. It would almost
seem as if a form of insanity had taken possession oem as if a form of insanity hat taken possession
of breeders and judges, when antmals with such properties were preferred to place and prize Now,
as phave said, the tide has turned, and dairy purposes are not forgotten when Ayrshires are being udged, Some grand, milky-looking, stock were Mr. Abram Kerr, Oastlehill, Durrisdeer; Mr. Hugh Drummond, Oraighead, Mauchline, and Mr. Robent
Montgomerie, Lessessock, Ochiltree. Sir Marl J. Stewart, Bart,, has a grand milking herd at South-
wick, Dumfries, and Mr. William Hunter, FultoMains, Prestwick, has Ayrshires which proved victorious in the milking test at the recent show.
Olydesdales, ot Glasgow, were one of the grandest exhibitions of the breed seon for nany years. The ramily group prize for the best five yearings aiter gregor 1487, now the oldest Olydesdale breeding
horse of repute. No other horse has so often won in these competions as Mr. Andrew Montgomery's Old champion. His daughter, Royal Rose, bred by Gre And, Montgomery, and owned by Mr. Wm, the best mare under four years old. Mr. Jamee
Loo rhart showed his splendid Darnley Pandora, and won easily in and strong class of brood
mares. She is out of an English dam, and is per mares. She is out of an English dam, and is, per-
haps, the best animal ever produced by the cross of a. Clydesdale sire on a Shire dam. Inthe yeld mare
class, Mr. John Gilmour, of Montrave wor the Ayr champion mare, Montrave, Maud, the the
danghter of Prince of Wales 673, and the worldTred Moss Rose. It was unfortunate that there
 Macgregor in the family competition, and Mr. Wm.
Renwick's Prince Alexander 8899 , won for the Mroup of five two--year-olds, with five out of seven
foals left by him when a two-year-old colt. The championship for the best male clydesdale was won
by Mr. William Clarks two-year-old colt, Royal
Gritl Gartly, which has not yet been beaten in his class,
and looks well. He beat Prince of Millfield. Mr.
Walter S. Park won the special for mare with Walter S. Park won the special for mare with two
of her progeny, with the nive mare, Hatton Beauty,
and her son, Prince of Erskine, and daughter, a twoand her son, Prince of Erksine, mand, Hatton Beauty,
year-old filly by Prince Alexander.
 In these hard times everyone is endeavoring to reduce the cost or production in all branches of
farming to the lowest possible limits. In the breeding and feeding of tive stock there ls no doubt that one of the best ways to reach this end is to breed and feed our stock so as to develope early maturing tendencies in them as much as possible. all che time til thev poife if cattie were fec at the presalt and swine as longs in proportion, before they were ready for the butcher; yet in the beginning of this century that hab how foreffathers would have bear for astonishment and ieg at siv or aren mon the There is no doibt and pigg at six or seven monatho sut is no doubt in this respectamong the comanion farm stock of this co N. Not only does a a tarmer, who feeds his lose the amount of food fed during that peare, but it is also now a well-known fact that the cyoungest mest is, the cheapest to' produce. How can an ordinary farmer so handle his stoek as to encourage
this characteristlo in them?
 extent, this characteristic developed in them: but as there are great differences, even among pure breeds, one from a family already noted for this
quality should be chosen, fif posibles And here let me say that a good male, having once been pronot ho lightly discarded, even it his retention might, entail some in-breeding. at is to the interest or ing of mates as much as sosible, as it brings grist
to their mill There is no doubt that in-bre ha site uses as wella it its abuses. For examplea: inbreeding between two thoroughly good animals
will be more certain to produce an animal having will be more certain to produce sh animal having matuing of unrelated animals will, and there is no potent and able to stamp his good qualities (as wrell as his bad ones) on his offispring. The chite thing
in in-breeding Is to be carefult to in in-breeding is to be carefur to only breed the bes to the oest, and so perpetuate the survival of che
fitest only, which nature, in he own We, io cond
tinually doing with all wild animalo, with no bod revults. I am quitto aware that in advocatigg in breeding 1 amm tread.
as it is a subiect large enough in itself for a seramat ar ticle, I will 1 tosergit for the present, and willonly remark thatsolongastheconstitutionsof theanimals
are unimpared, judioious in-breeding is of great use in securing the desirable qualities of early maturity quady mandurity may be encouraged through, earlhy
eareeding. There is no doubt that the noted shrit breeding. There is no doubt that the noted Short:-
horn breeders of Aberdeenshire have, to $a$ great exhorn breeders of Aberdeenshire have, to agreat ex-
tent, earned the name for utility which their stock posseas, by having them celve at two vears old
instead of three, as is of nstead of three, as is often practiced. Anyone
who has seen their stock can have no fault to find in regard to size. Even if size were sacrificed to a
certain extent it would be sinall the gain, as early maturity and quality yare of much morld to-day. An animal bred early is likely to turn out both a better milker and surer breede
than if left until fully grown. The than if left until fuly grown. The great thing to
be elways kept in view is utility. The ofspring of
be these arrly-bred animals will have a natural ten-
dency developed to breed and mature early, and dency developed to breed and mature early, and
nature will, by this means, along with judiocous nature will, by this means, along with judicious
and careful feeding, be encouraged to do her utmost in the shortest possible time. of course, there is a
limit to this; if carried too far it would te almost limit to this; if carried too far it would be almost
certain to result in a weakened constitution. The certain to result in a weakened constitution,
successful breeder is the one that can so hande his animals so as to get the greatest development in accomplished wisth animelimels of a stich cang and healthy constitution, and all that that impliess. of course
only the best and most rapid only the best and most rapid growers and feeders
should be kept for breeding purposes. The most inexperienced breeder can easily recognise such
animals by their wealth of glossy hair gnd mellow animals by their wealth of glossy hair and mellow "thouch," as these are but the outward signs of
their vigorous constitutions and sound digestive organs.

## At the World's Fair.

111 the Eastern Countries, in the which was made in is illustrated in the antries, in the arts and sciences, small but interesting exhibit was made by Japan. One of the simplest native hives, built in sections, placed one above the other to the number of six was shown. While not presenting any featare that could be advantageously adopted here, it is of speciar interest to American bee-keepers, because it horizontally-divided section hive, and, being one of the oldest Japanese hives, antedates by a few
centuries the patent granted by our Government centuries the patent granted by our Government

The Sitwation as to Home-Breeding.

## BY " A Briomprr.

Beforegiving up the breeding of horses and de claring the business dead, will it not be well to take a candid, practical view of the case; and, befor throwing away advantages already gained, con whether the causes are likely to continue indefi nitalys and if not, how best to prepare ourselves to take advantage of the change when it comes?
Many breeders attribute the presenticondition of the home market to an overproduction and the introduction of electricity. The overproduction has
been entirely of the cheaper grades, and this is the clase being displaced by electricity. Flectricity can civertake the place of the Heavy Draught or fine Ooach Forse. General business depression has had more to do with the fall in the home market than anything else. That this condition will last long no ne believes, A renewed demand is among the there will be a short supply to meet it, because of the falling off in breeding for the past three years and the probable continuance of itfor a year or two ooome.
Now, this ract alone to me is strong evidence of what is in store for those who keep on-breeding firstclass horses, Horses, as a rule, are short-lived animals; the visible supply is being used-up at a very rapid rate, and the fact that it takes five years to produce a horse ready for market is lostsight of by the croakers who are now, and have been for three years, crying the horse business down. Another fact is, that the best time to engage in the produc-
tion of any. staple commodity is when it is down, tion of say staple commodity is when it is down,
and not when it la booming. There are two safe and not when it is booming. There are two safe ness and stick to it persistently, and another is to ness and stick to it persistentily, and another is to Tet up when they are persisting hardest, article. ready to go in when they let go. We have made good progress already, and now to drop it hecause of good progress aiready, and now to iodrop it because o husiness, is to lose ground and throw away good opportunities.
Whe manufacturer can stop his mill for a day, a theistame place where he stopped, losing little more than the interest on his investment. CNot so with
the breeder that sells of his brood mares, or allows them to pass their bloom. deat of money and many yeeme hed spent a great niceclass of naves, to sell them of in a fit of dispondency, retaining only such as they could not sell. The present conditions are simply the resul not going to deotruction; business feeat settling dow to a sound basis, and a healthy reaction is sure to
follow. A revival in general business will bring a quick and strong demand for horses, and tha man high-stepperstosell, can name his own pricefor then It is the firm conviction of the best informed horee
men that that fime will come before the foals of 1804 are ready for market. But they must be good horses The "plug" now ranks with the yellow
dog; there are mighty few people that have any dog there are mighty few people that have any
uise for him. The time was when the American Tramway Company used to gobble up hundreds every vear. But electricity and McKinley knocke horse there is any demand for is something worth looking at, Slab-sided, barrel-headed brutes have had their innings. Let farmers learr the lesson so
plainly taught. Pay, if necessary, a fetw dollats
more, secure the more, secure the service of a well-bred stallion, the buyers will, be hunting you up, instead of you hunting around for a buyyer. Better not
pose upon their mongrel stallions should not im service of such horses, even at $\$ 3$ or $\$ 5$. The very
best are none too good, but I would always prefer a poor specimen of a good breed to a good specimen
of no breed-these quarter-bred Clydesdales, of no breed-these quarter-bred Coydesamples, As a proof that good horses are in demand at the Union Stock Yards, Ohicago, for some Coach horses, gathered for the occasion by Wengars \&
Son. Nearly 200 head averaged $\$ 260$ one pair of
chestnuts $\$ 500$ for a brown gelding; $\$ 600$ for a black mare Francel were bought for export to Scotland and
France. With such prices as the above, I maintain that the high-class prices as the above, I maintain I trust that these few points will cause some standpoint. standpoint
Messrs. Bousfield and Greenwood, of Douglas, system, at Douglas. They purposesecuring a large supply from the farmers near
it shipped every day by train.

