## PAGES

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$\mathrm{A}^{\mathrm{NY} \text { even }}$, numberod in maction of Dominion


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oondition eonnocecte therevith under one or the









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Advartisa in the Advoeato

# The Farmer's Mavocate <br> Persevere and Succeed.' 

Vol. XLI.
EDITORIAL
Lift Your Face Off the Grindstone.

Unteritutipy toin is on longer neesesary to

men, who adopt improved methods, who make every stroke count, who build up their farms, and perform generously their duty to their families
and the communities, getting the good out of life and the communities, getting the good out of life men, and they are seldom drudges. Mental
energy is rarely compatible with physical exhaustion. The farmer who would work to the best
advantage must have some time for reading, conadvantage must have some time for reading, con-
versation and reflection. Step out of the rut now and then to take a look around. How can
a man select the best track who is sunk so deep in the slough that he cannot survey the field? Take a day off to travel about and see things.
Attend agricultural meetings when you get a Chance. lead the agricultural press. No man by working longer hours. Shorter hours, better methods, better work, better health, a fuller lifeOn one of the best-managed farms we ever Saw-a dairy farm, at that-the men rose at
$5 \mathrm{a} . \mathrm{m}$., and the chores were supposed to be finished by $6 \mathrm{p} . \mathrm{m}$. They accomplished more per man, taking the year through, than any other farm laborers we have ever seen. The men arked and a will whie they did work, and the the business paid.
On some farms nowadays things are run the wrong way. The hired help works a limited time chores, while the employer dogs at it early and late. He fancies it is necessary, never dreaming that, while saving at the spiggot, he is wasting at the bung. The farmer's hours should be shorter not longer, than those of his help. The former, who supplies the capital and takes the risks works with head and hands. That his brain may be bright and clear for managing, his hanu should not be too constantly employed, even in
the rush of crop-saving, in having and harvest, when hard-and-fast rules as to hours of labor as not usually observed. At this busy seasond, the
there be breathing spells. On the other hand, the " help " may do much to make things " go," by taking a personal interest in the success of the operations of the farm, whether the farmer is o hand or not. In short, let there be a manifestacion of the good old gospel of mutual helpfulness
 broad outlook on life study the farm, and you will take a new interest in the work. Life will be better worth living. You will live more years, more days to the year, and more hours to
the day Your wife and children will find some thing attractive in the farm, and in the long run you will be money ahead of the neighbor who
cannot see the economy of brains over muscle.

## Sanitary Floors

## The Chicago packing-house revelations faster

attention upon the sanitation of all institutions
where human food is prepared. While Governments and boards of health are devising ways and means for inspection and regulation, testing, tagging and branding, we are satisfied, from our complish so much for the maintenance of cleant uess in slaughter-houses and abattoirs as the cement floor, coupled with efficient drainage. The ibrous nature of wood and the cracks and crevfor decaying animal or vegetable substances disored steam and water, no matter how often or how thoroughly washed, a fact to which the oppressive effluvia of even our most scrupulousiy-
pervious surface of the cement floor, on the other hand, is proof against this saturation, as wood ean never be, and, in the case of ground loorst heing laid on the solid earth, there is no fith disease and death. Cement floors and proper drainage are two conditions that municipal Boards of Health should imperatively require in all slaughter-houses. Their introduction in cheesefactory and creamery make-rooms is solving the problem of the sanitation of these institutions, and will no doubt be very generally insisted upon by the new Ontario dairy inspectors. The substicution of cement-concrete for the walls and parcountry wa for the improvement of their sanitary condition, to say nothing of saving the almost illimitable waste of fertility which the old system involved. When Mr. Isaac Usher started up and down the country as a pioneer missionary, preaching the gospel of cement-concrete in the construction of farm buildings, he rendered agriculture a very substantial service, forestalling, to a great extent, the "man with the muck rake" in our important else will do so much to put him out of business

Ontario Agricultural College Courses.
A subscriber of "'The Farmer's Advocate rames the thourht of quite a few intelligent farmers' sons, and is an appropriate topic for discussion at this season:

1. Is the B. S. A. course at the O. A. C as Good as the other professional courses of Toronto point after gratuation? a pecunary stand 2. Does the College send a catalogue to enr ruc. for admis. what are the qual 3. What course do graduates usually pursue
after obtaining their degree ? Comparing the Agricultural College degree Bachelor of Scientific Agriculture, with the that the course leading to the former is a speciat and more or less technical training, whereas the latter is general and in greater or less degree academic. The B. S. A. course turns out men already fitted to engage in some line of life work. The Arts man finds but limited opportunities open to him, unless he takes a further course in medicine, law, or some such branch. This requires several years of expensive preparation in the prime of life before he can enter upon his life work. Even then he finds the field crowded and tor, he may buy himself a practice for from one to five thousand dollars, but here is an initial expense which few young Canadians can afforal if he succeeds well, he will, in all probability. make more money per year than if he had taken agricurtural College course, but money is not everything. A man who thinks so, should choose we be some kind, not a profession
ist is he averane run at all towards the farm, his occupation with e more interesting. Comparing the intrinsio alue of the B. S. A. and the B. A. courses, we should say the former is the better calculated to develop capability, character, and the sum total alue is not very well known outside the special feld of agriculture, but as it becomes better known it will grow in general esteem. It may
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not be quite so broad or thorough in such sub-
jects as English, chemistry, mathematics, and
biology, partly because, in the sciences, its
matter is selected and considered with a view to
its bearing on agriculture ; but just as farming
is the most practical business of a practical age,
so is the study of agricultural science in a good
agricultural college the most practical kind of
education.
Comparing the O. A. C. course with that of
the School of Applied. Science, which is affiliated
with Toronto University on a similar basis, it
may be pointed out
may be pointed out that here we have a more even comparison, seeing that both schools are,
to a large extent, technical ; they aim to fit their graduates for some particular line of work Practical mechanical science affords excellent
openings for the bright mind with an aptitude for such work, and we have to admit that oppor-
tunities in this direction promise more generous
remuneration course of the Agricultural College the $13 . \mathrm{S}$. A we have said above, money is not everything.
For our part, we would not hesitate a moment between the two courses. Agricultur a momen would irduce us to switch off for any temptation course is that, failing satisfactory professioun employment, every graduate can fall back upon B. S. A.'s, twenty-two are going to farm-these, their class at the end puota who drop out of may be insinuated that more of the graduates were offered. Without denying some truth in the presumed assertion, we submit that this indicates nothing unhealthy, so long as there are such lege men, because, for the most part, they are the men who are best fitted therefor: consequently,
the salaries and inducemonts are bound to be
made tempting enough to attract those who have no land or capital. It is an excellent experience or investigation. Such work is broadening; it is an education in itself. In the past the iear
has been, based, we must admit, upon experience that once entered in these fields the young man this is changing. to practical agriculture. But class many of them almost inclined to apologize for their action in leaving the farm tomporarily, and they frequently hasten to add that they intend to go back to it as soon as they get enough capital for a little start. At the international Live-stock Exposition, Chicago, last fall, we wer pleased to note that, among the large number of hals men representing various agricultural jour high apprecill, in private conversation, voiced were seriously $y$ deh of farm life and work, and many whether they would not prefer with themselve they were at. With most of them, tournalism was a sort of post-graduate course, preparatory farming. Possibly it was better for the boy than for the papers they worked on. This year at Guelph, among the twenty-two young men who
chose the farm was the winner of the secial prize, donated by the graduating of the special two the best all-round graduate each year. Only professor, he expressed his intention of retiring be account many years, to engage in farming on his own that the $O$. A facts are significant. They show sion, of instilling into its students and graduates

## A Day with the Excursionists at Guelph.

 cultural College at to be proud, it is the Agri- Department of the Mandscheuri variety of barley cultural College at Guelph. It belongs to us, of which half a million acres were grown las is a revelation of the possibilities of applied agricultural science; it is a fingerboard pointing toward ideals-ideals which we may not all attain, but which it is well to have before our minds. It is a source of accurate information, of which any who walks with his eyes and ears open may partake One man said last month that he hadvisited the College every cursions for the last every summer on the June excursions for the last thirteen years, and each time
he learned something which Does the farm pay? Of course for coming. dent Creelman promise
the head of the Institution, so long as he is at supporting. Its great work is investigation, ex perimentation, instruction. Many breeds of stoch acres of park and many thousand are grown of buildings have to be kept up. Dollars Worth branches, and no small part of the of a doz... men is to impart information of the duty of these
suffers the handicaps inculoutal College enterprises. Its laborers worl to Government ment "pace, and it is hard to ket them to do
differently. There are those who thimk
lege has an adver cheapening cost of produchom, but chumer an quaintance with the inside worhings oif large
public institutions would quickly commine the
reasonable man that any preicon herdsman who obtains profitable results from an several points on a private farm of his own. That
the college farm and stables show such results they do. is owing to the excellent principles as
which they are managed, but a capabloc will apply managed, hut a catole man who own practice, combining with them the all-impor, man, Hescribine brielly talk by President creel ant factor of personal attention to details, ought the most advantasenye the College. its work, and rectman told the excursionistectly. President the value of the average farmis oumerthe roubled within the past ton vort hat heen at least disseminated from ten origination at, man present, he said, but has benmited many dol lars either directly or
turgetting a word for thur Macdonald Institute and
th.
livelihood.
course is proving also shows that the College and enabling them to make help to its students than was formerly supposed to be possible. This is one of the principal secrets of the fact that the business is being better appreciated
What do the B. S. A.'s usually engage iew are employed on the C'ollege staff in junior iournalism. A few enter the school of agricultural for the Provincial or Iominion Departments Agriculture. A few go to foreign or other Canadian agricultural colleges or papers, and a good
many farm, either in the East or in the Ca West All the tanadian lifting influence and no more worthy amty upcan animate a level-headed, practical-mindation lad than to enlist in the ranks students, and thus become a more successful tarmer himself, or, if his call is towards proyators or teachers whe ranks of the investigators or teachers, who discover, reflect, or
spread the light, of which we are still much in Full particulars regarding courses of study and conditions of entrance may be obtained by applying to President (i. C' Creelman, O. A. C.,
Cuelph, for a copy of the College Calendar There is practically no restriction on applicants. for Two-year or Associate course. If a man wishes identical with the other up to the end of the second year, he must obtain in the end of the examinations a 60-per-cent. Mark in English, and year, the produce of a mances were grown last year, the produce of a single handful of seed ob-
tained some years ago. As this is our best yielding barley, it is probable that the grain from lions of dollars, and this cercal amounts to mil an immense amount oi helpfuly one example of College departments. Besides wis is in all the tion and knowledge gained by the annual crowd of visitors. We believe the College has paid and will continue to pay a high rate of compound and fededing the multitude.
$\qquad$ made a tour oi the departments with the Pert County excursionists, among whom, ly the way, Was Hon. Nelson Monteith, Minister of Agricul ture for the Province, who is never above accept-
ing the same fare as the rank and fic mituents. his not aware how these excursion readers who are not aware how these excursions are managed.
Fach one is undertaken by the Farmers Institute rginization of the county or riding. The dates Sold in advance by the College authori points on excursions nay be run from differ Aoves, totalling sometimes At Guelph depot, rowt cars, which carry them to make for the mile south of the city. About $11: 30$, over doors of the large gymnasium are a. m admitted, seated onstallment of the multitude me sandwiches, biscuits, whense regated with
the experimental plots
an disquased, is takens in or such part mi. Zavizes assistamstaken in hand by one onessor he roiessor himseli
and discussing the results of then work in this ax- ing the produce of the mixeofl crop, the mixture
 veat the series. In this way a reputation io liability and practical value has toen built
which is the envy of agronomus leenartments Which is the envy of agronomy depart ments
American colleges.
The results of all this tre available inses the the results on all thiss, ior the asking. The practice in this departum
is to manure once every four years with whe



## 0

 ands the list in point of voiclit mann Chaff s Nammoth Winter. Winter bartley is not of thely to urove a sucess, althoush a Canadian strat
Which they have boen growins shows evidence of Cuntage of hardier. Sexperiments seeding, ind tot the the ate that spriny Wheat gives best results when sown as soon
Huring opens.
Barley gave just as good

 ing opened. It mav be well to remarar, however
In this connection, that the tirst seacf ing on thes

 vails $A_{n}$ experiment to determine what class on grain will yield the greatest crop in pounds pee acee, made barled by about 10 pounds per acre bar ley beating oats by about 100 pounds.
The dififerences botwores par
 poor yielder. Emmerr as shown above o is a feod
yielder, and has but 21 per cent. of hull, or l loss
 soil, but not so good for rich land, nor have thes
iound it satistactory in mixtures. pats Siberian has yiellect pride of place, to the the the popular A merican Banner. Siberian is second
and after it come Tartar King and Litherty request to know the yield of Banner oats on the
experimmanal 1 गlots eelicited the information tre luctantly vouchsared, becaumer of the customary Whereduly with which yield ingures are received.
that last year it was at the rate of over one hundred bustels per acre. Two hundred and Seveventyine varieties of oats have been tested
\%ure in the last secenteen years. About thickness in huls of oats, teets showert wer cent. in Joanete, up to 49 per cent. in the thachest hullecd varicties, Most of the English
parictus, such as somsation, are thich-nulled. Manner and Siberian are about medium (a little Nrnol very mis loadine indor Po punimpess of For smut in oats, the best thing they have


 The hest mixture of grains they have found to bushel of oats and 1 bushel of barley per this giving a greater yield than any mixnint arterent proportions, and greater ind Numumer. goose wheat. or black hulless barles faw rithe varicties for mixing, For a dry scason "Wie varictes for mixingy. For a dy sasion, Vinnk perhaps the proportion on vals mixht