Timely Notes for June- No. T.
 Who semens a promotitory of took
 Otion wion kows hrou
 rrevenu" tarif bibi, declaring farmers ought to be iow atisfod, as he had done so much to relieve
them modeiled as to mbecome, whore than dhe ola tain, in
 andosdi the strong, wills of the manufacturers tho weaker will sand smaller numbterare of the tarifin The dilegatee.
The "agrresive farmer" is a phrase I came

 are becoming more aggresive each year Parrhmpe
 We are stoadily losing ground; many ary lopisg for very fanms, throught their weaknees in voting




 neceasty to sell produco to koep the railways in
operation, of is 10
that the farmers have already
 sorueezod out or them, and that in conoequenod
there is no more work for the railways to do, and men who areniler it too ribly to lend money to confesplon is food for the sooul, ", and I think that the plain thuth about the present state of the
coungris ohould bo mede laown, and then, if we
 eilve to bedraged. Let us work for our party-
the farmerit party. L Lot Grito and Toriee go towholl Hailiax, ond wheo to ive in , annda wh

 enough dealamation through tha proos, nid durougb and dur rand th machines. They each claim to be
better then the other. Why in therl pribes, and put tham within rach of the
general larming public; 8100 to 8125 is too mueh

 porer being doorbitarg At therir pricee, there
 the patanteoesthe makers to theaf oute at, say 800

I want toknow, in company wia way more supply of water. Givena good well and an warm comection witha windmill, with mado to work in arrangement, cheaper than a hand-pump? The
 hydraulic ram, with a pige lalid six R foef below the sirfaco it aems to me the supply of water could
be obtained at a minimum osp be obtainod at a minimum costt. A gain, it has boen ray experiance, and that of many othere near horeat
to have the pumps breakk down in the very coldeet time and it is well to have reserve of water on
hand. Which is the simplest form of pump for deop wella? ich is eummpic.
in; don't leave it round the stable for another plough Set an't the hens possible this monthother Tear.
Set the eggs for fertility before using. After two weeks, test again, then "double up" your settings under egge a fresh lot, and let them sit on for another three weeks. It is better than to let a he
away her time with a couple or so of chicks.
This spring should have convinced even the most hardened grader of them all that two ditches for an earth-graded prairie sod is the best trail to travel on. In certain sections in Manitoba, in the wot years, wheels go down to the axles at once. There is no solid subsoil, and only the network of grass and
willow roots to travel on. Again, why is grave willow roots to trave on. Again, why is gravel pality liable for damages when culverts are washed pality liable for damages when culverts are washe
away and waggons and horses get damaged on ba
roads?
"INvicta."

## The Institutes,

R. E. A. Leeoh, Souglas, Secretary Central Farmer's Institute, organized the Douglas Institute on May i2th. The attendance was good, and the meeting interesug. D. Mokeand was elected president, and A. B. Wilkie, secretary-treasurer.

BrRD's Himt
A fairly well-attended meeting of the above inTaylor in the chair. George H. Greig of the FArmirn's ADVodais. George H. Greig, of the "Swine Breeding and Feeding," which was followe by alively discussion. Mr, Taylor stated thet he had fed over 100 hogs the past winter and had not
lost one. He did not believe in boiling feed, but edrongly belioved and gave plenty of water to drink of food absolutely essential to healthy growth of pigs Robert Jackson prefers slightly damping feed, 37 cents itye weight for hogs wresent prices of leave the Fourteen dollars worth of standard agricultura
works were selected, and ordered through the works were selected, and ordered through the
FAmmeris ADvocatr. This will form the nucleus Of a library for use of all members of the Institute.
June Ibth was the date flixed for holding the annual meeting.

## A meeting was held at Oak Lake on Tuesday, Thers was a good turn-out of farmers. Mr. James Elider, President Tas present and addressed the meeting, after which he work of organization was institute orty members having paid their fees, with, about forty members having paid their fees, The ohair was ocoupied by Mr. S. Hanna, and Mr. Whambers acted as seretary. Wr. W. J. Helliwell was elected president; Mr. T. Spiers, vice-president; Mr. Chambers and the following directors, $-R$, I. Lang, J, J. and and R, K, Smith, Nolder and the chairmank the meeting dispersed, all

 Hog Raising from the Producer's Standpoint.In your issie of youna; Yuppmblimak, ONIN ne from Mr. Davies, of Toronto, and theother from . Y. Griffin \& Oo, of Winnipeg, referring to the
outlook for pork. As regards Mr. Davies' letter. he simply gives the oft repeated advice to produce fat that we see so often ${ }^{-1}$ the the heavy mass musty face successfully that farmers and breeders In reference to Mr. Griffn's letter, he seems by its tenor to fancy that only the Yorkshire and Tamworth are worthy to enter the "charmed quires to suit the consumers' demand. is required, I have nothing to say. There are doubtless those among the champions of the breeds
condemned by Mr. Grifiln who will take cudgel in therr defence. It is all very well for a such breeds as Tamworth and Xorkshire, but when The poor farmer tries a lot of spring Yorkshires or
Tamiworth's alongside of a pen of some of those very much condemned breeds, he will begin to see Where the profit has gone, for the money is in the
feed, not the machine. By judicions feeding better grade of pork may be produced than where sir, in what we have to say about the improved Poland Ohina, Mr, Griffin will likely claim I have an axe th grind but all I have to say is let the
farmer that produges the material for the packer try the machine we reoommend alongside of the Does he stop to think thends, and be the judges:Poland Ohma crossego and the Western States are think that all thessespoople have ones, and are we to to wrong breed? Farmers do not think so, and when will be satisfied. The Poland of the country $h$ improved straing, will produce pigs that wil giv hams; good sildes well layered with lean and faf and should when at 7 m
225 , with only
 coming may do much better. Farmers are be coming awarened to the necessity of procuring the produce it or quit the business. The trouble is that each breeder claims his own the best, which leave the farmer in the position of pay Jour money, shut
your eyes, and I'lI give you something to make you wise. farmers to a packer puts in his oar and advises with many farmers who want the boest. Again, al farmers cannot see their way clear to invest in get into a nelghborhood different breeds, and where
this happens the best is sure to predominate, as this happens the best is sure to predominate, a
farmers must have the breeds that reep easiest.

## A Home-made Stacker.

Mr. H. P. Edmunds, of Ilinois, has devised a given herewith :-
The frame is made of two poles or timbers, about forty feet long. This is long enough to build stack wood to avoid unnecescay weight in handling : pop lar does well. If suitable native timber cannot be obtained, use pine, splicing two pieces together to secure the needed length, Use $6 \times 6 \mathrm{minh}$ thmmaterial for the upper part At the top they are crosed bar nearer the top is about 4 feet long, and is bolted to the poste
They are set on top of the ground and supported and staked at 1,1. These stakes must be set so the straight line connecting them will run lengthwise through the centre of the site for the etack. The load of hay is then driven along the end, as shown
in the illostration, and the fork loaded. The rope for drawing up the loaded fork is tied to the crose beam, passed through the pulley on the fork frough pulley three on the cross-beam, and extend ngd toward the opposite end of it (to avoid too much of a side dratt), passing through pulley 2 as
hown. After the fork is set, the load is drawn up by a horse or team hitched to the rope whavn up fry a horse or team the palley at 2 . The poles remain in the position shown at $\mathbf{A}$ until the load strikes the cross - beam when the draft brings them over to the position B . The load is them immedataly over the fit, the poles are easily tipped, and in drawing back the fork the man in the wagon usually pulla
them back to the position shown at $A$, or it ther are not thus pulled back they will come into posi- up the next lood. This is a very cheap
and
tacking hay honstructed dond ce for stacking hays and can be used where hay is hauled on wagons, hay sleds, on by any of the devices for drawing in will bo made ats single setting, can be raried to suit tho Quitider. Quitite a common method is to put up a constacker on far enough to build ano ther section to the first, and so on, making A long rick. This method aleo saves
 Thepped ropeng toust be quite losition. rarying somewhat with the length of Dominion of Canada - Department of Agriculture-Dairying Service.
by jas. W, robertson, datry commisThe Domi bioner. rion on navelling dairies in Manitobs and the Yorthwnest Terret tories. They will be $\frac{\text { nigsioner for the Dominion. }}{} \mathbf{T}$
The ebject of the travelling dairies is to afford tunity to gain further exact, prectical and hap information on all parts of the process, from the separating of the cream to the printing and pack-
ing of the butter. ing of the butter.
utfit of dairy utensile , iner and an assistant, with an eparator, a churn, a butter-worker, a Babcock ailk tester, etc., etc,, will compose each travelling dairy. Two days will be spent at every place necessary preparations of a place for meetings, a supply of millk and a supply of ceream, illustration The programme of instruction and illustration wince with the following time cards:-

10 to 12 a m.-(1) Running of centrifugal cream separator, and separating cream from about 20 gallons of milk to be supplied by the local committee; (2) teging samples of mills; (3) preparing about comittee. 2 to 5 p. m. (4) Churning of cream supplied by the local committee; (5) making butter etc.; (8) Ripening of cream from centrifugal separ-
ator; (7) addl ess on buttermaking.
$12{ }^{9}$ to 10 a.m.- (1) Testing samples of milk. 10 to ream separator and cream separator, and making butter. 2 to 4 p..n.-
(8) Runing the centrifugal cream separator; ( 1 )
Discussion on dairying.

> To enable the faruirevents.
> Cog tas much benefit as as possible from the pamilies thengs of these travelling diuiries, it practiplace to be visited, shoultd arrandividnat, in every 1. For a convenient place of a betorehand:
Fis.
2. For a supply of abouce meeting.