$\qquad$ .Success, a beardless variety, but a poor yield In all crops, the principle holds that length acen is necessary to insure yield
$\qquad$ knee-deep vegetation. It was explained that in forage was the mixture which they have found th be the best annual pasture crop, viz, $1 \frac{1}{2}$ bushels
Siberian oats, $\frac{1}{2}$ bushel Farly Amber Susur ('ane, and $7 \frac{1}{2}$ pounds common red clover.
FARM STOCK. 1 Theturning from the experimental department, dhis nused live-stock matters for a few minutes, Farm. He then condlucted us through the stables hour so was spent looking over the cattle and discussing type and pedigree. We were alsu Her Pretty Splendid Clyden then brood mare, cattle this year they are using for flies a mixture Water forty one part, linseed oil two parts, and water forty parts, sprayed on every day. Fields and stock were looking in their usual, thrifty con-
dition, showing the results of the system of four(1) be motitien, a system which, by the way, has (1) mal masture, and scarcely enough straw for hay

the horticultural department

$\qquad$ fow instened to Prof Hutt while he explained They are doing some work in cross-breeding varieties Their best as in comparative tests good berry, Their best early berry is Splendid, It is quite as carly as Michacl's Early, and more Prof. Hutt emphasized the desirability of setting flowers out in borders, rather than beds, and known hardy perennials instead of annuals, which good effom each year, and do not give as internered as judicious selection of perennials, hroughout the season. In department the miliking machine experimenting with sweet-cream butter for the British market, making both with and without butter. They are also comparing ripened-cream kinds of preservatives in addition three different salt. No definite conclusions have been reached In the cheesemaking department was a graphic ex hibit of two cheese, illustrating the difference in the cheesemaking value of milk of different de grees of richness. Cheese A was very much larger han cheese B. The following table on a card above
$\qquad$
$\qquad$
$\qquad$ $\begin{array}{llll}\text { Value of chewse, at } & 10 \text { cents pound. } & 28.8 .8 & 34.6 \\ \text { Amount of money } & 3.46 \\ \text { Anat would be } & & & \end{array}$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\square$ basis on which to pay for milk for chensemakgreat deal of interest is being taken in the (eld in the stable for the last six months. It Is. so far, to, he giving good satisfaction. The inilk wrll. rather better, the attendants say
tells us that, while one or two cows do not give no much milk as they did last year, he has sible for think that the machine is respon Though ecine slight decrease in these cases has trien and pronounce upon it until he
 as good as ordinary manical mill extraction poor hand-milking but does notieve a will ever be invented that will draw the mill well as a skillful human hand The machine is perated by electricity. Exhaust-air pipes pas verhead through the stable, opening between very pair of colvs. The machine is set betwee wo cows, and connection made with the exhaust time cups are placed one at haust action is set upers a pulsating exintermittently produced the milk leaves the being hrobbing throuch a rubber tube and hrough a short glass tube into the receiving ves se, which holds six gallons. Ordinarily one man he attend simultaneously to four cows. When peratik ceases to flow through the glass tube the seem inues after all the milk the suction con s supplied by an electric is drawn. Power also used for cutting feed We await with grea In the dairy stable a more extended trial. fitted with two different makes of cows are stanchions. Mangers have heen practically iron away with. The front of such manger as done , staight six or seven-inch drop from the mented feed alley. The back of the manger .incher, a four-inch strip, into which the stanchion is astened. In the other row the or five inches fres to a gas pipe, about four back there is to that manger this being the only tem has not vet that manger. This latter sysother works satisfactorily Prof. Dean the that simplicity is the fundamental Dean holds principle in stable fittings, as in dairying seneral cleaning the stable

## THE POULTRY DEPARTMENT <br> Lastly, the poultry building. Here was Prof

 Graham, sitting in his office, genially greeting all lins, leared up ings of eggs. The amount of trouble enormous. We ceinfornal interviews must be him, but he has promised to we learned from sillf in early issues of '. The Farmer's of it him He has been trying hopper-feeding with deend success. Likewise, his "cold houses " for winter buildin quarters, are still in favor. He is now southg a new poultry-house $110 \times 16$ feet facing be hut On the other three sides there will eiling wint ble ply of boards, battened. The building wilt haver of one-third of the other two-thirds partly glass front, and the be three compartain front. There will found that, of two houses . Wast winter he glass and the other with canvas provided with house with the glass windows would register, the degree lower temperature. Hopper-feeding, mind incubation, and white diarrhooa athator-hatched chicks, are topics on which our To show expect to hear more at an early date ake Poultry Department has not hay add hack seat in producing growth we Timbden cross they had goslings of the Toulouse at nine weeks of sping that weighed ten poundstils will contract blackhead have found that chickkey hen brought on the place, proved to be tur and chickens roaming over the same aflectbrof. (iraham says he would T a big sum of money. He does not think cund next vearow poultry to range over that
the college grounds
fitor a day that was all too short, the party
with a lingering with a lingering look at the beauticollege campus, to our mind, one of which ex-students in Canada, a place
comprise some twenty acres, rather a large coursers, race-horses; while for "p present u is a pity if the farmers of the Preelman says, coursers, race-horses; while for "" present use
amongst us," are road horses, riding horses, sad-
dle horses, nags, Chapman's horses, hacks, hackdle horses, naps, Chapman's horses, hacks, hack-
neys, ladies' horses, or pads, hunters, runniny neys, lacties horses, or pads, hors, troop horses,
horses, racers, race-horses, chargers, tres. cantering
post hacks or post horses trotters, post hacks or post horses, trotters, cantering
hacks, horses which carry double, tobs, Galloways, hacks, horses which carry double, cobs, Galloways,
ponies and mountain-merlins. The same author, in his "History of the Riding Horse," arain re fers to the Hackney as a recognized breed over one hundred years ago, and connects him with the roadster. That the Hackney in those days was largely used for saddle purposes, and that proved hy existing records. It is recorded tha Driver, a son of old Shales, trotted 17 miles i


Hackney Stallion and prices can be depended upon to remain hig have horses to sell.

Muddy fields and dry, hard stable floors ar the two extrem

## The Hackney.



The Horse and the Wheel there was an avalanche of＂uxyersestion trom the the horse．The whirr of wheors propplled ，
human energy was heard in all seetions trau erse
 higher，and the pressure was so preat that boult vards were built or reconstructeic for the use riders of the whell What was the orivis of
fever which prowid viotenty contuatious？An cident that we recall sheds light on the quistion
In one of the stately homes of the fashiona： Long Island colony，a fexv charming lactios wo．

 after luncheon，the handsome anmil eracefill firitu
 costume was beter adapted to the driwnsy
room than dusty roads．and threin was thy



Mange in Horses $\qquad$ their inception general symptoms of skin diseases show mislead people or disarm suspicion．In horses two forms of skin
discase aree otten confounded，whereas the relative im－
portance of these diseases makes it imperative that their
true nature should be understood at the beginning．It may be taken for granted that at mange beginning．due to
$\qquad$is thoroughly appreciated some advance has been madeawards its suppression．This disease has，unfortunate－
become more or less prevalent in some sections ofCanada．due largely to the fact that its contagiousness，three forms of mange．1．The most common form of mange insect is
psoroptes，＂hich chiefly invades those parts that are
covered with ．＂horse－hairs，＂and，consequently，infest
owing to the thickness of the scarf－skin of that animal． II a pin be pushed into the gallery，the parasite can be removed at the point of the pin．The male parasites （which form only about a twentieth of the entire num－
ber），the unimpregnated females，and the larve reside among the crusts on the skin．Although the disease may be fully established on some portions of the skin－ which will，consequently，become thickencd，thrown into parts，upon which the grain－like eminences made by the newly－formed crusts can be felt among the hairs of the coat．The disease takes from one to two months to
become fully established．Rulbing the affected surface become fully established．Rubbing the affected surface，
and manifestation of pleasure when the mangy spots are and manifestation of pleasure when the mangy spots are
scratched with the fingers，are prominent symptoms of the complaint． 3．The insects of the third form of mange are called
ssmbiotes．Their invasions are confined practically to
the leys．and extend very slowly from one part．to the legs，and extend very slowly from one part to
another．They commence their attack at the back of another．They commence their attack at the back of
the pastern，and work upwards，but rarely go higher
than the knee and hock，and are seldom found except on than the knee and hock，and are seldom found except on
coarse，hairy－legged animals． coarse，hairy－legged animals．They affect the hind
limbs oftener than the fore，and those of young horses mombs oftener than the fore，and thoso of young horses
more frequently than those of old ones．Strange to more frequently than those of old ones．Strange to
say，they manifest their presence，as a rule，only during
winter nter：the probable reason of this being，on en explainged
Neumann，that the excretions from the skin during Neumann；that the excretions from the skin during
summer are sufficient for their nourishment．
Pos－ the summer are sufficient for their nourishment．Pos－
sibly for a similar reason，namely，that the skin is more sibly for a similar reason，namely，that the skin is more
active during work than during repose，the horse suffers more fom their attentions
the former．The symptom of crusts，cracks and sores，thickening of the skin，and falling out of the hair．When the pasterns are afliected， symptoms may resemble those of grease or arecapes． the commencement of the attack，the only im－ che mangy horse has when he is at rest，of abruptly striking the ground
with a hind foot for hours at intervals，and especially
during the
hight．$\quad$ Some
horses
kick． horses kick．Aght All scrame
and
bite ERUPTION． The nature of the erup－
tion is due to the bites is due to the venomous
bit the insects and to
friction by the suffering animal t relieve itself from the itch
ing by scratching fing itself．
The second form is the most contagious；the para
sites of the firs live under favoratorm may stances two months，thos month．The eggs take from and vemain fertile hatch M Treatment Wirst two，especially of the covery，hence vigorous
measures are necessary Hs suppression．Ther The
second form has a very
bad effect as A Bad Case of Mange Brought to Ontario from Northwest． bad effect on has a very fatally，owing to the debility caused by the continual bloodsucking and irritation of the parasites．In order
to find the insect it is necessary to scrape the of the skin of the affected spots with a knife，and ex－ amine with a small magnifying（50 diameters）glass in
the warm sun．The second form is apt to he unrm sun．The second form is apt to be mistaken
for skin trouble，due to poultry lice． Clipping of the coat is almost essential．Wash th affected parts thoroughly，using the ordinary carbolic soap and a brush，or use soft soap and warm water，in
which is an ounce of soda carbonate to the afterwards apply any of the coal－tar dips，as advertised two weeks．Disinfect the stable or three days fo lime wash，Containing either one ounce of crudith hot the gallon of lime wash．Wash all the harness unced t

More Uniform Type
standard－bred horses，is a problem that should
interest interest breeders Great achievements have been beauty，style and action，but in accomplishing the above distinctness in type has not developed rapidly．The reason，no doubt，is due to the fact that breeders have followed the families that
produce extreme speed，and have not applied part of the science of breeding that applied that
rather reproduces，or rather reproduces，uniform type．Many potent
sires that have failed of patronage because per－ sires that have failed of patronage because per－
haps they did not produce great speed haps they did not produce great speed，might
have done greater service to the breeding industry


Steady Growth for Maximum Develop ment.

LIVE STOCK
Parasites that Infest Sheep.
cannot be sustained,
hat have come greatly
rown along more steadil
have made bigger and buttor stall have doneth would surmised, is owing to the fact of that their growth, it it
become aware that they beginning to fail in their joints or other ways, and s.
feed is reduced, with the recult that their growth follows, from which they never again te
cover. This sort of thing occurs very frequently in the ordinary course of farming amongst sheep and cattle
Let a flock of ewes become short of milk through hav ing a bad time for keep, with, perhaps, bad weather at
the same time, and note how long it takes those lambs to recover from the stunting that then takes placi
Young cattle suffer in the same manner. best steers at last year's Christmas shows owed their
extra weight to their not having been forced on for that extra weight to their not having been forced on for the
yearling competitions the previous year.
any means an easy one to deal with, as there is no de
nying the fact that if a breeder wishes to take a prom-
inent position with his yearling stallions he must have
them practically as big or bigger than the average two
year-old under ordinary conditions. After showing a
high-class yearling the remark is commonly heard: He
Wants to be taken home now and lost for a couple of
years. But how many breeders do this?
years. But how many breeders do this? The tempta-
tion to go on showing and winning prizes is doubtless
too great to be set aside. It was satisfactory to note
at last season's shows that
a number of breeders'
representatives were sent to the showyard in quite the
ordinary condition of the farm, and when thase coll
ordinary condition of the farm, and when thase colts
were brought before judges who appreciated the cardinal
points
pore brought before judges who appreciated the cardinal
points in preference to a superfluous amount of flesh and

The Belgian Horse

## Editor " Your article or

article on
article was
woat this breed of horse which are absolutely incorrect

$\square$
Universal Exposition is a fact known to the who
worlad, and has most thoroughly established their valu
as draft horses. The International Jury awarded then
the world's championship among all the breeds of horse
tor hoavy and liwht
or heavy and light draft. At page 30 of the Albut
victorious
hased its
hased its
proporti
arposes.
In Cana
count 65 Belgian stallions, where distributed in the differ
nt counties, wher nry have been int roduced since 1902
heir progeny, a large number of which are already fully
Erown, prove that hy this crossing the "hreetr has pro-
huced the very
These Belgian stallions we
$f$ about 9 miles an hour.
fition at St. Iovis. a very large number of Belpial
of Anvors ans.and carried 1.01


They of the Golden Hoof are Having Their Innings Now.

JULY 12, 1906
THE FARMER'S ADVOCATE
lrows into a full-developed maggot, whose she, imenne. Our Scottish Letter.
liately atter birth, hardens and darkens to
firm seed-like pupa-case within which the ked con
maturity. The same female is able to produc. more young, successively. The pupa-case is o Keds possibly suck heep, but they feed principally from the wool
pawcing the st rawing blood, so that when present in numbers may cause much loss to the animals, and even, in
case of lambs, death. As their whole fife history
passed on the sheep's hody, keds can be readily
terminated with proper care. the nostril fly. It is about one-half inch long, slightly hairy, mot-
tled with black, grey and yellow markings. It bellonns
to the same to the same family as the ox warble-fly, and, like that
insect, has its jaws undeveloped, so that it cannot bite. In Juy or August the female either lays egys, or
deposits tiny maggots, already hatched within her body. around the sheep's nostris. The maggots soon moke
their way into the nasal cavities, travelling by means of mouth hooks, short spines on the body segments,
and a prickly process at the tail end, where the con-
spicuous air holes are situated and a prickly process at the tail end, where the con-
spicuous air holes are situated. They attach them-
selves by their mouth hooks to the living membrane of the sheep's nasal cavity, and feed on the mucus through
the autumn and winter. When fully grown they are causing great irritation, and the sheep having expelled them by sneezing, they fall to the sheep havid. Ung expelled
shelter the maggot skin hardens, to form the smome shelter the maggot skin hardens, to form the smooth,
dark pupa-case, within which, through a period of three
or four weehs, the fy or four weehs, the fly comes to maturity. It is gener-
ally during April or May that the maggots leave the
sheerp's nasal cavities.

| SheEf magGots. <br> The sheep maggots, which are too often found biting the skin and devouring the flesh of living sheep and lambs, are the young of bright metallic green and violet flies, hnown as "green-bottles" (Lucilia sericata and L. cessar). It is often stated that the common, dull, steely "blue-bottles" (Calliphora) also produce sheep maggots. It may be so, but no proof has yet been furnished, while the attack has been repeatedly traced $t_{0}$ the ""reen-bottles." The female fly lays her eggs in clusters of about fifty on the wool of the sheep, fasten500 eggs. Egg laying usually begins in June, and the mis'hief is greatest during July and August. The fly secems to prefer sheep whose wool is greasy, or whose hind quarters are sniled. TThe good shepherd usually tags the sheep.] Lambs and young sheep are more subject to attack than old ones, and lame or sick sheep than healthy ones. A few years ago the sheep maggot was troublesome only in low-lying, rank, shady pastures; but now sheep on hill grazings are often attacked. <br> The maggot tapers towards the head end, where there are powerful mouth hooks, which tear the skin and flesh of the sheep; at the broad hinder end are the air holes through which the maggot breathes. It benight; then the maggot skin hardens to form the brown harrel-shaped pupa-case, within which the fly develops. |
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## Which shows most do flourish. We have had them

 nioy a rest from then fortnight, and could certainly and before we have rightly recovered from that dissipado our best. It is not easy to see what we are to dowith ourselves in a place like Peebles. Certainly it
hus has good hotel accommodation for so small a town,
hut its railway facilities were never planned to cope
with such a traffic as with such a traffic as enters a town during the week of
a Highland Society's show. Meantime we have been a Highland Society's show. Meantime we have been
surfeited with shows at Edinburgh, Stirling, Glasgow Paisley. East Kibride, Castle Douglas, Campbelltown,
and an innumerable count of smaller places. What is Most of them did not pay, and the be hard to statid of stock at Edinburgh and Glasgow were viewed comparatively few visitors. try. Farmers have neither leisure nor money to expend about a foontball match than about an exhibition more AYRSHIRE STANDARDS.
$\qquad$ scheme for testing the quantity and quality of the mile
from hand from herds in the dairying south-western counties has
had a most educative effect. Silently, and in dairy farmer is realizing that deeply interested, the


Countess Farewell Sth and Heifer Calf, Violet Victor
Sold for $\$ 5,250$ at the dispersion sale of the Shorthorn herd of the
L. Mills, Ruddington, England, May 4th, 1906 .
several very tine specimens ar Bo.rowmoss, Wigtown, is one of these. We Mr. Murray, have a more useful stock than Mr. Murray. Owners could be taboved no harm would be done, but such
points pullic as color are best left to be regulated by the present such a superfluity of white Ayrshires not at WhyDespalve or fifteen years ago. For the past fempration have aunons us a large percentage of Canadians intent
on buying Clydesdales. Fivery wealk and leaving the Clyde for SL. Every week shipments al day the Donaldson liner, Lakonia, had a shipment 36 fillics and 1 stallion for Mr. G. A. Brodie, Stouffwany with Mr. Wm. Taylor, Park Mr. Brodie, in eomof the 'best judges in Scotland. They should be easily sold on your side, as they are very well bred, and
should should breed stock of service to your farmers both in
Ontario and the Northwest. Ontacio and the Northwest. Mr. J. L. Clark, from
Norval, near Brampton, Ont., and Mr. W. J. McCollum Norval near Brampton, Ont., and Mr. W. J. McCallum,
from Brampton, Ont., are also on the Lakonia with numer and mares, mostly young, although not so numerous as Mr. Brodie's big crowd. Messrs. McMillan,
Archibald and Cudmore Sont shipment of over 20 head on Saturday first, and I expect there will now be shipments right abong to the
end of the season. Meantime the Clydesdale Horse Society considering its standard of registration. A hociety has been of nonsense has been written on this subject, and I lately saw a letter, written by Mr. R. B. Ogilvie, of the American Clydesdale Association, in which he sald and that there were a large number of two-cross animals in the most recently mablished volvme of the
Clyydesdale Studbook. This Clydesdale Studbook. This
shows that Mr. Ogilvie does shows that Mr. Ogilvie does
not know what he is talk not know what he is talk-
ing about. He fnds some two-cross mares in the ofume, entered not be causa they are breeding
now, but in order that the now, but in order that the
back cross.s in exporteil animals' fetigrees may have numbers. An analysis the entries in Vol. 28 V hae
theon made. It brings out certain interesting facts. There are ${ }^{451}$ entries of The minimum the rolume
qualifcatio is $\mathbf{8}$ registec:ed crosses for animals foaled after 1890 Onily 67 out of the 451 heve
only three crosses reais tered; $\quad 109{ }^{\text {throses }}$ have fegis crosses; 132 have five
(rosses; 80 have six crosses;
26 have se en creser 26 have se.en crosses;
12 have eight c. osses, and 12 have eight c. osses, and
1 has more than elight. Be
sides these there sides these there are 27
if the maggots are allowed to continue their attack onhilled, and it has been found that sheep which have
heen once "struck" are, even if cured. more liable than"thers to be attacked again. There are repeated brood
If fies and magots through the summer. Every neg
"oted . mucgatyglerted "maggoty" sheep. a lave or deadmer. is a center nes
infection for the surrounding neighborhood.The common lice found on sheep are not true blood-wits- the bitin milece. so called quite distinct group of in-and this get food. They may possibly draw blood at
imes. but they do mot poscess the powerful wirciny
trong claws. are specially adapted for clinging to the

## A Preventive of Warbles

## W. Wrasion ting the atheck of the warble ny

$\qquad$
$\qquad$ Mix well together, and apply along the spine with . The smell drives off the flies and pre-

asen of proate ton of bere or butur is the cases, as under rules s, epecial tive before the rules were consolidated now nearly ter years ago. In the case o

a fancy animal having an ideal vessel, but a milk yield
below the normal. One of the most significant inci below the normal. One of the most significant inci-
dents of this kind was a petition presented to ine Board of Directors of the Highland Society a fortnight ago, in which they were asked to take up the question
of imploving the dairying properties of the Ayselitht: As the names appended to this memorial were para ios one read out, the faces of the directors were a study
It was headed by Sir Mark J. McTaggart Stewart Bart., and Sir Hugh shaw Stewart, Bart., and follow ing their signatures caine those of men like Robert
Wallace, of Aucherenbrain; Adam W. Montgomerie of Aucherenbrain; Adam W. Montgomerie, Less-
James Howie, Hillhouse ; and, in fact, a very lar, te proportion of men who are engaged in the effort to make dairy farming pay. Canadian buyers of Ayr-
shires know most of the men whose names have been shires know most of the men whose names have been
mentioned, and it was significant that not many of those who are identified with the exhibition of what is called " milk stock" had appended their names to this
memorial. It is currently reported that the Highen nemorial. It is currently reported that the Highland Society Milk Record scheme was rather an eye-opener
to owners of cattle of that class. They never imagined their cattle were such indifirerent milkers, and several of the keenest opponents of the Milk Record scheme are The Highland Society directors appointed a committee Herdbook with the memoriatists and the Council of the Herdbook Society, with a view to a possible amendof commercial value to the front. Meanwhile a newv scale of points has been issued by
he Ayrshire Herdbook Society. The knotty point of he Ayrshire Herdbook Society. The knotty point of
color is dealt with, and, curiously enough, the comcolor is dealt with, and, curiously enough, the com-
mittee which drew up the scale has tabooed black and
white or white and mittee which drew up the scale has tabooed black and
"hite or white and black. This is certainly a miske. Some of the best cows the breed has ever known
ve been black and white
these 47 are special cases, 2 mares have one. cross each (cases of numbers being given for purely technical pur-
poses), 37 have two crosses (again maing poses), 37 have two crosses (again mainly old mares,
numbered for technical purposes), 208 have the stander numbered for technical purposes), 208 have the standerd
three crosses-which, of course, means that their produce have four- 246 have four crosses, which means that their produce have five; 189 have efive crosses, which
means that their produce have six; 72 have six crosegs means that their produce have six; 72 have six crosses,
16 have seven crosses, 3 have eight crosses, and one has more than eight. I think eight crosses, and one
clusive answer analysis is a conclusive answer to croakers. It shows that without at all "forcing the pace" the Clydesdale Horse Society is
building up a pedigree structure on a sound 1t has conserved all that was best in the system of breeding which Mr. Drew favored, and reared upon that a standard pedigree, which must meet with the apinoval of men who understand their business. It may mare, fuld sister to Mr. Drew's Prince a breeding She is named Young June a pout sixtee Avondale. age, and has been a most prolific oreder sixteen years of to foal either her tenth or twelfth foal (I forget which) a notable illustration she is of sound constitution ilmarnock. Her owner is Mr. James Young. Peatland, The cows in Princeton (Ont.) test are makin month inding June 14th being 10 pounds of but ter-fat higher than in April. While many cows Ner 4.0 per cent., the average of some herds
Number of cows tested, 85 : low yield of milk, 816 pounds ; average yield of
yin
28.5 pounds.
niable.

## THE FARM.

## Lassitude of Public Opinion on the

 Road Question.Edito cussion, viz try roads, is one which calls for much carefur
consideration consideration, inasmuch as, next to the problem of education, there is none other which comes so
near to the whole people, or in which for the expenditure of money are so evenly dis tributed. When so much of the social and financial well-being of the people depends on conveni not wonder at the question of placing the do sponsibility for the bad roads, and how to re
vise means for their improw vise means for their improvement.
Lerience of our own matter in the light of the exto place a measure of the responsibility inclined part of the people who will oppose any measure of road reform which means the expenditure of any reasonable sum of money, to set on foot this cil, several years ago, in order to encourage counbuilding of good roads, passed a by-law, the Whinciple of which is a voluntary frontage tax tion of road, desire to improve that road gravelling, they subscribe a sum amounting to or in excess of $\$ 25$, either in cash or work. The
council supplements this subscription with council supplements this subscription with an
equal sum, pays for all gravel used, and appoints a commissioner to let and superintent the work of gravelling, the grading and drainage having is once opened with any piece of road all account in the application, any additional subscription is supplemented, until the road is built. The regravelled by this means. One of the strikin gravelled by this means. One of the striking
features to be seen in connection with this method is the enterprise with which some very inconveniently located pieces of road have been gravelled and made into good roads, while other parts
of road near to the gravel pits are left ungravel led, owing to lack of enterprise on the part those who might have taken advantage of the
very difficult and costly to maintain, and this same as in other matters, education and objec
excessive travel demands that the municipality sons in adioining municipalities are better excessive travel demands that the municipality sons in adjoining municipalities are bett
shall deal with them. To reconstruct means a for advancement than the compulsion heavy outlay, varying according to the access the municipality has to good metalling material, and yet economy demands that the work be done with What can be done (1) by the ratepayers? The attitude of the ratepayers to any question of tion. If they are favorable to a judicious yet hecessarily large expenditure for the improvement construction may be done, and it becomes their duty to create a public sentiment which shall delay in the matter strong sentiment will do away with objections at tax-paying time to the increased taxes made nec
(2). Our municipal councillors and officers have the most important duty to perform, and the work, even in the face of an adverse public pinion. They may lead public opinion if they gage a highway commissioner to look after en necessary for repair and construction, it becomes necessary for the municipal council to adopt ap-
proved and uniform specifications for the see that all work is done according thereto work, every dollar judiciously expended, with a view t making the work as permanent as possible, and
travelling as convenient and comfortable a travelling as convenient and comfortable as possible.
No councillor or commissioner can lay stress on proper drainage of the roadbed, as upon this depends the whole matter of construction. Side-slopes on grades prepared for metal, easy and attention in the matter of repairs as soon as necessary-are all points of importance.
(3). The question of the duty of the Provin cial Government in the matter, is one that opens up the discussion of the matter of county road municipalities that take advantage of the "Act for the Improvement of Public Highways," are
receiving assistance along the lines Theiving assistance along the lines of the
or advancement than the compulsion a
system entails in some cases. While a system of roads may be necessary in some nect, yet it does not seem to me that the tion to the automobilists to drive the farmers these roads. Nor can county municipali either in road or bridge construction, money so economically as the ownships.
is the alternative proposition hy which the vincial Government may assist? From 1 20 per cent. of the road mileage of each township is what may be termed " main roads," i.e., roads
leading to villages and towns, or connecting these. Let the "Act for the Improvement Public Highways" be so a mended that the ships may deal directly with the Government, shall agree to assist to the same extent as is
offered approved county systems, viz., $331-3$ per cent. of all road, bridge and culvert improvement on 15 or 20 per cent. of the road mileage of the townships, such roads to be shown on maps
be submitted to the (overnment. The Town she submitted to the Government. The Town fer as to the specifications which shall be adopted
by and suited to the needs and situation of by and suited to the needs and situation of each
township, and all work done accordine to specifications shall receive the proportion these Sistance paid. In townships in which the Statute lands bordering on these roads mav, in whole for in part, be commuted, and placed to the credit of
a fund which shall assist in maintaining these improved roads. In conclusion, I wish to say that I think the
roads of the Province are suffering, not so much because of ignorance of the principles of roadmaking, as from the neglect of municipal bodies
to adopt and apply uniform specifications, and from. the absence of a strong public opinion, not excessively strong in the spring, when roads are very bad, and lapsing into listlessness and a feel-
ng that our roads are good enough, as the seaing that our roads are good enough, as the sea-
on advances to fine weather, and waxing at ax time into strong condemnation of the municpal council which will be courageous enough to解 ASSOCIATION.

more water, and gave lighter bread of better shape and
hexture.
The
hard Red Red Pite
four earned 101

Sthat white club wheat commands










 preveritives than hard wheats.



lons wator-has practically the sution, 44 orss. in 10 gal

more gevere
That ti is undoubterly satest to o use either bluestont


In the iscussion, Mr. C. H. Clark, Seed Commis


Should be taken from an anabsolutely smutratree cerop. sown

Mr Robertson undertook a fow years apo to grow






picking started he houterd there was a a decitiod differencen


nour huther deevoped than others, the fruit was not
Other vines had a few large tomatoos and many smanllor


mioother, are heavier cropers, mature more antry, shape. nad
stadity inproving. So tar the ress
had tar surphassed his expectations.

ort tuas taten from a healthy and vigerous tree, whice

The inv and shape
Mr. W. T. Macounn Horticultur rust. Centras Eax Expersimed b
Narm, ottawa. Accorting to the censusu of topert tho

-ivernty grown oby the best farmers, Mry Nacoun


Unola advised the members of the Canadian Seed grow.