THE HOME-MADE STACKER

```
Moosomin, N. W.T
ROUTE 1.
Moosomin,
Bhitewood
Wolseley,
Indian Head,
Qu'Appelle Station, N. W.' 
McGregof, Man
Portage la Prairie, Man
Austin, Man..
Douglas,
Osk Lalke
Elkhorn,
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Brandon, Man. Reston, Souris,
Hartney,
Napinka,
Oxbow, N. W.'
Deloraine, Man
Morden,
Manitou,
Pilot Mound,
Crystal City, "Man
Killarney,
Boissevain,
Canadian cattle to the British Isles shipment of and passed the special government inspector. There
were 370 head in this ported as suspicious. The cattle, which were good and three-quarters to five pence per pound. It is the same examination, it will induce afloat pas the same examination, it will induce Hon. Mr the grounds 5th :milk. got the se.
every time.

> The following places will be visited by one of the Travelling Dairies, on the dates mentioned :-

Whote mill, (ripened, if practicable); also to be gallons of cream orning of the first day.
4. For the distribution of bills (similar to this, and places of meetings, widely and thoroughly in Tamal.
Filk, of skimmed milk to bring samples of whole teited; ab nut haff a teacupful is plenty for each ample.
importance
In many districts in Manitoba and the Northprofit and success. The soil, the pasturage the fod proft and success, The soil, the pasturage, the fodler crops, and the climatic conditions, as well as all suitable for the production of the finest quality milk, butter, cheese, beef and bacon. By a gstem of mixed farming, the growing of wheat at hereby the farmers may protect themselves from the very serious risk of loss and failure which is inWestern provinces that depends wholly or in the on one crop or on the selling of grain only
I urge the farmers and businessmen generally to vail themselves of the benefits which these traveling dairies are intended to give. The women from neetings.
If you are interested in the welfare and progress of the district where you live, you are hereby inthat it makes the necossary preparations for yonr ocality in good time.

Travelling Dairy Wrort:
The Manitoba Dairy Association has made arrangements to supplement the work done by Prof Robertson's travelling dairies, utilizing the appropriation made b
g dairy wor
 pal points along the Manitoba, Northwestern and as published elsewhin (or above) cover that much before harvest begins. This eaves the Red River Valley and points along the Northerrn Pacific to be supplied by the local Association, and
the following programme has been laid out by the

The Alexandra Centrifugal Cream Separator presented to the Agricultiural Department by Mr. R. A. Lister, the English manufacturer of these machines, for this purpose, will be utilized, along with a complete ounit, consisting of Babcock Tester, maker has been employed to accompany the outfor and the lecturer who will be put in charge for the various routes. A programme similar to that Mr. John Hettle M. P. P. Presidient opted. Association, and whose name has long been identrfied with progressive dairying, will take charge over the Northern Pacific from Wawaneea to Morris. S. IH. Barrie, agent in the Province for successful cheese and butter factories in the Red River Valley, will then take charge at St. Jean, Letellier, Niverville and Dominion City, after Which Wm. Scott, agent of the De Laval Separin the Dominion, will take up the balance of the work from Kildonan to Balmoral.
 Prof. Robertson has promised that the Winnipeg Thg a aris wia be a whole week, and will be and object lessons during the forenoons of the fair and also to test the milk of the varions breeds o

## Butter and Buttermaking.

Mrs. Joseph Yuill, of Carleton Place, sends us he following additional information on the above subject, which she dealt with in our issue of April
"SStting aside a small quantity of ripened cream for future use, would not suit the purpose, for the until it is too highly nipg process keeps going on until it is too highly ripened. I have tried keeping nd I find that fors and a better article than either old cream or butter

I have used six different kinds of ceomers, and find the plain cans the most suitable. First, it is the cheapest; second, it is easier kept clean. It is no easy job to keep a tap clean, and, if you oughness inside the can alongside the glass which is hard to keep clean. And last, but not least, i
there is any sediment in your milt in your cream. Of couse the agents selling these cans will say that the sediment will run of with the skim milk, but it did not do that with me.
got the sediment with the last dregs of cream

At the Wisconsin Experiment Station, recent seeding trials showed that whey was worth from cornmeal and shorts por higs, when for mixing with prices they now command. It behooves those who wish to come out right in these trying times to be
moge considerate in the use of this by-product of
the cheese factory.

Our Common Schools and Farmers.
From the Now England Magazine, March, 189 . The following article paw pric. he Now' England Magazine. It is so mueh to the Canaia especially the rod from the eame conditions os prevail in New England. The remedy suggested appears to be the
chief or only one which will permanently benefit chief or only
"The dimiculty with agriculture is two-fold, farming does not poy, and agriculture is two-fold, is not
The result is that our population The reault is that our population, which one
hundred years ago was ninety per cent. agricultural, is now but little over sixty per cent, such; and the
ratio is decreasing. The national pride in vast citien is an error of judgment. Any one of our metropolitan cities might be reduced one-fourth in
size without loss to productive capital.
Deduct the size without loss to productive capital. Deduct the
dependent and criminal clases of New York, and dependentan bring down your censes of by two hund and
you toun
thousand. The firt great break with barbarism was when land tilling began to create permanent
homes and the home instinct; and the next was homes and the home instinct; and the next was
When each family could have its separate house and
its individual tastes. Any reaction toward the the indiviual tastes, Any reaction toward the effrorts as social reformers should be exercised to prevent such a tendency, If you ask the lower chasser in our ctics why they are there, and why
they endure such pinchings of penury, and if you
fuit her urge on them to accont your help to secure furtther ure on them to accept oury help to secure
a home in the country, you will find as a rule that a home in the country, you will find as a rule that
they cannot endure the loneliness of dissociation.
 fluence altogether; even the tenemente and cellare
are populated largely by our own native-born people. When we come to a consideration of the probiem of capital and labor, and the friction of and Mr. Bellamy we fnd that the worst elbowingis
done in the unfle done in the undifferentiated masses, not by individa mistake to assert that we are living in an are of
individualism ; we have hardly touched the threshold of individual character. It is a question of supreme importance whether American life has
not of late been moving toward the mass, and not toward the man.
I dosire to call attention phaster than by going back to Thomas Jefferson and the foundingoo Democracy
in 1800. It was Jefferson's profound conviction the agricuiture must underlie a republican government ast the basis of prosperity. "The American peo-
ple," he said, "will remain virtuous as long as agriculture is our principal objict. When we get togri-
piled upon one another in large cities, wasin Europe we shail become as corrupt as they." The very key to a possible republic lay, in his judgment, in the tillage of land, as predominant over commerce and
manufactures. In his maturest years he wrote as
 pullics from the great national one down through
all its subordinations, until it ends in the administration of every man's farm by himself, by placing under every one what his own eye may superintend,
that all will be done for the best. What has de stroyed liberty and the rights of man in every gov-
ernment which has ever existed under the sun? The generalizing and concentrating all cares and powers into one body, no matter whether of the autocrats of Russia or France, or of the aristocrats
of a Venetian senate. And I'do believe that if the Almighty has decreed man shall ever be free, the powers respecting himself, so far as he is competent
to them, and delegating only what is beyond his to them, and delegating only what is beyond his
competence," Jefferson would certainly, if allowed
to reappear to survey the American Republic. warn to reappear to survey the American Republic, warn
us that we had, while becoming powerfult as a nation, lost power as a people; that we had gone
far to undermine our ripulicic by forsaking our
felds and becoming "piled upon one another" in flalds and bec
great cities.
But we are at once answered that, however dangerous this may be to republicanism and indi-
vidualism, it is nevertheless a natural driftof events; that farming doen not pay, and no influence can
keep a people at an occupation that is not remunerkeep a peoppe at an occupation that is not remuner-
ative.
cities migh ask the counter-question: Do
cition itities pay? It it proftable, even from a material
point of view, to crowd into municipalities? Do
nost of those most of those who desert the farms prosper in the avenues of trade? Morally and socially, the ex-
change is disastrous for the majority of our young
peong people. Axatistics exhust vitality, and that our cities must
cit steadily fed by an influx from the rural districts.
be ste be steadily fed by an influx from the rural districts. and lost. It is fed to the octopus of vice and
beggary and disease and peneral want. $\begin{aligned} & \text { on a farm } \\ & \text { a failure is seen, while a lad who is lost in the city }\end{aligned}$ a falure is seen, while a lad who is lost in the city
dorps out of sight, and reappears only in the potter's
fiel The city is not a natural product. Its crowds bulk live from hand to mouth. At least one-fourth can be dispensed with economically. The whole
system is false. We mass our people, and then
carr carry food to them at vast expense and waste
The key to prosperity is vot in the distribution o
products but in the distribution of consumer. The key to prosperity is not no the the distribution
products, butin the distribution of consumers. There is a story of some college boys who were
off for a Saturday's outing. They wished to show
their wit and knowledge at the expense of a farmer
whom they met. At last he turned on them:"Very well, gentlemen, now let me ask you one question: I see you have, killed a snipe. Can you tell me
whether that snipe is a bird or a fowl? Will moun mhether that snipe is a bird or a fowl ? Will you
tell me what is the difference between a bird and a tow P" The boys tried in vain to invent some
deflition which should accuratel clavify turkeys, quail, hens, sparcows and coese. Snap-
ping his tinger at their classical loarning, the armer informed them that "a bird takes food to
its young, but a fowl takes its young to the foo Our cities are built on the bird plan; our farms fon on the plan of the fowls. We cover our land with food to the crowded cities; that is, we have our are doinc the pace and our mouths in another. W tion to the turlieys. We are educating, our young and to desert the farms and squeeze into blocks
and to lose their individuality by beoming bita o
the machen gets rich - not on urban life. Not one in a hundred But farming does pays it it is paying; that is, in right hands, with right methods, whole countios
of New England, that were deserted preatically by our own farmers, are taken up by Oanadian French, and they are thriving. I have seon the old Yankee
stoock that came to Oentral New York, up the Mobawk Valley, run out, mainly by Trish people
These. in turn, gave way to Germans, who will doubthlos in a a couve way of generatmans, whelo weit
titles to others. So long as any race holds to old titles to others. So long as any race holds to old
faeshioned culture and method of life, all goos well;
but ty end hy the mider but by and by the new ideas and new methods are
inevitable and then They are unable to readiust themeselyes to the new
orider. But we cannot expect to resurrect the order. But we cannot expect to resurrect the
eighteenith contury. We mast find out our diff-
coly common school education is almot procisely what
it was one hundred years ago, and in no way fitted to the other revolutions in larm life. Our fathers on the farm were producers in the
main for home connsumption. Fach homestead was
expe mainected to be self-sumpporting, or nearly so. Wives
eove
ex Wove, knit, sewed, coorked, dyyed, made soap and
candles ; husbands not only ploughed hut made cana des; husbands not only ploughed, but madd
their own shoes, cut their own fuel, and mended their own simple machinery, as well' as buill their own houses. Each farm raised nearly all that was eaten, worn, or enjoyed. Little was sold; little was
bought. There was swapping of surplus among bought, There was swapping of surplus amone man's private bin. But to-day the farmer everywhere is a trader. In Dakota he raises his trucl for Ohicago, his wheat for London, his corn for
New York. On the other hand, he buys his fuel, lights, clothes, most of his foo fis fings him in and adventurers. The farmer doals in futures as in July. On the old plan the farmer was every Where moderately succesfful. He whe conthe that style of life. Now machinery has elbowed him out
of his pride, skill, and art; and his wife also is leftit without her cratt. He no longer swing his scy the sew and lnit his axe with rhythm, She does not butksaw forever. Shye buys, stockings, and the old
spinning-wheel is an object of curiosity. spinning-wheel is an object of curiosity.
The change involves new needs,
new methods. The farmer who handles mones instead of household material, and who speculates in
crops, crops, as all farmors now do, learns to need ine
horses and carriages, handsome houses and barne, and costly tools. The wife learns to require costly
dresses pianos furniture that is fashionable, literature, and art. Education becomes costly; and
when the children get it, they push off from the farm for the city. A few farmers get rich, exactly the bulk grow poor, and most of them ultimately dwindle away. I can find barely a dozen old fam-
ilies in my own township who "hold on," readjusting themselves to the changes. This is the story universally profitable on such a aystem, Many move west, or move on; lose the home instinct,
and create a migratory sentiment. This is not a
desirable sentiment toincrease. desirable sencime the difleuse:
The is the cure some nostrum in the way of statute Iaw. The secret is that our common school educartion is not adapted to create a race or farmers are educating away from the "arma, and not to
ward them. Emerson says: "We are flred with Whe hope to reform men. After many experiments,
we find that we must begin earlier-at school, we find that we must begin earlier-at school,
That is what we come back to each time that we attempt social amelioration. The solution of the atar problem is not ilood and in the flingers of the laborers. Ther marriage problem, but in a higher sorar education of boys and girls to compretend The farm perplexity is in a peculiar manner dependent upon defective education. So long as the
old order of things existed, the curriculum of common education was satisfactory. The farm boy of mon early part of our century had two sorts of edu-
thation ; one half of it was home training, the other half was from the schools. At home he had mannal
used, and to be proud of his skill; he must hoe his swath, and know the macks of plain farming At At
school all he needed was the tree he got. A peculiarly walented boy orsoneall brains
and was fitted for college. The farm boy only needed to read, to write, and to cipher ; the rest of his eduBut note how total is the change. That part of the boy's education which consisted in skilful useless and vacated. So faxe and other tools is concerned, they can mostly be taught at home. the farming to-day intelligent, interesting, and projuabe. The boys and giris should first of all be
taught the composition of the rocks and soils woith
which they have to deal. This should be comple mented with a good knowledge of plant and animal hife. I suppose that no one could be more
ignorant of these things than the average farmer
He is in no cose taught in the commonel He is in no case taught in the common sohools the that he eats. Geography gives aknowledge of the surface of the earth in general; it points away
from the farm. Geology gives a knowledge of the earth under foot, the farmer's own immediate pro perty, it makes every grain of sand and every
granue of clay interestigy it opens the eyes to
ten thousand things the farmer mut ouch and see. Yt the farmer chust matilen have
geography and not geology No one surely would condemn geography, no one would shut in or cir
cumscribe the farmers interests, but I plead for
cther the other. Goology I would follow with biology
in its forms of zoology and botany, and in its divy
 ake to make farmere. The boy on the farm and
 in and on the soil and his relation to them. He
should understand a cow and a horse in their
ooological relations, and, to some extent
 hings that make a part of the farmer's daily life.
As the schools are, whatever is tanght points to the tore and the city, aud not to the Jarm. A college
professor said to me: "We can do very 1 litlo in
in the way of putting more science into the college ized, and that requires a preliliminary change in the
common schoole. Beore the age of seven or eight,
in welleto-do fanilies where kindergactens are noell-to-do familles, where kindergartens are imsorve. He should learn to see wall and to use all
his senses, After that age books should be used as
aids to abservation, but to a nosigt. to dispense with original
Every child should become an investigator. When this change is made,
and the curriculum is readjusted as suggested, I do not say that you cannot drive our boys away from
the farms into trade and manufacture ; but I do say that, unless a lad is born with a particular bias for something else, he
voill not wish to leave.
So utterly imposible has it been for myself to
in midaren what I call a rational edycation shure my chidren what I caila a rational education,
that I have done what I regret many more do not do or cannot do-have built a laboratory and em-
ployed private titors.
Here they enjoy with a zest ployed privato tutorblo Here they enjoy with a zest
arawing, goology, biology, chemmetry, mathemntict
 studee are followed by a general kowledge of ife
on the globe as well as the history and science of on the globe as well at the history a and science of
human language and though. At this point georesult has been more than satisfactory. They love
the land and the things of the land. 1 am confthe land, and the things of the land. I am eonf--
dent they will never consider land culture inferior to trafflc. Their minds are here because their acquaintances are here. Their souls are with the escape that fatal vacuum which is created by a school system that omits moral culture, -a vacuum and by premature knowledge of sexual impurities. possibe limit, and no bystem of publio schooling (TO BE CONTINUED).

## Explanations Called For.

Under the subject of "Butter and Butter-
making" (by Mrs, Yuill), in the ADvocate for April isth, appears the following sentence, viz: -
 rather startling. Kindly answer in your noxt, and
oblige,
SuBscriser, Truro, N. s.
mRs. YUILL's REPLI,
The statement which $\mathbf{I}$ made in my artiole on
buttermaking, that the impurities of water which a
 Still, it is open to criticism ; for instance, inpurties
in water of a vegetable nature might be eliminated in water of a vegetable nature might be eliminated water which usually affect milk are bacteria. These the cow has no power to separate from water, and
of course, are found in the milk. ISch impuitios of course, are found in the milk, lisach moth are con-
are often found in water from which and
taminated by the soakage from cesspools, outhousem, taminated by th
or barnyards.

QUESTIONS AND ANSWERS.

## Veterinary.

"Quiz" Qa'Appelle:-1, "Please pigs? Does it detract ofrom the nsefulness of the value? Also are round black patches usual on thoroughbred timprouved White Porkshire?; sire und dam registered." pigs is due to some defect in the sperietions of the demtinal sac. If the teeth are loose they should be removed with small forceps. This shoula be done aspecially if the gums are inflamed. It will not or selling purposes. The permanent teeth will appear ing due time, and will likely be healthy and 2. Black qualify. Small blue spots on skin with whto hair, though not desired, are frequently met with in pure $\frac{\text { swine }}{\text { W. A. }}$
A. Dunbar, V. S., Winnipeg. lame mare.
E. J. H, Oarnanf::-"T have a mare that goes Isme on rough ground
Is more than asprain?
We are not good
We are not good at guessing, and without a foller history and description of the case, do not

L. O. Lemizux, Joly, Man, - What is the cause of our cows not cleaning' after calving? The seem strong and healthy, before calving, do not
clean, that then giel hy mil
nothing. What will proventit in future? Retention of the after-birth is very common among cows, The causes are not very well lnown,
as it occurs under every condition of feeding and mariagement. The comnection between the cootal membranes asd the womb of acow arevery strong, process of disunion is very protracted. In such it is nsually expeltid In a partially or wholly
decomposed state. The following are some of the otheralleged causes of retention of the "after-birth" gltisig cola water to dirink immediately after par turition; protracted and severe Iobor, abnormal
adhesion of the womb and "afterbirth." The accident hat been observed to be more frequent in最部 mouldy sand it occurs more frequently in ol cows than in young onew. When the "after birth" is retained twents-"our hours after parturition, the
following drench may be given with advantage: Epsom Eaits, twelve ounces ; nitrate of potass, one
 ail in one quart of hot beer, add half-a-pint of
treacle, and give in one dose. At the same time, tie treace, and give in one dose. At the same time, tie
a wielitht, not exceeding two pounds, to the ex-
truded portion of the eater-ibith." Iknow that are ojections weight is no heavier than that mentioned, it will do to expedite the removal of the foetal membranes When other means have failed, and the cow is be.
coning feverish, the hand should be inserted into thio woint and the membranes carefully separated deal of patience and care, and sliould only be under taken by a person who has some knowledge of the
anatomy of the parts. When the "after-bIrth" has been removed by the hand in a decomposed state carb womb should be syringed with a solution of
carld-carbolic acid, one part to forty of sof water.

## Miscellaneous.

P. OLARK.-" I WRIVE-WELL. wato a drive-well. Can you or any of your readers inform me how to
proceed? Give size of pipe, how protected from frost, and whet sine of poile, how protected from abandon them all. Surroundings low and quick-Either $1 \downarrow$-inch or 14 -inch pipe may be used. The Either ry-inch or 1 tinch pipe may be used. The
only way to protect the pump from frost, is to have
a. houle below the surface of the earth to drain the water from the pump. The drive-well succeeds
best where there is alayer or bed of gravel containing a quantity of water, it alsoog ives gravirly contad satits.
faction in sand, but in most cases will not furnish a very large quantity of water ; say about enough to
supply h house for domestic purposes is about the
limit. gets the water. I might say that it is not dadvisable to try to drive pipe of that size any more than
twenty feet at the outside. In my opinion the best well he could have would be a drilled well, west
4 t -in. or 5 -in. oil-well casing put in till a satisfactory supply of water was obtaned. py in this atisfac-
the surface water is completely shut off,

WM. SHARP, 184 II Iamburg Ave., Toronto.



The track is fey, IfI hala plenty of water, 1 wouth not let them out of the barnyard from fall till spring. There are three ways I can get water; First, Dy deep, which require to be curbed about 6 or 8 feet feet in them, which makes it hard to pump; also,