- Slape, and doep in eye.
Mateoun urged spraying with hortanu mivury


Water Impregnated with Iron. It is generally held that the presence of irondeed, without removal of the iron, the water may be unfit for use. This removal, fortunately, is
not difficult or costly not difficult or costly; aeration is all that is
necessary necessary, The solubbe iron (rerrous) (ferric) compounds, and precipitated by blowing air through the water, or, more simply still, ,y exposure of the water in, comparatively speaking, thin layers.
This oxidation and precipitation takes place rapidThis oxidation and precipitation takes place rapid-
ly and within a short time is practically comly, and within a short time is practically com-
plete, leaving a colorless, clear water, that may be poured or fittered ons, and which contains but
traces of iron in solution, The deposit that forms
sel in which the water is exposed mey be removed by the use of a istle exposed, may be FRANK T. SHUTT, Chemist vinegar.

## THE DAIRY.

The Babcock Test for Butter-fat.
The following instructions on the use of the


Mowing a Good Clover Crop
and costs about $\$ 4.50$.
$\xrightarrow[\text { COMPOSITE }]{\text { TESTING }}$
sAMPLE

pler or more act
curate method of curate method of of
testing for f or
has been devised testing for fat $\begin{aligned} & \text { has } \\ & \text { than teevised } \\ & \text { the well- }\end{aligned}$ than the well-
known B a bo ock
milk tester known Babcock
milk tester. With
a littie more prach milk tester. With
a little more prac-
tice, there is no tice, there is is no
reason why the
careful reason why the
careful farmer (or
some careful farmer
some methodical
member member of th household) shoul not do his ow
milk testing with
the Babcock ma the Babcock ma
A two-bottle machine is the smallest made,

On account of the strong, dritting winds prevelent in
the spring, fairly doep seeding, 2 to 3 inches, ga.e be: results.
The Red Fite variety of wheat continued to stand out head and shoulders above ull competitors. The
germinating properties of all seed grain should
be tested before sowing, says Mr. Motherwell, as experience
has tausht us that has taught us that a good, even, robust "catcch" of
whent in the West is the batule hall won. Re the amount of seed to sow per acre, the only
safe guide to follow was individual experience on indil vidual farms. If it a mocality where early autum
frosts are fared. fairly thick sedinn frosts are feared, fairly thick seeding, 1 tit to 2 buumbel.
per acre, should be practiced to hasten maturity drouth is more to be forearmed argainst, then a hall
bushel less seed per acre will invariably give better re

## Plowing for Fall Wheat.

There is no better preparation for fall wheat-
sowing than a clover or sowing than a clover or other sod, plowed down
in July, and rolled and harrowed in July, and rolled and harrowed immediately
after, to hasten the decomposition of the Then the land should be harrowed after each rain to firm it and conserve the moisture in it, so that the wheat will grow vigorously and the winter winds and frosts. Advantage may be taken of a wet spell in haying or harvest, or while waiting for a crop to ripen, keeping the teams at work plowing a piece of clover or barley stubble,
or a p pasture field that can be spared, for prepara tion for wheat, and, if possible, the rolling and harrowing should follow the plow promptly, in
order to secure the greatest benefit for the pur${ }^{\text {poses above indicated. }}$ There may not
to sell, but it is a nice crop to handle. The seat ing and harvesting generally comes at at at aime
when other farm work is not pressing. It is a when other farm work is not pressing. It is a
good crop with which to sow timothy and clover good crop with which to sow timothy and clover
seeds for seding down. The straw comes useful
Ior beddip for bedding, and the chaff for feeding stock, so that, on the whole, it it a useful crop to grow, at least to a limited extent. What is needed in
order to give the wheat a good stand and a
bricht bright prosect is a reasonably rich soill, worked
to a tolerably fine tith, to retain moisture and to a tolerably fine tilth, to retan moisture and
nrake the land firm, to hold the roots of the
s, 10,12 and 24 bottles. Where teem is avail-
able, the steam turbine tester will be found the host convenient and satisfactory. About 45 pounds steam pressure is required
It is advisable to mix any cream that may have arisen on the composite sample, by pouring he milk carefully two or three times from one churning may result. ${ }^{\text {Do }}$ The test is is worse than useless-quite misleading, in fact-unless the cream is thoroughly mixed with the milk, and the sample taken is a fair average of the milk to be tested. Some samples may be required to be
warmed in hot water to about 110 degrees n order to loosen the cream which has become attached to the sides of the bottle. Should a sample be sour and thick, add a small quantity
of powdered lye, mixing it in thoroughly till the curd is dissolved and the milk becomes fuid
again. ${ }^{\text {again. }}$
of the thoroughly mixed milk hy a small sample slightly above the mark on the upper part of the
stem stem. Place the forefinger quickly on the top of
the pipette to retaing the pipertte itte to retain the milk, and hold the Allow the excess of milk to slowly drip out oy allowing a little air to enter under the finger,
until the surface of the milk stands exectly the level of the mark milk stands exactly at pipette. Place the lower end of the pipette in the neck of the test bottle, not too far in, release the pressure, and allow the milk to flow
down the side pipette and bottle slightly inclined the air will be allowed to escape, without bubbling and causing loss of milk. Blow the remaining drop from acid bring the milk to a temperare adding the crees $F$.

AdDing the acid.
Procure good commercial sulphuric acid, hav ing a specific gravity of 1.82 or 1.83 . Keep the stopper. If an acid burette or other measuring device is not used, the acid may be poured from
small-mouthed earthen a small-mouthed earthen or glass pitcher into
the 17.5 c.c. acid measure, which is usually sup the $17.5 \mathrm{c} . \mathrm{c}$. acid meas
plied with the machine.
suiphuric acid（oil of vitriol），as it is intensely cor－
rosive，and will burn the skin or clothing ly should it come in contact with either．Any stray drops should be wiped up immediately，us－
ing plenty of water ing plenty of water．It is a good plan to have help to counteract any burning of skin or clothes， if applied immediately．
Holding the test bottle containing the milk at a moderate slant，pour the 17.5 c ．c．acid in very side of the neck，and，on no account，to drop straight onto the surface of the milk．The acid
and milk will form two distinct layers，with the and milk will form two distinct layers，with the
acid at the bottom，showing a slight brownish
a coloration where they showing a slight brownish
at 60 degrees F ．Have the acid also at 60 degrees $F$
The milk and the acid may be mixed by giv－
ing the bottles a careful rotary motion must be very cautiously dotary motion．This any curd into the neck．Continue shaking until all the clots are completely dissolved．Be care－ WHIRLIN
When the milk and acid are thoroughly mixed place the bottles in the machine so arranged a to balance it．If an odd number of samples are may be placed in the machine to make it smoothly．Precaution must be taken to keep fat melted，but do not let the temperature above 130 degrees $F$ ．Hot water may be put
in the body of the tester to keep the samples
The bottles should be whirled for five minutes will vary from 700 indicated on the machine．This machine twenty inches in dians per ninute for for machines of smaller diameter．
team，water，preferably rain water or condensed now be added to each bottle 135 degrees F ．must be used if about 10 c ．c．of sulphuric acid ter may o each gallon．A convenient method is to use cock and a rubber tubsing，provided with a pinch cock and a glass tip like an eye－dropper，leading than the machine．Add enough water to highe the mixture up to the base of the neck，and whir
or one minute． to about the 8 or 9 per cent． of the test bottle，and whirl for another minute The fat should be quite clear and golden in color when the test is finished．If the fat is very light more acid，as it is probably of curd，use a trifle
weak．If the fat appears burnt or cloudy，use slightly If the fat and see that the temperatures of milk and acid READING THE TEST Hold $t$
upright upright．With a pair of dividere，and perfect on the zero mark，when the mark on one point touched by the other point will indicate the per－
centage of fat． Each large
bered 1，2，etc．，up to 10，represents neck，num－ of fat．Each small division represents two－tenths of one per cent．Thus，if reading without divid－
ers，and the top of the fat ers，and the top of the fat column is at 7.2 ，wit
the bottom at 3.3 ，the sample tested contains 3 ． per cent of fat．If there are many readings take，keep the fat melted by placing the bottles
in water at 130 degrees $F$ ．，reaching to the top the fat solidifies，and always kept emptied before A suitable brush may be obtained for cleaning the
necks．Hot water and some commop shot will aENERAL．
The weight of each cow＇s milk should be re－
corded on three days only during every month．
We believe that a larger number af We believe that a larger number of farmers than if more frequent weighings were proposed At the same time，we believe most fully that the daily records．By noting daily paid for making
the weight of milk the mations in the weight of milk，the matter is forced on his a
tention，and a study of the causes naturally tention，and a study of the causes naturally fo
lows．Those who take an intelligent interest the work on the three－days－a－month basis will ing．It does not follow that the milk need be daily． simply weigh and test the milk of his cows．In－ telligent action must follow in the treeding and selection of animals．The feeding question must tion that daily weighings will be of great service Farmers should not invest in pure－breds，unless
they are satisfied that there is performance with pedigree，and that behind each animal there is a

## Gravity Cream Not Wanted． <br> conversation

$\qquad$ creamery，which was a cream－gathering one，would for so doing were valid ones，cream．His reasons Cream obtained by the gravity process varies in fat percentage，the cream sometimes being ver such variations，and therefore As a result dissatisfaction results，and much damage is done to the business of the creamery in the district as one dissatisfied patron is a prolific breeder of cream，being uniform，such trouble，so Sisturator to business and wasteful of time and good temper does not occur．The hand cream－separator has many other qualities to recommend it to the
farmers，inasmuch as it saves the cream，and renders，the labor incident to dairying less and by the older methods．
The person anxious
The person anxious to develop the dairy sid
of his farming operations，will therefore find it
imperntive to imperative to purchase a cream separator if transplanted beets are being sold．Early
matoes look well．The second bloom matoes is a failure． Large quantities of onions are grown at Scot
iand．Weeds have got the best of growers in this section，and $a$ number of the will have to be replanted．The maggot is also
doing injury doing injury．
The acreace ncreased during the last es around Hamilton has 16 per cent．The tomato outlook is not as promising as earlier in the season．The plants
are small，and the acreage not as year．
Hardy vegetables at and as large as last vell．On low ground melons Falls are doing killed and beans injured．The cabbage maggot prevalent．The heavy frost onion maggot is injured the crops around Chatham．June has At ounty onions are also injured，but may recover most cases，although thinly in others．well it shipments are likely during July，but large ones
wishes the largest returns at the least possible
expenditure of time，labor and monev． expenditure of time，labor and money－［Th
Farmer＇s Advocate，Winnipeg

Phases of the Creameryman＇s Sphere of Influence．
Besides being able to make a good quality
butter，said C！W．Fryhofar in Massachusetts dairymen，the buttermaker before be qualified to fill other needs，namely：（1）Hold of all be able to secure the respect and confidence patrons in proper methods of handling milk his of dairy（3）to advise with them on all problems methods ；（5）he should constantly correct wrong eate the farmer to secure from his herd by in－ quantity in milk production and greater should co－operate with the farmer in ceamerymen greater milk production，as well as the establish－
ment of improved handling of milk and sanitary methods in the

Mr．Primrose Micos
percentage of butter－fat puts a poser
percentage of butter－fat can be modified by feed
ing，why not modify it，and save all trouble
about a standard．
It is believed in trade circles that the Chicase
packing－house expreser packing－house exposures are having the effect of
diverting a good many Old Country consumers
from meat
from meat to cheese．
The Trade Bulletin，Montreal，says the United season than she did a year ago．New York this
ments to Liverpooi and London heing 91.634 boxes，as compared with 17,400 boxes for th．
same period last year．Almost the entin from Nevv York this year has gone to Liverpool
and London

## GARDEN ORCHARD

 I August．There is an increase of 25 per cent． $n$ the crops，as compared with last season． Further north，at Sarnia，all kinds of vege－tables are looking well．Early tomatoes are above the average in acreage，but a week later in