the valves soon wear out. Second, by cipterns, with eave troughs from the buildings; cisterns they would require to be bricked up before cementing. Third, by digging a well about 240 rods from
the house and barms, where, Ithink, there could be frst-class water, got at less than twenty feet deep, iron pipes through the hight be brought down bo barni, If taps would work well in each place, they would bevery handy, as we would nnt need to g o
out of either house or atable for water-winter summer. Now, as I have never had anything to do with piping in any way, and as you seem to know
all about such things, I would fike you to answer in the first ADVocATE which of the three ways you the size, cost and kind of pipe to be used ; also, how deep they should be put in, how long they, would
be likely to last, and if there is much danger of them filling up or not work king well from any othe gins to rum. Not having levelled to the hill, cannot tell how many feet of fall there is, but am sure there is a goo deal. In the first place, the piping will
be down hill for abonta hundred rods; then it would have to go up hill for about twenty rods, perhaps to the height of twenty feet; then the rest would
slightly down grade; all through clay ground." The drilled well, with pipe inserted to where the
water is obtained, is the only method, and if the water has to be elevated too great a distance to do it by hand, a windmill hhould be erected anco a tank elevated, which wilg ivo water at any point desifed
Eavetroughing and cisterns are in use in some localitities, and when properly constructed, give rair y googaty to brick it hefore good jobit woulh
be necessany third method would be pretty expenenive, as inch
pipe would cost six cents per oot in Tiveron and pipe would cost six cents per foot in Toronto, and
would have to be laid below frost, say two and ahalf or three feet deep. There is a drilled well on the Nichol farm, near Newtonbrook, not far from Mr. K's. This well had been dug 62 feet through
clay 118 feet was then drilled through sand, where water was found in a gravel bed. A windmill was erected; the water supply thus obtained, was
abundant, supplying the needs of a farm containing 350 acres ; a heavy stock is carried.

Wh. Sharp, $15 \pm$ Hamburg Ave., Toronto.
NUMBER OF CUBic FFEET TO A TON OF hay. W. R, Austiv- - " Please inform me through the stack last summer would measure in cubic feet. sit. Good hay. 2nd. Mow-burnt hay?"
The usual estimate is about 500 feet to the ton: impossible to give a general rule, for it will vary all the way from 400 to over 600 feet, according to the burnt hay will weigh conisiderably more to the foot than good hay
The Mammoth Cheese Again Heard From. Through the kindness of the Dairy Commisioner, Ottawa, we have recently received a sample Although the flavor is somewhat stronger than cheese kept under suitable conditions, still the vality is a marvel of excellence, considering the very unfavorable conditions in which it has been placed and the extreme temperature through which
t has passed. The body and texture of the chece have been well preserved. and dioes not appear, as yet, to have entered upon that stage of decay a The mammooth cheese called the Canadian Mite last summer. It was made at one, at chicago inion Experimental Dairy Stations, in DomCounty, Ont., in September, 1892. It stood in the Vast Agricultural Building, on the World's Fair Grounds, at Chicago, from May until November,
1883. As the building had a glass roof, the temper ature was often as high as 950 degrees inside.
The mammoth cheese was afterwards shipped to and April of the present year. Excepting a few the sample sent to Canada. This sample wilar to the eample sent mo calde of the big cheese was and the
from below the nid
quality is still excentionally fine when we quality is still exceptionally fine, when we consider
its age and the very unsuitable conditions to which
it has been exposed putation of Canadian cheese, in possessing re keeping qualitities, and utceess, in perftessessing good the slander
on an important industry circultated by on an important industry, circulated by an un-
scrupulous cheese dealer, to the affect that it was The exhibition of the mammoth cheese at the
World's Fair was indeed a great and to the very end of its career it has done ex Cermers of Canada, by drawing the the antention of
fhe world to the magnificient possibilites ane world to the magniticient possibilitities of of Can
adan agricultural resources, and to her capabilities

A Study in Churftity.
Wehear so much of late in regard to the great los caused by the imperfect separation of cream from the milk, as revealed by means of the Babcock test, tha ive point out oss which the same unerring detec ing to the report of the travelling dairies. we find hat the average of butterfat in the samples of buttermilk which were brought in to be tested by farmers was over one per cente, while individua samples went even higher. Nor is it the private dairyman alone who is losing money in this way or by examining the buttermilk at creameries and
large dairies, the same tale is told, though in a less marked degree.
Experimentital past year Prof. Wallace, of the Iowa attention to this loss of fat in buttermili, with a fiew to ascertaining the cause and finding out Whether this loss can be avoided, and if so, the contates that during the past summer a large number of samples of buttermilit from both creameries and was the amount of fat found to be as low as tho. enths of one per cent, and one sample tested as high as seven and two.tenthhs per cent, The loss by
farmers and in private dairies was found to be farmers and in private dairles was found to be
much larger than that from creameries, but still it was found as high as two and a-halif per cent, in ome factories, Mrom careful investigation it was stimated that a factory which received $10,000 \mathrm{lbs}$.
of mill, or its equivalent in cream. ween $\$ 5$ and 88 per day, while some of the lat be factories during the greatest flow of mill would
lose from $\$ 15$ to $\$ 30$ daily from suftering the fat to ose from $\$ 15$ to $\$ 30$ daily from suffering the fat to vious experiment it iss thought that the depreof ripenese of the cream has a decided relation to the proportions of butterfat lost in the buttermilk. To deciae this point, and at the same time to prove
the practibility of a chemical test for the right degree of acidity, Prof. Wallace had recourse to "titration," a methoo used in chemistry to tell the strength of acids by means of a standard alkali so-
lution
His work in this direction showed that the degree of acidity had a very marked effect tupon the complete separation of the butter globules; that the range of this correct degree was very
slight, or that both insuffleient ripening and overcent. of hatter in same effect of increasing the per Prof. Wallace closes with the
mary :-"While this report covers following sum churnings, and represents covers a great many continue investigations in this line during the coming year, until we secure results which are fairly
decisive. The result of our work so far seems to indicated that the acidity of the cream bears a decided relation to the loss of fat in churning, and a
test of this kind for acidity cannot but be of contest of this kind tor acidity cannot but be of con-
siderable help to the butter-maker, even though he
has had years of experience."

## Leguminous Plants.

A bulletin recently issued by the United States Department of Agriculture, on LLeguminous Plants
for Green Manuring and for Feeding, contains some exceedingly instructive information on this important subject. It concludes with the following sum of year, when many are wusy plowing in this time crop on their summerfallows:
one suitable to cultivate in Manitoba and soan the only oats (drilled cross ways), they can be cut on the green side with the binder, tied in small sheaves so as to dry through, and fed either with or withou best feeds possible. for all stock, especially milk cows The blue-lupin grows wild in some sections o Manitoba, but is a woody, bushy plant, and although cultiver
if it (1) Green manuring improves the
perties of the soil by making the soil more porous and adding to its supply of humus. It bripgs up and demosits it noar form deep down in the soil, used by plants feeding near the surface. grass and theen manuring with buckwheat, Hungarian grass and other non-leguminous plants, adds nothing
practically to the soil which was not there before except a mass of vegetable matter which decays and lupines, etc. (leguminous crops), $\begin{aligned} & \text { actually } \\ & \text { enriche }\end{aligned}$ the soil in nitrogen drawn from the air. These store up the nitrogen of the air as they grow, and when plowed under, give it up to the soil and to
future crops. It is the cheapest means of manuring the soil with nitrogen. for food. By feeding the crops of clover, cowpea, etc., only about one-fourth of the fertilizing mater-
ials of the crop is lost, if the manure is properly cared
for for. As the nitrosen the manure is properly cared source of nitrogen for plants, so it is the cheapest source of protein (nitrogen) for animals. The legum-
inous crop is best utilized inous crop is best utilized when it is fed out on
the farm, and the manure saved and applied to the
soil. The greatest profit is thus secured, and nearly
(5) For remownting worn or barren soils, and for





 yard maduct, Looss from sarrace washing, leach-
ings, termentation and decar should be guarcded
 (n) The esstem of foilining or feediding green crops. in the barn in place of pasturage, enableas larger
 tremely valaable.
(8ch Hay from leguminous crops is about twice as riec in protein as hay from grasesed In the one
case this protein (nitrogen is obtained very hargely case ens protein nitrogen is otained very yargely
 Yied larger crops of hay to the acore than grassees. especially protein, is several times larger with especiain props.
leguminous crop
and soia bean furnishes an the seed of the cowpea and soja bean furnishes an extremely rich, concen-
trated feed, which can be ground and fed in place trated feed, Which can be ground and fed in place ing may be fed as coarse fodder, for it is richer (10) Grow more leguminouns crops. They furnish
the cheapest food for stock and the cheapest the cheapest food for stock and the cheapest
manure for the soil They do this because they
obtain from the air o substance necessary for plants and animals alike, which oosts, in the form of fertilizers and feeding stuffis, from fifteen to
twenty-five cents a pound.

## Professor Wallace's Report-I.

 The report which Professor Robert Wallace, of Edinburgh University, has just made upon the resources of the prairie regions of Canada is one of garding that section of the Dominion. It is based upon experiences gained during a tour from Whinnipeg westward, last autumn, and its value is much enhanced by the fact that the Professo visited Oanada in 1879 as a member of the tenantfarmer delegation of that year. Naturally, he see many changes.Winniper for
Winnipeg, for instance, was fourteen years ago a
city of only 5,000 people, and few houses had any city of only 5,000 people, and few houses had any of stability. There was no attempt at road-making, and no pavements in even the principa streets; while the Professor recalls the sight of the tures, the Red River wond, which had hopelessl stuck in the mud in Main whem site of the Manitoba Hotel How different a ture does the city now present
Now the city has an unmistakable claim to be 000,000 sterling, and, according to 219 inhabitants. The rate of tazation is a little other taxes. The main buildings-which include an hospital, medical college, free schools, high schools, and a university-can be fairly described city, and the . The schools are supported by the tions, to which the Government gives small grants. ree schools. The facilities for transit include a qust perfect system of electric cars, which fre quently travel
the future for manitoba wheat.
Fourteen years ago Professor Wallace estimated