Liquor for Preserving Show Fruits
fruits in for show purposes（not eating）．We want to preserve our several varieties of straw－
berries in liquor，and．if berries in liquor，and，if possible，preserve their An early reply will oblige Ans．A E．H．P． or preserving the various kinds of fruits in thied natural condition，but there are few，if any their com in which the fruit will retain its natural antiseptic preservatives for most of the best fruits，such as strawherries，red raspberries malin．This solution is best made on or for lowing formula：Formalin（Formaldehyde），one
pound（16 ozs．）：
Water， 44 pounds：alcohol， 5 pints．Strawberries，and most fruits of this and the best way to keep them down in it is to
and the fruit with cut the fruit with long stems and fasten them center of the jar．The or branch placed in the will answer the purpose very well．It is best to
keep them in a cool，dark place until the time of exhibition，as the color fades more rapidly when We have never tried tomatoes in any of these
antiseptic fluids，but for any of the red varieties the formalin solution would probably be the best
that could be used． Yellow fruits of all kind are preserved in a
solution of sulphurus acid－one pint of sulphurus acid． 8 pints of water，one pint of alcohol．
Of course．none of the fruits put up in such a way are fit for，table use
（）．A．C．，Guellh，（Mnt．L．HUTT，
Horticulturist．

Ottawa Vegetable Crop Prospects in San Jose Scale Not Going to Devastate
June．
Ottawa Vegetable Crop Prospects in San Jose Scale Not Going to Devastate
June．
Ottawa Vegetable Crop Prospects in San Jose Scale Not Going to Devastate
June．
 this year is from one to two weeks behind lasi that，althougn the scate was a dangerous enemy，
year，owing to the frequent rains and warm weather．This condition prevails through asill destroy＂the fruit－hearing trees of the
out the Province．Warm weather is thalls． sult in a great improvement．The irequem rains imp is fone to native home．North China，noth－ growth of some crops，which has dome considey
able damage．Several of the corresinn that grubs and insects are theely to do great dam－in chow on shayme，amel the comemy is casily he he Around Ottawa the total acreage is about thentil the only safin proceeding is a control this pest， will be large crops．At both（ottarna and celer ably At maggot is troubling the onions considel
ably，At Nome some patches will haver
ceplanted．There matoes at Napere will be a large crop of the the In the vicinity of Burlington the maguot has bage and early cauliflower large crop．Early－planted from the cold weather：the later anms are domen
well．
Around Humber Bay more potatoes and con light crop．Maggots are reported as
early cabbage ；rhubarb will be a ligh

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## POULTRY

How to Get More for Our Dressed Poultry.
While in conversation with a high-class Mont
ceal poultry dealer last fall, he made the stat. ment that a farmer came into hatis sho one atate
days before and said he hail threr hundred a few days before and said he had three hundred Barrew
Rock cockerels to sell, weighing about six pounds each. When the produce dealer learned that the: were not fat, but were simply rumning the farm
he said he would not take them at any price, but if they were fed for several weeks in crates, a
the Poultry Division reconmended, he would at least one dollar each for them. This is but one case that shows why birds
should he fattened before they are marketed. Thi should he fattened before they are marketed. Thy
above produce dealer handled tons of chicks last
 his customers would rather pay a big price and
get a good article than buy an inimierior article at get a good article than my an interitor art cle at
a cheap price. There is no trouble o get a good a chying price for fat chicks, and the price would b,
peven better if the poor stuff tid not come even better if the poor stuff did not come imn
the market.
Nanve formere
 fermer, who wanted to sell his 300 chickens in
thin condition, was seling them just at the wors possithle time They had been reared on teree
range, and had become large, raw-boned specimens, range, and had tecome arge, raw ononed specimens,
having very vittlo of anthing oner bones but
skin and mustle. They were, however, in a moor skin and muscle. They were, however, in a yood
condition to put on flesh rapiclly, if properly fed. Supposing he had sold his birds at a good iricid
for such quality, say 8c. a pound, each bird would be worth 48 c . We will also suppose that for the
three weeks' feed the average gain was 1 poundthree weeks' feed the average gain was 1 pound-
which would be below the average with such trames-and that extra pound cost 5 c . this addi-
tional feed would put the cost of one bird at 53 c . but in his case this extra 5 c . made the selling
price $\$ 1.00$, or on 300 birids a total gain of $\$ 1141$ price 81.00 , or on 300 birds a total gain of $\$ 141$
This is not an extreme case. Let me take tive similar cases that can be vouched for, one in On-
ario and one in (uebec In one case a fariner
aut pret uil 340 chick nes, and fed them $\$ 30.10$, orth
of feed, These chickens would have brought on
 they sold for $\$ 223.95$, or a gain over the wost of chicks, that at the prevailing market price voculd
sell for $\$ 114.94$, were put into crates and fed feed amount ing to $\$ 31.60$, and when fat they sold tor
a 24710 or in other words. the extra $\$ 31$, 10 put $\$ 247.10$ or in other words, the extra $\$ 31,10$ fut
in feed made a revenue of $\$ 100.56$. It might bo wer inferior chicks were fens they were not only
orire Rocks and orvingtons, but they were of a goon hlochy type. and, above all, they had a plendid constitution, shey were from heal thy tresh air and exercise, goocl wholesome feed, but
not Figures 1 and 2 are very fair representations
of the type of breeting stok that should trotuce
good feeders. Note the strong, short legs, the Nood feeders. Note the strong, short legs, the
shape of the body, and the erect heads (No. 1 is not tuite so good in these respects as he might be)
the full eye, and the short. strong back that demotess strength and constitution. If we have not
constitution in our l,reecling stock. we might as


well go out of the business. (ireat care should be exercised in the selection of the breeding stock. be exercised in the selection of the breeding stock.

If we want something better, we must breed for it The mant who breeds frome inferior stock is not
only suffering himself, but he is doing every other only suffering himself, but he is doing every other
person engaged in poultry an injury. The sooner We can have a superior, uniform product, the more
there is in it for us.
Figure 3 shows a good type of cockerel, the

kind that will go into the crate and make profit. Figure 4 is a very good sample of 10 just as important that a chicken should have good legs under him as it is that a horse should. The
legs should bhort, straight, strong, and well set apart. No chicken with bow legs ever
amounted to much. Don't buy one, and never raise one. Note the difference in shape, sub-
stance and breast development of the two birds,
A good feeding bird has a bright eye and a strong beak. A narrow head, a weak eye, and a long thin beak, invariably denotes a weak constitution.
No. 4 will never be a good feeder, he will be the
first to take sick, and will never make a salable first to take sick, and will never make a salable
dressed carcass. Such chicks would be better
killed when first better, destroved two or three generations back,
by not brecding from the stock that produce them. by not breeding from the stock that produce them.
Farmers can very well fatten their own chicks; they have the feed at first cost, and a little time
will construct a crate or two. (hicks can be fed in crates with less trouble than when rumning at
large. Some farmers can also kill and dress them for the market, but there seems to be many wh
cannot, they have neither the time nor the in
cination and clination, and, owing to lack of practice, they
have not the ability to prepare their chicks as they should be for the market. The preparation
for market is developing into a business by itself, lower price, so long as they are relieved of the
killing and dressing. This would probably be the hetter way for farmers to do, if the prices
paid for the live birds were in keeping with the quality, but when bought alise by shippers, the
same price is often paid for anything with feathers man that has good stuff: but then, it averages
up with the poor culls his neighbor has, and thus
it goes. A much better way would be for farmers in a locality to co-operate, and let one man do farmer do his own fattening, but they could be probably gathered by one man; at any rate, the This would mean a higher price directly for the producer, and indirectly a higher price because of the uniformity of the product. All produce would be graded according to size and quality. The two
essentials of success in marketing poultry prod essentials of success in marketing poultry prod-
ucts are quality and uniformity, and such a system would aid materially in the production of a uniform article. No matter how careful a dozen
farmers are, their individual products will lack farmers are, their individual products will lack
more or less uniformity; but if these twelve men had al! their chicks put up by one man it would
be uniform. Produce dealers would rather do be uniform. Produce dealers would rather do
lusiness with one man for a neighborhood than with ten or twenty individual farmers in that neighborhood. It means less trouble and less
expense, and this means more for the producer expense, and this means more for the producer
and no middleman's commission. It brings the producer and the consumer closer together. Such a co-operation would not confine its efforts to dressed poultry: there is a much wider scope, even in fresh eggs in the winter season, and, in
fact, it is hard to say just where its benefits would end. The trouble with us, as farmers, is there is too much competition and too little Sation. A Pricultural Colle St Anne
Macdonald Agricultural College, St. Anne de
Rellevue, Que.

## APIARY.

## Bees Paid for a House

Those who are inclined to despise the profits of apiculture may read with surprise the following experience of a Wisconsin beekeeper, A. L. Kleeber, who paid for a house from one year's . The amount of honey sold was fourteen thousand pounds, at fifteen cents per pound, amounting to $\$ 2,100$. The expense was $\$ 100$,
besides our own labor. The increase of the apiary was an extra source of profit, but I kept no account of the bees sold. I had two hundred colonies of bees of the common black and Italian rarieties, and think there is but little difference n the amount of honey they gather. Experience has taught me that a cross between the two hreeds is preferable to either. My apiary is located about six miles north of a good-sized town. We use the common, eight-frame Langstroth hive,
with full super, using a $4 \uparrow \times 4 \ddagger \times 2$ inch section, With full super, using a $4 \underset{4}{x} \times 4 \times 2$-inch section,
with tin separators.
Our honey is gathered mostly from white clover and basswood, with some buckwheat. During the year in which the house was paid for we harvested seven tons of
comb honey. The quality in this section is supe rior. We winter our bees in the cellar.

Use petrolatum or vaseline, which are one and the same thing, instead of butter, for anointing the fingers for handling brood-frames, etc. There is no rancidity about petrolatum (petrolatum
ielly) and it is much cheaper and nicer than hutter. It effectually prevents the hands from being all smeared up with propolis.-[Gleanings.


## Honey as Food.

best foods,", Which is described as "one of nature" tario Department of Agriculture. In by the Onpointed out that it is only within the past feve centuries that sugar has become known, and only
within the have become so gow in trice that refined sugar commonly used in the poorest family. Formerl honey was the principal sweet, and it was highly was built..$;$ it would add greatly to the health
to of the present generation,", it is declared, "i honey could be at least partially restored to its
former place as a common article of diet Excessive use of sugar brings in its train a long list of ills. When sugar is taken into the
stomach it cannot be assimilated stomach it cannot be assimilated until frist
changed by vdigestion into grape sugar. Only
Ond too often the overtioxed into grape sugar. Only
stomach fails properly to
pertorm this ond perform this digestion, and then come sour stomach, and various phases of ind inestion sour
dyspepsia. In the laboratory of the hive and dyspepsia. In the laboratory of the hive the
honey has been fully prepared by the hees for prompt assimilation, without taxing either the stomach or kidneys, so that in eating honey the maintained.
Moreover, the same report says that many cases it will be a real economy to lessen the butter bill by letting honey in part take its place.
One pound of honey will One pound of honey will go as far as a pound of
butter, and, if both articles be of the same guality, the honey will cost the less. Honey is strongly recommended for children, while for per-
sons of all ages a pleasant and wholeso is called "German honey tea." This is made by pouring a teacupful of hot water on from one to

THE FARM BULLETIN
The potato-bug pest is increasing in Manitoba. No
district can grow potatoes in any quantity and remain immune from the ravages of this pest. Fortunately, Paris green is an eflective antidot
woman in Heldimand County about an inch below the eye, by a common honeybe

## The Toronto Horse Show


an envelope containing a dollar bill, to recoup him fo
the time spent in turning out. The wonder is that, with horses, and the tempting offers being made for highspecimens could be brought trade, so many excellent with hardly an exception, the horses were all owned in Toronto, though the show was open to all. This certainty that horse-breeding is bound to accentuate the able industry for many years to come, and that for tho sest specimens in all classes good paying prices may

## A Moral Drawn from the Post-office

 Surplus.evenue from the sale of postage stamps totalled $\$ 7$ $\$ 2,828,183$ as compared with $\$ 869.095$ over last year, and of ent Canadian letter rate obtained. The striking in crease in revenue, following the introduction of Imperial penny postage, and, subsequently, the domestic two-cent much of the increased use of the mails is due to creased population and increased prosperity, there doubt whatever that without these contributory facto the cheaper rate would still have induced freer use
the mails that would have almost made duction of postage toll. The people save a cent
dor every letter, and are able to afford to use a cent o
more largely, while business is meail more largely, while business is benefited directly and
indirectly. The low rates are thus
 with a view to maximum public utility can be operated with far more moderate charges than a service which is exploited for maximum profits to its investors
is good reason to beliove that dian rail way passenger rates from a three-cent single and five-cent return per mile to a straight two cents each
way, would result in enough more travelling Way, would result in enough more travelling to nearly
compensate for the reduced rate; while from the freer
communication communication would reduced rate; while from the freer country and to the railroads that handle its freight, express and passenger traffic. The trouble is the rail
ways are so greedily viewing the ready dollar the ways are so greedily viewing the ready dollar, that they
will be almost certain to delay the reduction of until absolutely compelled to change. Is it not time
for public opinion on the matter to assert itself ?

The Sooner the Better.

placing the responsibility for legislation where it hi-
longs, raise the standard of the House of Commons. A Butter-scoring Contest.
simplify the trancaction

## Temiskaming Railway Branch Lines.

The Automobile Question
1 have read with special interest your
June 28th, ro "The Automobile Nuisance," 28th, re "The Automobile Nuisance," upon whic import, and one which vitally concerns the farming cons munity.
think, wise and commend the Ontario Legislature is ciently radical for initial legislation: but and, suff more must be done before this question will be finally and satisfactorily settled. Meanwhile, let us note th effect of the present provisions. One thing is certain The farmers will not long submit to being driven off, or
being kept off, the roads which they have built and or maintaining. They will not so cringe before the pluto crats, or whatever the offenders may be designated; they will not so worship the god of wealth as to endure this cles, the limbs and lives of farmers and their families are jeopardized, and much serious damage has already have rights by reckless auto driving. If automobilists be respected, and certain compromises and regulative enforcements may serve to so mitigate the evil as to
render it endurable. ender it endurable. If, on the other hand, they have is rights, then those gentry ought to be debarred. How of special roads for the motor car, such as is cong Since, under our laws, the voice of the people is the ultimate determining power, I venture to suggest, for whole question be submitted to the parties, that the
country in some definite form, and that if found expedient or in socessame
general vote be taken thereon.