the cost of Manitoba wheat laid down in Liverool at 26 s . per quarter, and it was then believed land wheat could not be profitably grown in Eng. at 24s. to 25 s. a quarter, and it is still grown in from the Northwest, though not as yet in any onsiderable quantities. The day of Northwest reasons which Professor Wallace explains thus:It is a fact well known to millers that the wheat eye of the British farmer, accustomed to large plump grain, it looks small and insignificant. The grains are extremely hard and horn-like, and the exceptionally high degree that peculiar quality ough has such tenacit baker in working it is difficult to break, and when undergoing the process of cooking it resists the
expansion of the gases forming in the bread with expansion of the gases forming in the bread with
such success that the product is left light and open.
A barrel of Manitoba wheat, 196 lbs. in weight,
will produce eighty-eight loaves of 4 lbs. each.

Soft wheat, on the other hand, such as that grown
in Oregon, will give from 35 lbs . to 40 lbs . les bread per barrel. It will now be easily recognized
why millers appreciate Manitoba wheat, and find it economical to mix with the flour produced b
wheat grown in other I WHERE THE BEST WHEAT
Wheat of this description is Growi in almost all parts of the Northwest; but yrit is in that the best wheat-growing land is, Professor form the lowest regions, ranging from 789 feet Winnipeg, upwards, as the ascent of the rivers is made, but lower by about 200 to 300 feet than the It is on these elevated parts that the frost is found example, the range of the Pembina Mountains Swan Lake, Somerset and Alta districts are al
most liable to suffer. The soil of the valle most liable to suffer. The soil of the valleys is ground, and in this way is not only more suitable for wheat growing,-being denser, closer, and more
retentive of water-but altogether better suited etentive of water-crut ait lagether better suited hard, flinty wheat, for which Manitobse is so famous. To those who are not acquainted with the character of the land in this Northern region, it is not uncommon to find the belief prevalent without an obstacle as far as the pye can level land all equally suited to the growth of wheat, if there were settiers in sufficient numbers to occupy it. is country unquestionable looks flat, and the view ence in level from point to point throughout its eytent is considerable, -as is also the variety of in results attained in wheat growing are very
and in results attained in wheat growing are very a splendid crop of wheat, which was sown on May
$20 t h$ and took only ninety days to ripen, and gave 20th and took only ninety days to ripen, and gave
an average yield of thirty-five bushels to the acre. an average yield of thirty-ilve bushels to the acre,
But this record was beaten by another across the
Red River from St. Jeam in which a crop of wheat, Red River from St. Jeanu in which a crop of wheat,
classed as No. 1 hard, ripened in eighty-two days As a rule, however, judging from the experience of the ten years previous to 1898 , it talkes about 120 to
185 days for wheat to ripen in Manitobs. EREIGHT RATES.
Dwelling upon the all-important gubject of rail-
way freight chatges ont mheat,'Professor Wallace notes that the reduced rates inaugurated this yeere on the Oanadian Pacific Railway from western will make a difference of about $\$ 300,000$ (eay,
e 60,000 ) to the farmers of Manitoba, on the basis of $\pm 60,000)$ to the farmers of Manitoba,
last year's crop; and be it noted that
Wheat is thus carried by the Oanadian Paciflc Railway at the same freight charges about 100 noiles further than wheat going by other lines from ine with the States.

## Western Steer Feeding,

BY RICHARD GIBSON, DELAWARE, ONT
I have lately seen the way cattle are handled by the western feeders; at one farm I found 400 steers through centre of yard, the smaller steers being toether; attached to each was a deep, open shed, lot could lie in cold nights or stormy days; it is needless to say they were all dehorned. Water
troughs in this shed never froze, and self-feeding troughs in this shed never froze, and self-feeding bolding clover hay were the appurtenances thereof Again, there were racks all around the yard and
through the centre where corn and bran could be fed through the centre where corn and bran could be fea fine days, and night and morning
These steers were put up to feed in October, and had gained over 400 pounds per h
It seemed a careless way of feeding, with corn and hay before them ant the time; still, ram more compete with the western feeder, and that should there be a reciprocity treaty with the United States up western-fed beef.
What astonished me most was the ease with
which these steers were fed corn and bran in selffeeding troughs, to be had for the trouble of walkin The stalks were loaded in field into waggons and hauled direct to yards, two men doing the feeding In Canada, with our root pulping, grain grinding, chaff cutting, mixing and feeding, cleaning out the two were accomplishing west, and the results
equally as good. I have since ascertained that the bunch to which I refer have been sold. I figure manure. Now, here comes the rub: What is that manure worth? To the average Wisconsin farmer, perhaps not much, though they certainly do appre-
ciate that essential to good farming more than their and England steers are often fed to convert certain crops into manure. We expect a profit on the feed-
ing; that is, we expect to sell to ourselves the coarse
 is a direot pront, but the indireot is one of perhap greater importance; that is, as manure factorie
converting the coarse grains and fodder into pabulum for future orops; and just as long as well cting well on all soils not drowned with water so long will steers be fed. Fortunately for western feeders, comngrows so naturaily, can be produced so
cheaply, and being highly carbonaceous, the crop takes but little out of the soil, hence can be grown often on samie field. Moreover, it is such capital
feed for cold weather, and answers its purpose so feed for cold weather, and answers its purpose so
cheaply and well, that the question is scarcely ever raised as to whether other feeds might be adyan
tageously fed with it; and while it may be neces sary in many parts of the continent to consider
feeds from both a manurial and feeding standpoint, such will not occur for many years within the question is becoming more serious every year-how
to keep up the fertility of the soil? it may be asked, why bother with feeding cattle for the
manure, when one can buy artifial manure so cheaply and so scientifically mixed. The reply is,
that it is by no means certain in its results, its value depending in a great measure upon the in its effects, soon over with ; it is useful to the prices for his produce ; but for the farm proper, place of well-made barn manure made by animals
when fed on nifrogenous foods, such as peas, oats linseed and cotton cakes, The two latter have
never taken the place in America amongst the favorite feeds that they deserve, nor occupy the
same position as in England. So valuable are they same position as in England. So valuable are they
reganded there that a tenant farmer leaving his
ecoupancy gets paid I was rather astonished to learn that it paid to the latter was worth 25 conts per seventy pounds. moke a more balanced ration, but where that was Another cause of wonder to me was the loose state of the bowels of the steers. Had I not seen the bright length, and the care bestowed upon it by the animols lioking themselves, I should have thought ence of some irritating substance, and, therefore, food. In Oanada we can make beef at profit, but it must be at high pressure, feeding right from birth, and turn off at eighteen months to two years, and
could the generous feeding steer of old still be could the generous feeding steer of old still be pur-
chased, we could feed at is profti, even in these
deye days of low prices. The steers of thirty years ago are to be seen no more. It was hoped that the
Scotch Shorthorm would exert an fnfluence for great good. As show cattle, they are small and
neat, but where are the steers? I believe they are getting commoner yeariy.
In addition to the steers, there is another
element of proflt in connection with the feeding element of profit in connection with the feeding ger, e perfect successs; as a utilizer of waste, he otands without an rival; but as a flrst-olass bacon conformation or the food marufacture of that ohoice side meat styled breakfast bacon.
Iently understood when to expect a ration and never knew untill I saw them following steers why Whey flopped. their ears. It is to protect their eyed What cute oreatures. Here I've been saying to hog in the Poland Ohina for your puypose of conwanting they into pork: but there is something
viniah; if you could only breed them with priek eare, what en improrement it ness, and eviden

## Dry Food for Chicks.

Dough is objectionable as food for young chick for two reasons: First, it contains too much water, water in the are thus forced to swailow more Second, there will be a portion left over, which is liable to ferment, thus leading to disease, the gap worm being one of the ills to consider. Dry food until they are thirty-six hours old, and then rolled oats or oatmeal may be given every two hours, only mashed potatoes may be added by way of variety as soon as they can eat it, whole wheat and cracked corn may be given. At this stage,three times eday remain over. It is better for the chicks to be un-
derfed than overfed. If they have a grass plat which to exercise, they will find many substances
for use, and will grow rapidly, if kept dry and free for use, and
from lice.

## Away With the "Dunghill,"

The Editor of the "Farm Poultry Monthly" thus describes a recent visit to One packing-houses of Kansas Clity :thonsand to thonsand to six thoosand head of chickens a day; it Would pay you to see their places you would get some
interesting facts," wrote Mr. Hawk, of Kansas City, when we were considering the advisability of a trip over the pages of the Midland Poulliry Journal (of
Kansas dity), we came upon an advertisement of Kansas dity) we came upon an advertisement of
Messrs. Aimour \& Co. urging farme to Messrs. $A$ Armour $\&$ Co., urging farmers to get
thoroughbred $\frac{W}{W}$ yandotite, Plymouth Rock, or
or Indian Game mates to improve the quality of their poultry. "That, certainly, is unique," we thought, it. Business men are not, as a rule, paying sidver tising bills without there being reasonayble gro
for expecting return in the shape of profle
Armour \& Co. have added poultry dressing shipping to their beet, muatton, and pork packing
and shipping. One day last fall there can slaughter houses, among a great many other coops of chickens, several coops containing "culls" from tions were given to thave that lot kept together and by themselves, so that they might be compared of the receipts consisted When whesed and ar-
ranged for comparison, it was easy to see that the ranged for comparison, it was easy to see that the
purebred W Wandottes were far superior in plump ness, follness of breast, smoth, fair slin, yellow
legs, -In fact, that it was a far better average lo of dressed poultry than the common stock. Mr.
Armour's attention was called to the digplay, and Armour's aftention was called to the display, and pack five cases, of one hundred pounds each, ship
ont of themt to efich of five comnission houses at different point in the Rast, and handidim a special
report of the returns-also reporting prices returned report of the returns-also reporting prices returned
on commmon chickens sent to same places the same day. When the returns came in it was found the and the price was Yhree cents a pound more than for the common chickens.
Armour \& Oo. are killing three thousand to six thousand heed, a day-six to to tons. Oalling it an average of eight tons, three cents more a pound
makes a difference of 4480 a day -a hundred and forty- P our thonsand dollars a year. Is it any yonder that they
If tit is worth the while of Armour \& Oo. to pay tarmers, how much more it is worth to the fore the to heed that advice and improve the quality o the pockets of the farmers it it a year goos into mieston, as small per cent. for filling their com packing and shipping, that. Armour \& Oo get If Armour \& Co. get but eight cents a pound for the a hamon or stuven cente a pound for it it while if they
get eleven cents a pound for the is A No 1 , loy get eleven cents a pound for the "A No. 1 " lot, concs for it. It costs as much, and takes as long the expense of handling (dressing, packing and shipping) is the same. If Armour so (o. get three
cents a pound more for the good sfuft, they get their cents a pound more for the good stuff, they get their farmer gete on the fill third more more. It olt osts him no
fare to hatch and raise good stock than it does to hatch and raise scrubs, and he will get three cents probably thirty-three and a third per cent.) more a It was worth the cost (and fatigue!) of our journey to get that one object lesson.
The point would be better understood if one is about 300,000 pounds (a hundred and foom, where dressed poultry and game, the good stuff care fully wrapped in paper and packed in boores ready
for shipping. Each box has stenciled on it the kind ard suapity. of the contents ; as, for example, "40 and quaitity of the contents, as, for example, "4.",
broiler chicks, 11 lbs." " 30 roasiec chicks, 34 lbs."
" 2 fo
 carload of lean," skinny things, piled up. "What
are those? ?" we asked. "Those are 'soupers;' three or four cents a pound for those,", soaid ours ' huree
Now, it cost as much to coop and send in those lean "soupers"as it did to coopand send in those "A No. I"
Yrandottes and it takes just as long to dress, pacte and ship them. The farmer gets almost $\&$ Co. get hardly enough for them to pay formand hand
ling. After seeing that great pile of wiunghill ling. After seeing that great pile of "dunghill
soupers," we could well understand why Armour \&
ond Fortuanatelv, the writer had hisir heavy lister on,
else he would bave invested hin a severe cold, so else he would bave invested in a severe colld, so
many interesting things attracted us in that im mense cold-storage room, where the thermometer
varies little from six degrees above tero the around. There were stacks and stacks of spareribs,
tenderloins, etce, piled up like cord-wood : long rows of boxes. of piled up like cord-wood; long
broiler chick to the hut all kids, from the of every class, including frogs' legs, frozen un in buckets of water. It was all very interesting; but
the most interesting (must valuable) thing was that

pounds the latter three times as much-and it coste just as much to hatch, raise, feed, coop, dress, pack
not ship a mean "three cent souper" as it "A No. 1" theroughbred. He would be duill, indeed, who co
which would pay him the best to raise."
Chatty Stock Letter from the States.
prom our chichao correspondent
Top cattle prices, $\$ 4.40$, being 355 c . lower than a best corn-fed steers sold at $\$ 6.00$; "stillers" $\$ 5.40$, and heifers, 84.80 . Top hogs, 85.00 , being 35c. lower months ago. Ton sheep (shorn) avwer than wwelve $\$ 1.85$, being inc, higher than a fortnight since, and aboul 40c. lower than at the corresponding time Best draught horses, \%zoo, being 835 lower than a againt \$85 to $\$ 110$ a year ago Wheart 57tc.,
 a year ago., Mess pork, 811.85 , against 20.75 a year
ago. LLard, $\$ 8.87$, against $\$ 10.45$ during the boom ago. Lard, $\$ 0.87$, , against $\$ 10.45$ during the boom
twoive months since. The beef cattle market is working along very unsatisfactorily to owners of thoroughly ripe
beeves. The $1,000 \mathrm{lb}$, and $1,100 \mathrm{lb}$, steers are selling beeves. The 1,000 lb, and 1,100 1b. steers are selling at about the same notch- 84.00 . The distillery that are not forced to market, and that indicates a belief that better markets are in prospect. Recently arge shipments of beef steers and bulls have been Reemer \& B. The cattle exporters are complaining quite bitterly about the low prices abroad, and say they are losing some good money. The dressed
beef business is steadily crowding out the live stock shippers. Dave Waixel, son of Isaac Waixel, has quit the cattle trade and gone into the livery business. Louis Regenstein, formerly of the old firm of cattle to the engraving business with some nephews. The United Dressed Beef Co., of New York, has ive cattle the interests of a number of former In the hog situation there is no remarkable What perplexed to llnow what to look fore some thought for a while that they had prices well on the road to 84.00 ; but latterly the supplies have been farmers were never so saving of their pigs as they are this spring, but for all that, there does not seem do a very large surplus anywhere in the country. for the general business depression, hogs would now for the generall business depression,
have been selling for $\$ 6.00$ @ $\$ 7.00$.
sheep receipts are on the decrease, and the market is consequently in healthier tone. The buoyancy of six weeks ano. The great bulk of tike "crop" of fed Western sheep is in, and the runs of exas and other range sheep are belated on account of a scarcity of grass. Latest reports, however,
point to good rains and fine grass nearly where, and sheep will soon begin to gain in flesh The writer has spent more than hall his life, or is years, on this market, and this year (A.D. 1894) actually outsell wooled hee ever saw shorn sheep quality. It indicates a queer state of affairs when good wool is not considered worth the cutting and caring for. The time must come, and soon, when
this will change. Texas was literally fon, market a year aco this time with flooding the sheep, selling at $\$ 3.25$ @ $@$ \$4.40. So far this year she has sent forward almost no grass sheep, but
will have will have a host of them a little later. here, having returned from the Eastern seabourd where he went to see some of his sheep safely off He shipped some from Montreal. The ocean freight on sheep is about $\$ 1.50$ per head. He made con-
tracts at Montreal because the tion brought a lot more boats to that port than could get loads, so they were willing to cut rates a
little Mr. Gould is shipping 120 to 130 lb . fed and shorn Mississipi River during the high prices, at $\$ 4.75$ per 100 ITs.
The
try by decreasing indirectly affects the meat indus in operation. The late trade depression hactories strated that it is the working man who must be The horse market is improving thouch the plug are being sold at very low flgures. The Chicago barns and office buildings to iting up additional growing horse business. Electric light sales of
Coach and Hackney horses have proven satisfactory
The chinch bug has been the cause of much loss
o the farmers of Kansas and other Western States. Many remedies have been tested, but none have
been so effective as that discovered by Preme of the University of Kansas. This remedy Consist buss. Bugs an infectious disease among the chinch
disease are placed in been infected with the otherse are placed in the fields, and in turn infect
others. So sucessful has this treatment that we are informed that in some counties people
are imployed to make a business of applying the


THE STORY
A Curate's Temptation.
The Rev. Oowala Camplon sat, deep in thought, in a simall



 man entored quietis $\mathrm{y}_{\text {s }}$ spak but his lips refued their office.


her :" know," saad the olergyman, saily. "May I go and see Cartainy, but do not arcite her.
 man, he went upstarra

 wil got away from this dreadroi
 14. "You masnt bother yoursielt, dearest; wo shall do splendid-

"Roo meent, putill on as bbest wo con" Mou know you told me geaterday you did not know what to your some, , you tor

"But, Oswald -" ". Thornton sala you were not to be



 Woide feoertried his room and sat dow at the table. Then
he proceeded to turn out his pockets. He tound a solitary


 impecuniosity and IJfortye touse tiaent signs of its owner
 Dracord He obtained his degrees with honors, and then ha
decied



 that the brightaned last lyeve ond enobled by their rolizious work,










Wearily and with flagging footsteps Campion took his
and










vory busy. Can you state your


 Camplon followed hif conduator, and was ushered into a


 $\frac{m}{\text { ministern }}$ present would not willingly disturb you; I can call some other




 precious and coan rivo bo rocovered. Weste wime that is so




 his hire." that holy text tis too oftern made an exacoes for
















 oweve had been fatal, he just oauyht silght of the old gen


 to be continued.
The Land of Used-to-Be.
by James whitcomb rleky. Beyond the purple, hazy trees



A land enchanted-such as swung



A land where musio ever girds And sows all sound with such sweet words









## THE QUIET HOUR.




 Riee from your dreams of the future,


 Is the enemy marching tor bol hear

 A. A. Proctire.

## Manliness and Christianity

Is Ohristianity opposed to manliness? Most seem to suppose that when a man accepts Ohrist and His Gospel he is to become a poor, miserable
weakling, without backbone or bravery; a nerve
 mistake than to surpose that a sallow-viseged dyspetic, with a morbid solemnity of manner, is more acceptable to dourist than a bright, true
hearted athletic fellow, whose very sport is consecrated by a manly, muscular Christianity.
The Ohristian Jife is no dark senuly.
The Ohristian life is no dark sepulahral ex-
istence; it is full of buoyancy, freshness and vigor. istence ; it is full of buoyancy, freshness and vigor.
"They that wait upon the Lord shall renew their strength ; thay shall mount up with wings as
eagles ; they shall run, and not be weary; and they Bhall walk and not faint
We must rid ourselves of the erroneous idee think for himself, and that he bids farewell to all secular literature, music, and art. The fact is, that
no man is so well able to enjoy life, and to no man is so well able to enjoy life and to
appreciate its beaties and blessings, as a thoroughgoing and whole-hearted Ohristian.

## Energetic Courage.

There are certain conditions of affairs in whioh a man is bound to speak out and be ant gonistic-
when conformity is not only a weakness but a sin Ghen conformity is not only a weakness buta sin. sistance ; they cannot be wept down, but mutt be be ttled down. All the great reformers and martyri Were antagonistic men-enemies to falsohood and evi-doing. It is the strong and courageous whi leave no trace behind them; while the life of a single upright and energetic man is like a track of
light. In a righteous cause, he stands upon his courage as upon a granite bocock; and, like David, hough a host be encamped against him - " Stand ast in the faith; quit you like men; be strong."miles.

Christianity in Business.
Thare are many Ohristians who, in the afflic tions, are thoroughy submissive. Their trial
make them better. They bow before God when He touches their hearts, they say and feel that He does all things well, But take these same men, and trouble them in their business, and where is their
Christian submission then? Apparently, they are Christian submission then? Apparently, they are
no better than infidels. They themselves to yield their wills to God in their busi ness affairs ; afflictions there cause them, as it seems, to grow worse and worse all the time. day stuffed full of religious exercises, will make a good Pharisee, but a poor Ohristian. Many people seem to think Sunday is a sponge with which to
wipe out the sins of the week. Now, God's altar stands from Sunday to Sunday, and the seventh day is no more for religion than any other. It is for rest. The whole seven are for
of them for rest. $-[H$. W. Weecher.

Want of Self-Knowledge.
Half the evil in this world comes from people not knowing what they do cike, not deinberate y joy, All people enjoy giving away money, for
instance; they dont $t$ know that thay rather think
they they like keeping it, and they do keep it under this
false impression, often to their great discomfort. Everybody likes, to do good, but not one in a
hundred finds this out.- Ruskin.

## Failures.

The only real failures that a man makes of his strive at all, or to follow unworthy aims and to
 strive for what is base or paltry, 竍 sen, whether
he succeed in his purpose or not, his true failure is
accomplished, for he is traveling on a downward acomplished, for he is traveling on a downward
road. But, as long as he looks upward and pushes