The Dog Show at Toronto.
The prize-list for the coming Rench Show, Sept cre oronto, is being mailed. The classes have they have added ans breeds. In Pointers and Setters nonths or under, as there has always dogs or bitches 18 epart of the breeder of this very popular a freeding on Class of this kind would be interesting to show the Toy dogs have aed the different ages. Toy dogs have been taken care of and the
Pomeranian classes increased and eranians of 8 pounds and over added. Amang for Pomfeatures, the sheep dog trials will be as popular, if no more so, than last year, and, altogether, everything i
pointing to an exceptionally cood show, pointing to an exceptionally wood show, and the Exhi
bition Committee is getting ready for an entry

Fair Dates for 1906

## Winnipeg Industrial Exhbibition........................July 23-28

 Canadian National, Toronto............................Aug. 27- $14-16$
St. John, N. B.................................... Sept. 6
Canada Central,
 Sussex, N. B. Grand Rapids............................ept. 10-14 Chatham, N. B. Syracuse ……................... Sept. 10-15 Dominion Exhbition, Halifax, N.S...............Sept. 20-14-21 Prince Edward Island Agr. and Industrial
Exhibition Provincial Exhibition...................................Oct. $8-12$ American Royal, Kansas City, Mo...............ct. 6-13
International, Chicago .................. Managers of fairs whose dates do not.e.....Dec. 10-1
Hepear wo our will confer a favor on our readers by sending in
their dates.
season. It is hoped that makers will take up
competition enthusiustically. Following will be found particulars and instrust rules and instructions. Offcers of Associations-Thos. Ballantyne, Strat ort
president, Western Dairymen's Association : (ieo. Bart

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The Rose Cbafer


Road Improvements in Middlesex Countr, Ont.



Lindisfame, from Pitlivie. Carnoustie. bulls, Mr. Alex.
In a very fine class of two-year-old bull
Br Gordon, of Newton, Combs Causeway, Insch, was
fist with the gay ron, Fascinator, bred by Mr. James
Durno. Jackstown, Rothie-Norman, and got by Lord
I ynodich 74900 , out of a Favorite Blossom cow, by the
champion Tride of Collynie 752424 . The second, third
and serenth in the class are in the hands of the noted
adgeventh in the class are in the hands of the noted
udge and exhititor, Mr.. George Harrison, Gainford
Iall, Iarlington. The second and seventh were bred
Wumberland, and the third at Col'ynii, after Royal
Cdwaid. Mr. Henry Dudding had the fourth. In the sicond there is Henry Dudding had to to fourth. In the a dash of Bates, although
(is sire is Lord lictor.

England are La Belen, Clifton Road, Birkenhead. Th Sull which followed him in the class, Sir Richard $P$ Cooper's Meteor 86 j31, is, unfortunately, white; but for hide, it would be impossible to say how hi hi'h a price might be given for this bull. He shows himself well, and is level both above and below, while his depth and Ho was first at the Highland last year. The females, as is often the case, were, perhaps,
superior to the males. The first three in the yearling superior to the males. The first three in the yearling
class were exceptionally fine youngsters. The second, Mr. Basset't Queen of Brilliants 2nd, from Cornwall,
was got by Shamrock 84742, out of a cow by Baptón was got by Shamrock 84742, out of a cow by Bapton
Juan. She shows great gaiety, although lackitng the finish and extraordinary maturity of Mr. Deane Willis champion. Mr. Robert Taylor's third, from Carnoustie, 72609 . She deserved all her honors. In a big two year-old class, the spirited patron of all English stock,
Sir Oswald Mosley, Bart.,
 white, and a roan, respectively. They are home-bre two such heifers in the ring. One is by Regulator
Q4488, and the other'is by Beauty's Pride Oswald and the other is by Beauty's Pride three-year-old heifers in milk, with another red and white, named Proud Duchess, got by the sire of the second-prize two year-old, out of the dam of the first-prize two-year-
old. She was an easy winner in her class! It does not fall to the lot of many Shorthorn cows to be dam of two first-prize winners at a show like the Royal in the same season. Sir Oswald is one of the mos dam of these two first-prize winners, was got by Lord La wrence 72889. Mr. Taylor, Pitlivie, was second in the three-year-old class, with the Cumberland-bred heifer Silver May, got by the Scots bull, Stoneytown Pric heifer, named Ruby 4th, bred by Messrs. Peterkin, Conon Bridge, Ross-shire, and got by the celebrated Collyni Conqueror 78609. There was a very fine class of olde ows in milk. His Majesty the King was first, wit
his big red cow, Sylph, now five years old, and got by the $800-\mathrm{gs}$. bull, Royal Duke, the champion in his time of England, Scotland and Ireland. Sylph has been a
great winner in her time. She was frst at the Bighgreat winner in her lime. She was frst at the High-
land and, I think, also at the Royal when She has become rather rough about the tail root, but her merits otherwise were regarded. with such favor that the two judges differed as between her and the The umpire, who was judging the Lincoln Reds, gave the preference to the younger animal; Sylph then standing reserve. The second-prize cow in unilk was Mr .
Taylor's Donside Princess, the' Edinburgh chamion, which, although lacking the wealth and substance of the King's cow, is, perhaps, the truer to breed character and type. She is what one would call a very bonnie white cow, White Heather, from Guapton The famous third. She begins to show signs of wear. Linksfield Champion was the reserve champion bull.
After the Shorthorns, the Jerseys were

$$
\begin{aligned}
& \text { After the Shorthorns, the Jerseys were the strongest } \\
& \text { cattle section. The Aberdeen-Angus and Galloway }
\end{aligned}
$$

$$
\begin{aligned}
& \text { cattle section. The Aberdeen-Angus and Galloway } \\
& \text { breeds wore worthily represented; Mr. John Ounning } \\
& \text { ham, Tarbreoch. Danheatio }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ham, Tarbrech, Dalbeattie, taking both male and fo } \\
& \text { male championships for Gallowas. with Chanealo }
\end{aligned}
$$

$$
\begin{aligned}
& \text { male chapionships for Galloways, with CCancellor of } \\
& \text { Balityboley and Doris of Denhamhill, respectively. The }
\end{aligned}
$$

$$
\begin{aligned}
& \text { A.-A. champion male was Colonel Smith Grant's Prince } \\
& \text { A.A. }
\end{aligned}
$$

Forest, bred at Ballindalloch, and the champion female,
Mr. Greenfeld's cow from Haynes Park, Hedford. Ayr

$$
\begin{aligned}
& \text { shires were poorly represented for numbers. Mr. Cross, } \\
& \text { of Knockdon, won for cows, with two cood }
\end{aligned}
$$

the winner having been second at Ayr in call in Apri,

$$
\begin{aligned}
& \text { The bull class witnessed a reversal of this season's } \\
& \text { previous form. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { previous form. First prize was awarded to Mr. Howie's } \\
& \text { Wynflette, and second to Mr. Barr's Yomosal. }
\end{aligned}
$$

The horse section was well filed, so far as Shires,
Hunters and Hackneys were concerned. There was only

$$
\begin{aligned}
& \text { Craigie Mains, Kilmarnock, was first in two classes, } \\
& \text { with Blyth Thomas and Rienzi, respectively, and toold } \\
& \text { tho mato }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Drawdykes, Carlisle, took the female championship with } \\
& \text { his famous Cedric Princess, the Seaham Harbor Stud }
\end{aligned}
$$

$$
\begin{aligned}
& \text { his famous Cedric Princess, the Seaham Harbor Stud } \\
& \text { (Ltd.) being reserve, with a grand three-year-old. Silve }
\end{aligned}
$$

## Good Crops East and West.

## June rains and summer sunshine all over the grain belt of Western Canada have set the crons

 such luxuriance that everyone is in an optimistic mood. than have existed the past few weeks. The councry is Hard great promise of plenty. Lakes. if we except certain restricted areas of the Great ter-killing of meadows, or summer drouth, have scarredthe prospect. On the whole, 1908 should bo soen

## Soot for Turnip Fly

$\qquad$ repellant of the turnip fly. "Get some soot,", effective
as free from mortar or cinders as possible. 中ut muslin bag, and immerse in a vessel of water for three
hours. The bag acts as a sieve. Saturate the top


MARKETS.

## Toronto.

Receipts of live stock st. the City and
Junction markets were not large, but
mater

 at a
dut,
dower.
Tower,
Exporters-Shipp
Es.15

 cwt.
 ${ }^{25 \mathrm{c}} \mathrm{tions.}^{\text {per cwt. }}$ Prime lower, than last quotaheifors and stee: s, $\$ 4.80$ to $\$ 5$ fer cut

 Stail-ed cows, 83.75 to 84.40 canners
and grass cows, $\$ 2.50$ to $\$ 3.25$ per cwt. Stockers and Feeesrs-Rectiots ha
been lieht been light, but more than equal to th
demand. Prices are reported demand. Prices are reported as bein
steady at following quot, tions: Steen


 Milch Cows-Receipt springers have teeen moterate, and trade

 to $\$ 85$; inferior, $\$ 20$ to $\$ 28$ (ach. $\$ 3$ Veal Calves-Receipts of ve.1 cal have been moderate. The quality of
buik of the calves being marketed good, too few well-inished marketed is not corward. Notwinhstanding $\left.\begin{array}{l}\text { lots comin } \\ \text { this }\end{array}\right)$
 several weeks. The bulk are selm ing at at
85 to 9.5 .50 per cwt.; with good to p an
 Sheep and Lambs-Reeipts last weel
were the largest of the
 easier.
Export
ewes,
84t to
\& cwt. ; export bucks, 83.50 to $\$ 8375$ per
cwt. $;$ light handy butchers' cwt.; ; ight handy butchers' sheep of goo
quaily, $\$ 4.50$ to $\$ 5$ rer cwt.
$\$ 30$,


 are for still higher prices, and for an early fullil ment of our predictions that
hog prices would go to $\$ 8$ per cwt hagrens who have kept on raising hogs
when prices were low are certe when phices were pow, are ceising hags
having their innings now, and have been having their innings now, and have been
for some months past. Hor some months past.
Hopres-There is ittle that is new
report in regard to the horse marlo Monday being Dominion Dha, there was no
The main demand on the Toronto hores market is for workes and delivery
horses. horses. The feature of the market to-
day is the demand for ponies, and these are selling at high pries. The market is not nearly so good as it has heen
Burns \& Sheppard, of the Repository, rity Burns \& Sheppard, of the Repository,
port the toll sters 15 to 16 hands, 8125 to $\$ 1$
Singmio cots and carriage horses, 15




 drivers, $\$ 50$ to $\$ 60$.

tubs,
strong at 12c. to $12 \frac{1}{4} \mathrm{c}$.
Poultry - Heceipts
easier.
weight:
2or

$\underset{\text { Potatoes -G ood }}{\text { stock; market firm. }}$. ${ }_{\text {demand }}^{\text {Car }}$
$\begin{aligned} & \text { stock; market frm. } \\ & \text { at Torronto, Eastern Iots, on } \\ & \text { Delawares, } \\ & \$ 1.0\end{aligned}$

## THE CANADIAN BANK OF COMMERCE

Pald-up Capital, $\mathbf{\$ 1 0 , 0 0 0 , 0 0 0}$. Reserve Fund, $\$ 4,500,000$ head office, TORONTO
E. E. WALKER, General Manager ALEX. LAIRD, Asst. Gen' Manager BANK MONEY ORDERS

These Orders are Payable at Par at any office in Canada of a Chartered Bank
(Yukon excepted), and at the prit (Yukon excepted), and at the principal banking points in the United States.
THE CANADIAN bANK OF COMMERCE, LONDON, ENG. They form an excellent method of remitting small sume of money with sefety and at amall cost.
81.15 rer bag; Ont
S1 to $\$ 1.0 \mathrm{~L}$ per bag.
Hay - Res.

Montreal.
 Straw-Bale fi, stendy at 85.50 to $\$ 6$
per tou for car lot, on track Beans- Demand light. Prices
hanged. \$1.75. to $\$ 1.80$, prine, 81.50 quoted 81.60
indergrades, $\$ 1.50$ to $\$ 1 . c 0$ per bust Honey-Market quiet. Prices ste dy at at
9 9. 10 10. per ib. for strainelt; andid 81.50 to $\$ 2$ per doz. ib. for contras. Onions-Yer sack, $\mathbf{S P}_{2} .50$.
Hops-Market dull at 14 c . to 1 cc . rolad. BReadstuffs.

 Toronto 188 c c, west, and 39 c ., enst
Peas--Prices num
 Rye-Nominal, at 62 c .
Barley $-\mathrm{No}_{\mathrm{o}}$ 2, nominal, at 52 c . Flour-Market not quite as firm ;
 $\$ 4.10$; bakers', $\$ 8$ to 84.
Millteed-Market easier for bran; $\$ 15$ to 815.50, in bulk, outside. Shorts are
loted at 818 to $\$ 18$. hides and tallow.

Cheese Board Prices.

## 



Chicago

British Catule Markets.