onward, as long as his intentions are good and his onward, as long as his intentions are good, and his
endeavors brave, he cannot wholly fail, though he may not reach that which he so eagerly desires.

MINNIE MAY'S DEPARTMENT How to Keep Friends.

## Y MARY R. FREQUSON, BMTH's FALLS, ONT:


"And keep thy friend under thy own life's key" so says Sharespeare, but probably many of us find
it much harder to keep our friends than the it much harder to keep our friends than the poet
thought when he penned these words years thought when he penned these words years ago,
and it seems almost futile to attempt to lay down any special theory or plan, for, in dealing with this
question, only very practical methods muist be used to gain the desired end.
easy gone." A smiling face and pleasant appear, ance may attract, , but If requires more than thesear- to keep friends through cloud and sunstine, happiness growth of friendship, something akin to Jonah's gnurd, but when the strong rayy of misfortune, adversity or sickness appear, where are these
friends? Alas I like the gourd, they have vanished from sight, and only a void in the heart of the
afficicted or bereaved one marks the spot where once
 life, realize the full imporvance of the meaning of
that word P Is it a name to be given to every that word is is it name to be given to every
casual acquaintance poon wo rightlo distinguish
between friend and acquaintance, or do we confuse the individuals as well as the words? Very often
the this is the case, and I believe it to be one reason
we find it diffoult to keep our so-called friende. We cannnt choose our relations, buit we have full liberty to select our friends, and may we be
guided wisely alway, remembering that wiue guided wisely alwaye, remembering that "true
worth is in being, not seeming, It is a very important matter, especially in youth, morally pure, How many young people, just merg. ing inv manhood or womanhood place someone in zim, perhaps more firmly than in themselves ony to find by some unforseen circumstance that
the friend they surrounded with a halo of goodnes and truth, and almost daollyed, Ilved oniy in thei and best feelings receive, inflinite harm is is done and injury inflicted, which time alone can heal.
The true basis of firm friendabip is three-fo sleting of mutual love, mutual respect, and mutual necessany element perhaps the last is not the leas! thoughtlessness or impatience, we utter words that almost as soon as they are spoken, we would give slight, we give vent to our outraged feelings, which, had we the forbearance to restrain, would bind our Iriend tous with a still stronger tle of loye and respec There is another element we find necessary to
exercise in our intercourse with our friends, that is -falth in them. Once allow ourselves to doubt their good intentions, or put our own construction on thelr good actions, thinking they are
just doing kind acts to further their own just painglarity, we will And ourselven ind, or to unenviable frame of mind. No doubt we pride our selves that we can see deeper than others, and so for get "to honor them with truth, if not with praise. us by our friends should be regaried ase escred trust Never be guilty, on any account, and espeefilly for
the mere love of gosip, of breaking the imposed trust, but guard it as you would your friend's purse (and, indeed, upon it rest alf the others) is sincerity is there anything so disastrous to our friendship binds friends together, as to find that our suppose friend is insincere? With what pain we muirmur,
So then, flrst, if we wigh to keep our friends, let $u$,
be what we expect theme to be-aincereinallwedo ind bey, Doubtless, this is hard, but the constant adapta. tions of action to the right fintention will win the day Divine igain, remembrance and practice of the they should do unto you," and "Bear one another" burdens," are sure means of retaining our friends bering that, after all, the members of the grea uuman ramily are very much alike in their sensi-
 There is a wise old saving: " murder to the family of the man wbo mas been hung for a like crime, "So, in conversation, keep ail
far as possible from those subjects you know will rar as possible from those subjecta you know will
wound the feelings and lay bare the family sleeleton. Where can we find a higher type of ideal friendship than that expressed by the poet, Tennyson, in
his "In Memoriam," dedicated to his dend He ifves us a glimpee of what we ourselves should be in we would have the friend of our vouth life-
long friends, and climb with us the "altar-stairs of ife." As we pass from youth to maturer age, if "changes and chances of this mortal life ?" As Mise Procter writes:-
shall know by the gleam and the glitter

Shine trie heatro, , roreverj;
And bees the cleansis fire,
And the furnace of living pain.

## TNCLE TOM'S DEPARTMENT

## My Dear Nelparws and Niecies:-

All too soon has May's prophecy been verifled. departed, we joyfully greet the coming of the "Peerless Goddess of the year." To those of my boys and girls who go to school even this lovely month will pass too slowly, because they are look-
ing forward to the summer holidays and ing forventing day seems, ohI so hong. To talk of this
int delightful time but makes the longing greater, and,
as the realization is yet a few weeks distant, we as the realization is
will leave the subject

- I promised to tell
when more appropriately than now legends, and confine myself to two or three, lest the editor grumble at my taking up too much space. It is said that all the flowers were growing in a beautiful garden, passed among them each flower "bent on its lowly stalk" $^{\prime \prime}$; but, as the legend says :-
"The lily was vain of her beauty,
And as His step drew near,
Stood गroidl

The Master gased on it kally.
In Mis gave grier gathering ilo
Tilt theliy ber
Tin the lily bent bufore Hing
The lowilest of the
The lowiest of the low,
And the lear hat tell on is petals,
As sady Ho turned awar;
As sadily Ho turned away polals,
May bo found a gliterig dow drop
In tho jily's hoart to-day,?
The moral in the above legend is self-evident, favorite than the "little
fower with eye of blue,
the Forget-me-not, and
of it many legend of it many legends and you two of them.
One day in Germany Ome day in Germany taking a farewell wall
with his ladylove, when, with his lady love, when,
passing by a swiftly,
flowing stream, she sawn growing in the water a pretty flower, and re-
quested him to getit for quested him to get it for
her In trying to grasp
it, he lost his footing and fell into the water,
but before being swept away he manged to her, and his last words were, "Parget me not!" since borne that name When to flowers so beautiful There came a little blueejed Ant timaly it came ; It sidd, gawing at His face Yet with a tender grace:
Dear Lor, the name Thou Alaplt meve forgot."
The Father kindily looked on And asid, "Forget Me not." The June roses have not yetstarted to bloom,
but we have many other
beautiful sole us during their console us during their absence. I must tell you what road lay near a river which day recently. Our steep and thickly-wooded banks, and although we hat we caught a glimpse of the bright, sparkling water. The trees on either side of us bent over and ormed a bower of leaves to protect us from the all around us. Returning in the evening, the song of the whip-poor-will added to our pleasures, and I enjoyed myself so much I was almost sorry when I One of my boys wrote me some time ago and o to school, and is now preparing to enter the ormal School. Well done, Harry! you are made of good material, and are sure to get along; I admire like to know what place you will occupy ten years hence. If Uncle Tom is a true prophet, it will not be
a lowly one. y one.
Ing until almost the last day and now ing am ard writto hasten, but you will soon hear again from obliged P S. Uncle Tom. P. S.-Uncle Tom proposes to hold a Word Com-
petition, and trusts it will prove interesting to the nephews and nicces. A prize of $\$ 2.00$ will be given from the lest and most correct list of words formed Farmer's AdVocate, all lists to be in our office by
July 3rd July 3rd.

1. Wri
2. Noite only on one side of the paper.
3. Notter to be used oftener in the same word


THE DEATd OF MARK ANTONY.
last bitter stroke of misfortune. Why should he longer live? He commands his trusty servant, Enos, to thrust him through; but he, to escape that painful
duty, falls upon his sword and dies at his master's feet. Thereupon Antony inflicts the fatal blow upon sends, begging him to come to her in the monument He is instantly carried thither, but, as she cannot descend, lest Cosar's minions take her, it was necesthis she and her two women, with the preatest diffl culty, accomplished. Here Antony died in her arms, shortly to be joined in the spirit world by her whose love undid him. The spirit of this mov ing scene is vividly conveyed in the verses of

I am dying. Egypt, dying,
Ebbs the orimson life-tid
Ebb the crimson life-tide fast,
And the dark, Plutonian shadows
Gather on
Let thine on arm, oveuoong, enforid me
Hush thy sobs and bow thine earl
Hush thy sobs and bow thine me, ear
Listen to the great heart secrets
Listen to the great heart secrets
Thou and thou alone must hear.
Let not Cesar's servile minions
Mock the lion thus laid low; Twas not foeman's arms that; felled him
Hiswas his own that struk the blow ;
His, pillowed on thy hoso

Turned aside from glory's ray,
His. who drunk with thy careses
Madly threw a world away.

As for thee, star-yed Egyptian,
Glorious sorceress of the Nile, Light the path to Stygian horrors
With the splendors of thy smile.


Pompeo Battoni was born at Lucia, in 1708, and died at Rome in 1787. He was one of the most cele brated artists of the decadence, and some of h1

## Puzzles.

PRIZE PUZZLR.
1-SQuare Word.
My Frast is "something lean and rough M'Il call my Skovid to makenontrhyme, A milk finid derived formenyme."

 G. W. Blyth.

## Five little pationts here I have


My Smoond I visit much indeed,
My Thirn is alwaysing good spirits,
My Fourth in scowls and frawns appears,
And never out of trouble ;
My nery you cannotmate, him straight,
In two hell always double.
Charlie S. Enwardg.
3-Eniema.
Oh, how many tales of By the rioh and the poor, by For Ine young and the do good wherever Athomgh I have been from
 And often Icause the blackest
of woe. Orase My Finser is "to study care Just as my consins do; ;
My Becond is " mn thhebit Who to his country is My Thip is a very small in
seet Which works almost con My Whole is what we all When writing to Uncle T ada smith My Firgr is to coñquer, MY Tor AL orten is applied
To a great work of art.

Answers to May 4 st
Puzzales.


Novel Frames.
The materials for one are primitive-stout Separate the bark into thin flakes, which is easily done; select nice, smooth pieces, and cut leaves out of them. I chose my model, oak leaves, from nature, and marked the veins with a penknife.
Having cut the pasteboard to the desired shape for the frame, sew on the leaves, taking care that each one overlaps the other so as to hide stitches and cover the ground work. To finish the back and which a slit has been cut for the picture, over the back, taking care that room is left for it to slide in and out. If the picture is to be a fixture, one máy paste all together. If the frame is to stand on a support; a piece of thin board is best. To hang, and this way is easier, attach a cord. Varnish the frame afterwards.
Another frame is made out of cork carpet-lining,
often packed around bottles need not cost more than a few cents for turpentine and varnish, and perhaps five cents worth of gilding, in powaer form. But that is not the cheapest, nothing but alittle time trouble Choose pieces of board-the cover of a dry-goods box will do-and fit together for the frame, making a groove at the back for the picture to rest it. If you are accurate, the corners will be little trouble, not much matter, as the wood will not show in the completed frame. Gather the lichens and mosses which grow on old posts and trees, and glue them securely over the frame. You will have a pretty
and rustic, yet artistic, frame.

＂ravenscrata＂stook farm


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