Contents of this Issue.






 and horses tre hactany


 тин мпии
$\qquad$

 We the the malk
 "anhex axp onchakn


[ifx, Giteratitre
 How One Cemetery was Improved.


the reader probably considered how
several of these might be introd
in a greater in a greater or less degree, in the ex manual training, domestic scienc and school gardening, are not de teachers and expensive equipment The negative made an unnecessar Concession in saying that consolida-
tion makes the introduction of these tion makes the introduction of these
subjects possible. Any teacher who has proven his competence to teach
arithmetic well, can train himself or be trained to teach these subject of the belief that these subjects can not be taught in the single rural school does great harm to the and they should be taught. They will, too, when trustees advertise for teachers competent to teach them. the educational value of tasteful attractive school buildings and sur roundings. In every district in the township there might te, there should and taste. This is one particular in which the balance of possibility inclines in favor of the single rural
school. Sir Wm. Macdonald's generosity may prove not less beneficial to the the possibilitities of the present syspartial displacement by the consoli

## The Consolidated School from

 the Standpoint of the Parent and the Pupil.
## School at Ciuelph Consolidate

 close of its second year, we are acquiring more data on which to base of this experiment in advanced meth ods of education. This article will however, present the school from thestandpoint of the parent and the standpoint of the parent and the
pupil, rather than from the side of the educationist.
Ten or fifteen years ago, when
visiting a country school in winter visiting a country school in winter
time, it was common to see in the back seats three or four young men who were perhaps old enough to be curling their first moustache. These
young men were usually the eldest young men were usually the eldest
sons of the farmers of the section who, as soon as they were old
enough to drive a team, had been kept at home to help with the spring
seeding, and when seeding it was scarcely worth while to ostart
for the month before holidays, they were kept home until fall, and the harrowing for the fall seeding. colucation until they were yound little men, and themselves felt the need of at least a knowledge of the three
R's. There are still these eldest
sons. who havo home and who are feeling the at aed dom go to school in winter, perhaps
domel
becanse more stock is because more stock is kept, on the
farm and they are more needed in darm and they are more needed in
winter, but also because the school
teachers have changed. leachers have changed; we now have
largely young men and women, or
big boys and girls,
ers, instead of middle-aged married men. Public-school teaching is sion. During the past winter Principal Hotson opened a class for the young
men of the five districts solidated school. His ifforts conrewarded by an average attendance of thirteen young men, of whom ten were over twenty years of age. That these young men appreciated the lowing account given by one of them: " The summer I was twelve we were building a barn at home, and
stopped school about the first April, and, as I was very useful, I did not go back again. When I stopped school I was just beginning
to read books, but as I was busy, I did but little reading, and as my father did all the business, I did even less figuring, and in a few
years I began to feel that I gotten almost all that I had learned. This winter, with two other young men from my section, I started to confess, to get the manual training However, we found the whole cours very practioal, for we received regular lessons in farm bookkeeping,
arithmetic, spelling, manual traing ing, and stock and grain judging We each sketched a plan of our home farm, and, from our practical knowledge of farm operations, figured the whole farm. We studied methods or keeping an account of the stock on the farm, and for tabulating each
animal. We learned to spell all the words in ordinary use on the farm and to write accounts of farm operawere given training in knotting, we splicing ropes, repairing farm tools and implements, and a study of the various kinds of woods and their went up to the College for week we in judging live stock and grain, and The recognizing weeds and weed seeds. The course was to have lasted six
weeks, but we were so much inter ested that we continued much intil April 1 st, or for three months. I had but mht my school days were over, course, for both the pleasure for this profit I received With regard to this winter course while there were only two or that, from each section, not enough to make it worth while to have a special class in a rural school, yet
the thirteen from the five section made a good class in the consolidat ed school. F'urther, no rural schoo could offer the inducements afforded ed school. It might be suggested that next winter a similar course in Finglish, arithmetic, domestic science, domestic art, and sewing, might be
given for the older girls of these sections. The posibility The possibility of making the
school so attractive to children that school so attractive to children tha
they would really want they would really want to go to
school used to be a question for dis cussion at teachers' conventions The Macdonald Consolidated Schools
have effectually solved this problem have effectually solved this problem
I have often seen small children cryin because they did not want to go to
school, but never until I came to

THE FARMER'S ADVOCATE.
FOUNDED 1866

Guelph have I seen children crying because they wanted to go and
could not. Here I have seen a gold-en-haired little maiden crying when, told her she must remain at home for a few days; and I have heard a father say that he knew of no way
in which he could punish his children more than by keeping them home from school. Among nearly home 240 children attending the consolidated
school, I have only found ene boy school,
Who did not prefer the consolidated to the separate-section school. This
boy came from a home in which boy came from a home in which the
parents objected to the new method and were unwise enough to allow their objection to spread to their children.
It is not because the course at the more attractive, that the children like it so much. Manual training domestic science, nature study, and
school-garden work, are additions to the subjects of the rural-school course, but are not allowed to inter fere with the progress in those sub-
jects which must always be the foundation of a public-school education The children enjoy making and doing proud moment for the small girls of some biscuits or some serving which they have themselves made, and both
girls and boys enjoy picking flowers girls and boys enjoy picking flowers
and vegetable in their own small gardens. Many of the children also duplicate at home what they are doing at school, and this spring I
watched a small boy of eight and his alnost baby brother make up a garden plot, mark it off, and plant
it with vegetable and fower seds With vegetable and flower seeds. pupils and many parents, Io many found but one serious objection consolidation, the increased cost oi
maintenance. Let us briefly examine this objection. One farmer said it was now costing him four dollars and to send his children to school, and he would not pay a dollar more.
This man lived in No. 4 section, and his schooi rate was $12-10$ mills. Had he lived in the City of Guelph his rate would have been 8 mills, or
nearly seven times as much as he pays at present. Another man who sees the bright side of things, said he was paying 90 c . a year for th $\$ 1.00$ a year for tog tax meeting of the Ontario Educational Society in Toronto, some rura rise in teachers' salaries about th crease in the school rate. Dr. Gog ghin, a prominent educationist, aske school taxes, and section paid fo \$450. His reply was, think you are all better off than a year ior the education of m in cost at the Macdonald School at
Guelph is owing to the very larg Guelph is owing to the very large
expense for transporting the chi dren. This alone costs $\$ 3,400$, an
were tions lie on both sides of the city less. As it is six of the eight van drive more than two miles through the city before reaching the limits of their school sections. Were it no
for the city the distance would be much shorter, and also the children
of nearly two sections might walk, thus reducing the cost by $\$ 600$ or the five sections averages $12-10$ mills, and when the whote cost of maintenance must he borne, the rate
will increase to $34-10$ mills. is still much short of the average city school rate. Which is somewhat
over 8 mills. Further, it may be expected that, owing to the increase
in the county grant. this rate will in the county grant the consolidater schools in twenty-two States of the Union, 84
Union, 84 per cent. report a decrease report the same ra An excellent featu education of the consolidated school
the influence which the children
have on their homes and parents.
As the children talk and ask questions about their nature-study, bird insect and plant life, flowers and vegetables, those at home become take a greater pleasure in nature Also, many of the operations in the school garden are good object lessons of the advantages of modern
methods of prevention and cure. After three years' trial I vinced that the advantages of consolidation will have been amply proven, even under the unfavorable
circumstances at Guelph, and I feel confident that when, according to the present agreement, the assistance
from the Micclonald from the Macdonald fund will be dis-
continued on June 30th. 1907 the interested farmers of these five sections will not consent to a return to
the old system but will the old system, but will demand that,
in the interests of the growing generation, the objectors, mainly $\begin{gathered}\text { gron- }\end{gathered}$ bachelors, and those whose children are no longer of a school age, bear
their share of the expense, and con-


Current Comment
Sir Thomas Shaughnessy, President of the Canadian Pacific Railway Co. year's wheat crop is ready to move 150 miles of their road between Win nipeg and Fort William
double-tracked. The C. P. R. now has 900 miles of new roadway under construction.
It has been a matter of disappoint ment to Canadians that the Argo-
nauts, participating in the Henley regatta, England, failed for the third Cupe to win the Grand Challenge Championship at eight-oared rowing The first attempt was in 1899, when they won the first heat. In 1902 they tried again, with similar refirst heat from. First Trinity, in 7.20 and in the second disposed of the
Thames R. C. in 7.04 , but in the third were beaten in 7.09 by Trinity

© Now I Know the Cause of All My I'digestion!

## Inoculating Mental Qualities.

 papper article) by a Yanke ecreamery-
papan, our racy contemporary, the
mand
Irish homestead, indulpe in a Hitbernian speculationges in a truly
bilities that lie ahead of the homan race in the line of inoculation. It
says
Ne . We take off our hats to this
energetic man energetic man We belong to this
entetce race which is being swept off the face of the carth, but we have
sufficient generosity leit to acknowl-
edge that the race which is going to inherit the earth is able to do its
business properly. We wish the scence of inoculation were more de-
veloped, as a pure culture of some
electrically agers could be of the greatest service
to us. We have no doult the youth
of the future will be inoculated, not of the future will be inoculated, not
merely for the negative purpose of
preventing disease, but for the posi-
tive purpose of pivine thot tive purpose of giving them qualities
of energy and mind which thay lack
at present Wi will at present at present. We will have a Danish German inoculation for steadiness. and a French inoculation for paict,
We will have some powerful line We will have some powerful titue
specimens on show then.,
but the birth-pains of Russian Lib-
erty, and the fight will not end until an ample measure has been gained. Regret the situation
though we may though we may, regret the means, or pity the dynasty, who of us Canadians would stay the revolution it we could ? Russia was slow of public liberty. She is a ideal. behind other European nations Che race, but at last she will be free. and those who would oppose the country or be engulfed in the cat ut who Thall price of liberty is high far in the world's history, the fact that revolution follows oppression action are equal, and as the greater sponding reaction, so the more high handed the oppression, the more $r_{2}$

Odds and Ends.
The patent office gives many sururices Calorit is one of the latest. It is a can
of tomato soup. but not by any means few holes in one The punching of a sputter, and steam precisely as if were
boiling, and it is doing that very thing
After a few moments the After a few moments the can may be opened at the other end, and hot to-
mato soup immediately served. Had the contents been aty other kind of soup,
cocoa, or coffee, the results would have heen the same. The secret of this fre is
that in the bottom of of quicklime, and one of cold wat a laye punching of the holes in the can allows
The water to come in contact with the
lime-lHome M.

The newest thing in building blocts is
the use of gla:s. A bank building and Whurch are proposed to be ereected in
Ies Mc ines, Iowa. The will will bo
louble, with a font of dend cwern, of milk-white op opaleascent glase space be
iourth of on an inch thich, securely fixed steel frames, which are, securecly fixed in
In a building such as this together
In tal ventilation, no win lows are necheded.
the elight passing clear through the walls.
In wet weather these whlls wol In wit weather thear wrough the walls.
cleanin!s, and in asdition there wo. selfcleanin,s, and in addition there would be
no dark corners, since the light could
penetrate to every wnit af the Penetrate to every part of the building.
The exterior effect will resemble a highty molished marble wall, with glass orya-
mentation in imitation of onyx. It will
not bo long before houses come to be
liuilt of the same light. hypienic
Luther Burbank is making experiments to produce new po:otoes- tubers that
may ecripse any other yet given to man. It
mayy siem almost average sim almost incomprehensit to to the the
reader should a statement be (1,000 varieties of potatoes with more thich he And experimenting, y of surh is the face thousands of all sorts And conditions are tousands of all sorts
bettur varieties new and
that may completely "orld. Another creation and proforduction of the potato experiments, but is evend a "potaterful. fruit." Burbank has produced
Rriefly summarized,
the evolution is luscious whert. frut, from the potato vine unt prespryy. Matle Mand mahes an excel- $(\square)$

Mozart's Skull.

JULY 12, 1906
The Quiet Hour.
Helping to Bear Christ's Burden. And as they led Him away, they laid
hold apon one Simon, a Cryenian, com-
ing out of the country, and on him they Ing out on the country, and on him they
laiter the cross, that he might bear it
aite Tesus.-St. after Josus,- - I cried, " why may I not forO God,
$\substack{\text { get } \\ \text { These } \\ \text { Thro }}$ Throng me yet.
Am I their keeper Am 1 their keeper ? Only I -to bear
This constant burden of their grief and
cara
Why must I sulfer for their grief and Why must I suffer for the others' sin ?
Would that my cyes had never opened been! ", "orn-crowned urrd Patient Ono
And the the
Replied, ". They thronged Me too ; I too have seen."
" Thy other children go at will," I said,
Protesting stid Protesting still.
They go, unheding. But these sick and sad,
These blind and orphan, yea, and those
that $\underset{\substack{\text { that } \\ \text { Drag at } \\ \text { at my mean meart. } \\ \text { and } \\ \text { mroan }}}{ }$ For them I serve and groan.
Why ir it
tried + . Let me rest, Lord. I have
 - But, Lord, this ceaseless travail of my Soul!
This stress ! This orten fruitless toil
These souls to to win ! They are not mine."
 Divine
He
thuned
they are MINE.




## Though Christs gervants, are trod.


 possible, as St. John tells us, to love
Coo unless we love our brother, and if
we care tor him in the leats, we connot we care for him in the least, we cannot
help, tring to lift his burdens from him,
orp if that is impossible, at least sharing
or

 cherily, but also to bear the burdens of
other people. And they are dong it,
too in your neighborhood and in in this,

 like to tell you about it. This conven-
tion was only suggested about ten days
 Kaged in God's own work-for the Great
Sheophord says in will sek that which
wns lost, and bring axain that which whs
 which was sick." Though such work can-
not be energetically carried on without
seevere strain on body and soul, on the
 1y in the necessity it loving both the
wrk
otherf and the onidiviuals for whom
they worked, and did not forvet to em-
 did not think it wise to approach
strangers in the starting tashoo of the
barther who had been converted and was barber who had been converted and was
larning to convert somoone else without
delay. He got a customer well lathered.


THE FARMER'S ADVOCATE.
1113
chair, as he hastily fled, having entinely
migunderstood the good barber's intentions.
One told how she had gathered in irom
the the street many and many a poor girl
who was drifting down the black tide of hopeless misery, homeless and friendless; but who dropped her brazen shheld of imperson in all the world really cared for her. She described how once she per-
suaded a girl of seventeen to turn her
of work done amongst the children and
the Hebrews. the Hebrews. One speakier declared that
the foreign ohildren, who are about us in such numbers, have been repressed, and
learn with marvellous quickness learn with marvellous quickness.
Baid that and soon as emigrant children learned the soon as emigrant children learned the
language and could read a 11 tlle, they
would learn as med would learn as much in a week as our
own children in a month. own children in a month. He em-
phasized the truth that it is the "perenal element that counts, that work


Entreaty.
back on the life she was leading, and the ers must make friends with the children older girls, he companions, said: "Yes, if they want to help them. He said that
go with the lady, better get go with the lady, better get out of this he would not exchange one volunteer
while you can.", She turned to them, worker' who really loved children for a and said: "WWon't you come to ? ". but worker who really loved children for a
aunded paid workers who were only try-
they answered: "T We can't, we're too far they answered: "We can't, we're too far ing to build up some institution-though
gone." She declared that terribly sad paid work has a peculiar value of its answer had haunted her ever since. Then pawn, being generally more systematic and form and told woman mounted the plat- reliable. He said he had been teaching a culties which must be mastered in caring S. S. class of wild boys-Italians, Jews, for the "girl of the street," after she all to the story of the life of Christ. He
has entered the Home has entered the Home opened so gladly was often 1nclined to call in a police-
for her. Who can wonder if girls who man, they were so unruly. But at the have never been trained or taught, never end of three months, he reviewed the
known any home but a miserable tene- course and was amazed to find that ment, crowded with noisy children and hands went up and fingers were snapped


The Meadow Lark.
> hrunken parents, proves wild and way-
ward. Who can wonder if these girls,
wather.d from the lowest gather.d from the lowest surroundings,
sometimes quarrel among themselves or sometimes quarrel among themselves or
rebel against the needful discipline of
their new home. altered easily, and it is often a slow and beauty of holiness. wif such souls in the
Other men and women spohe earerly Uther men and women spohe eagerly
at,out the special rescue mission work in
> all over the room, and all the boys
wanted to answer at the whole story, though how they ha
learned it was. learned it was a mystery to the teacher
He said the children crowded int He said the children crowded into S . S .
no matter what the weather was like. If a room and teachers could be provided, you only had to walk round the
block and invite the children, and the wock and invite the children, and they
ago that if in. I I have found out ago that if you want children for classes,
all that is necessary is to all that is necessary is to invite classes,
-keeping them, though,
them anything really useiul, is by means so easy.
Then a Christian Jew made a very eerneest appeal on bewhis of his own
people, which was especilly people, which was especially intaresting
to me, as nearly all the children in neighborhood are Jews. He said that we ought to pay our debts, and that we had not been paying our debt to th
Jews as we should. "Where did you get your liberty, your good laws and other things of which you are proud?" he de manded. "Did you get it from Rome Persia, Babylon or from Greace? ing up a Bible, "We love this Bible, and where did we get it? Eviry bit from the Hebrew race." He said it was not
surprising if the Jew is hardi to convert. after 1900 years of persecution-persecu tion by Christians. After seeing what treatment he has received from Chris for suspecting any show of kindines. H said that though the Jew is a money retter, yet underneath, in soul, the thim hess. (I can bear witness and kin riendiness is met more than halt way in visiting amongst them.) Thes Ohris tian Jew is preaching every night to
crowds of his. countrymen, and ha crowted a Gospel settlement and has
startdren . This children. This has only been going .on or three months, and the success of it had a long talk with two of the workers hey say that the children love to ain ymns, bus never say the Name o to it. Sometimes the parents ther them from attending the sowing and ant them to be taught Christianity Bu it is possible to inspire them with Chris prinoiplas and ideals, even if they They pealy accept christ a Anoth a good and great Teacher. lether speaker said that if anyone hac a leaning towards infidelity, the best cure or it would be to engage every night fo
month in rescue work and he was not far wrong. No one can sob the terrible results of sin without seeling also the need of a Saviour. In every case
it is the personal touch that heals-the touch of our Divine Brother. Moralit is powerless to drag people out of theil
old selves, but God in Men and old selves, but God in Man can still day, as none know better than fescue workers. He could not win men without coming to live among men, and
neither can we.
Rescue work means hand-to-hand work; we can't fight with cannon that shoot ton miles, the weapon we are commanded to use is the sword of the use of a sword the Word of God, and We must all give and take from each other as we move on our way; but lat us see to it that we give something valugood qualities, not their evil, in return.

But as we meet and touch each day The many travellers on our wa, A glorious, helpful ministry The contact of the soil and seed; Each giving to the other's needAnd blessing each as well as blest."

The Meadow Lark (Sturnella Magna-Blackbind family) meadows begins to grow rapidly into the lows of rich green, you may hear the plaintive silvery call of the meadow lark 'Spring everywhere over the verdant fields. year!", an eminent bird-writer asserts Chat he says, but you must put your
own interp etation on the tender own interp etation on the tender, half-
mournful little strain. song carries well, one would imagine that it must belong to a small bird, but this slightly larger than the robin, in fact very gay fellow be is, when he has donned his summer dress, not at all the pensive him from his piping. one would picture his body is brown. mingled with reart of is strenk and black. The top of his head ream-colored stripe that black, with a on the he that which one sometimester on the heads of young chickens.


## JULY 12, 1906

About the House.
Wanda Stirs Up Another En thusiastic Correspondent.

 fuinishing of each room should be chos
to carry out the greenish color schem to carry out the greenish color schem
and should be suitable for the purpos
for which the room is to be used. Fo for which the room is to be used. F
instance, the hall might be papered wit a two-toned yellow paper, and hav
carpet or rug of mixed coloring, sarpet or oren, yellow ond terra-cota pr
dominating. The fan- and side-ligh dominating. The fan- and side-ligh
may be curtained
with yellow may Le curtained with yellow sil
gathered at the top and bottom, and furniture should consist of hat rack, um brella stand, hall table, and one or two
plain hall chars, matching the wood of pain hall chairs, matching the wood o
the hat rack and table. Unless the hal is unusually large, this will be all the furnishing necessary. The living-roon
(which has taken the place of the old (which has taken the place of the old-
time " "parlor"), opening off the hall, may have soft, sagening off the har the pre
vailing color. If this room is to prent tain many pictures, an ingrain
tidge paper will
 he paper may be a patterned one co lowng principally green and some yel
lowh will bring it into harmol with the hall. A large rug, with gree
as the prevailing tone, may be used fo as the prevailing tone, may be used for
the center of the floor, with smaller rugs
where necect the where necessary, in mixed colors, and the
curihions, table cover, etc., may be of culihions, table cover, etc., may be of
shades of green, yellow and terra-cotta. shades of green, yellow and terra-cotta
The curtains may be of soft cream-
colored scrim colored scrim. The dining-room may
have Pompeoian red, or terra-cotta, as
the tasis of its color-scheme, with the the tasis of its color-scheme, with the
furniture, if possible, of dark wood, and
the chairs the chairs leather-covered. I know one
dining-room which has meen decorated in dining-room which has been decorated in
Crown Derby colors, and the effect is both unique and very handsome. Here,
too, the curtains may be soft, cream. colored scrim, with, perhaps, dark crim colorert scrim, with, perhaps, dark crim
som or terra-cot ta ones of heavier ma sme or terra-cotta ones of heavier m
terial (NOT plush or chenille) as a wi ter alternative.
For the upstairs, I, perscnilly, muc prefer the white-painted woodwork, and
the different rooms may each be papered The anth a patterned paper in different colors,
with
One room may be in blue and white One room may be in blue and white,
the paper in a delft or conventional da sign, the rug a blue-and-white Japanese cotton, and the cushions of bluzand white chintz or cretonne. Another room creamy-white satin-stripe, with an all over vine; the floor covered with good
Japanese matting, with Japanese matting, with small green rugs
hy bed and dressing-table. old bedroom I know is in green and yel low. The floor has a painted border in
a clear golden yellow, with a large cen from in green and yellow. The walls
from the floor to the picturemouldin (about three feet from the ceiling), are
papered with cartridge paper in a soft grey-green, which forms a delightiful back-
ground for the numerous prints and ground for the numerous prints and
photos-mementos of foreign travel-with Which they are covered, and from the
whe and picture-moulding to the ceiling, the paper
is one with a large pattern of yellow chrysanthemums and green leaves. The curtains are short white muslin for sum-
niner, and figured chintz for winter. An other rocm may have pink as the lead
ing color, with a paper of wild-ros ing color, with a paper of wild-ros
pattern, and rugs. cushions, etc., t $t$ pattern, $\frac{\text { and red regs, cushions, etc, }}{} \begin{aligned} & \text { match. } \\ & \text { Frilled white muslin curtains, } \\ & \text { coming } \\ & \text { to the window-sill, or a few }\end{aligned}$ coming to the window-sill, or a few
inches below, are far the prettiest things inches below, are far the prettiest things
for bedrooms. They are easily done
up, and can be kept always looking
fresh and dainty with a little trouble,

## Red Rose Tea "is good tea"

Use a package and you will not be satisfied with any other tea.

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T. H. ESTABROOKS, ST. JOhN, N. B. WINNIPEC

TORONTO \& WEMMNTOM BT, E. WINE

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measurement blank measurement blanke

- FRER. You need not take
the suite unless
honesty
think It

 Ronat Custom Tilors, Torente, Ont





$\begin{aligned} & \text { How did their brother wake them } \\ & \text { with it ? .................................. }\end{aligned}$
How did they feel about it? ........Mad Made
$\begin{aligned} & \text { What will brother do if punished ?.... } \\ & \text { Balsam (bawl some }\end{aligned}$
What is brother's sport in winter ?...
When did guests go home? ...Nightshade
What did he call her when she ac-
what chimes were rung ? ..............................isy
When he went away from her what bells
What she ? id she say at parting ?
What state would you say Forget-me-not
Graham Bread-Stove Rusting Dear Dame,-1 would have written t
the Ingle Nook long ago, Eut I though
I couldn't tell the chatterers new until I saw in the June thing number M. H.'s recipe for Graham bread
so I thought I would tell We make it. Ncw, I feel sure this wi
be new to a good many of youn covered it by experimenting. At noon I scald twe cups white flour
and let stand until lukewarm. add one suraked yenst cake, then set in
warm place to riss. and a half dippers warm water, one cup and about one and a half sifters white
flour (not Manitohen) farl Grahain Alour, and to this add the
sponge. In the morning tur fuls salt, stiffen with white flour, and set
to rise. One thing to be remembered it rises much faster than the white rieadi
and will have to he "atched or else it
will sour. The one-half hour; then put in the oven sit and
hake as you would other bread. This will
make five If your stove rusts in the summer, just
lean with James dome lead and turpen-
line but Hoping these may help someone,
YOUR UNHEARD-FROAI SIS. Lenion! POULTRYMEM.
 TAMES hOULTON, GREAT mALVERN, ENGLAND 8. HOULTON, CALGARY
Canadian Representative.

An Irish drill sergeant was instructing ing movements, and found great difficulty in getting
when the command was given. times, he approached the recruit, sized mim up silently for a couple of minutes then demanded his name.

Did you ever drive a donkey, Fit "Yes, sor."
bim to "Whoa.
The sergeant turned away and immedithey had adyanced a dotion. Afte he bawled out at aren yards or so quad halt! Whoa, Fitzgerald ! ""
resh mind keeps the body fresh
a the ideas of the day. drain of

Dear Hame o' My Hert Lang syne. Dear hame o' my hert lang syne,
Whaur the lums or the muirlan' reek,
An' $^{\text {n }}$ the peesweep's cry on the win' An' the warld is faur to seek;
! the years hae been lang, an' lane Some,
That sunder'd my fate frae thine,
$t$ the 'oor is sweet when in thocht meet Dear hame o' my hert lang syne An' the lintie's sang, the glens aman ! bricht are the dreams that waukin,

## 

 It is as can exhibit at the fall fuir? for the majority of wo- With what was her dress embroidered? Moreover, the taking of intricate sketchesis to many a pipe is to many men. It exercises a
a many
soothing effect upon them; puts them into
a gentle, meditative frame of mind a gentle, meditative frame of mind, and
gradually smoothes out the wrinkled
aspect of things gone awry. Over-in-
dulgence in it, it is true, like over-indulgence in any other good thing, may
result in its becoming a harmful habit, a spectes of dissipation, something to be
fcught against, and pushed into the back-
ground. Yet an intelligent and sensible woman will not let such a halit fasten
itself upon her. She will nct hurry her-
solf to death at her housework in order
to get at jit: neither will she neplect her reading or home soclal duties for it.. But what did he smoke? ....... Indian pipe
 riend perhaps, or in the midst of a lively Name his footwear?.................ccasin. ill time is sct I sall ne'er forget
family circle when reading is out of the
 questicn, and when all the coats have Name his walking stick? ........ A corn
been patched and the stuckings darned. Now, just
fancy
chork change,
years
nothing wnll th
rod on
flufy b
tween
impossi
with
roses
carmine
carmacy
beauty
adays
strosity
If ycu
Inir y

irregular heat in cows

$\qquad$
$\qquad$ from the Pittsburg Reduction Co., Pitts-
burg, Pa. If for your own use, it would
pobably Le cheaper to buy from persons who make tags as a busit
Questions
'THE FARMER'S ADVOCATE


TCH $\underset{\text { TURASS }}{\text { GROR }}$ - MARE WITH

1. Have English twitch grass in a sum
mer fallow Have plowed the tand on
and harrowa
mer-fallow. Have plowed the land once
and harrowed it with a spring-tooth har-
row, which makes a very good job.
the Mare, four years old, has growth on
$\qquad$
$\qquad$



acid in water. Keep her as quiet as
partially-darkened stall,
impotent bull.
Three-year-old bull has been bred to
cows, and there are few, if any, of the ome fome return in 3, some in 6 suffered from indigestion last winter oould that affect his potency?
good condition. He is
W. W. W. Ans.-Males sometimes become im-
potent without apparent cause, and in
such cases practich such cases practically nothing can bo
done more than good care and cessatio of breeding for five or six months. In
some cases they regain their potency some cases they regain their potency,
and in others they do not. Their regular appearance of costrum indicates tha there was infectious abortion in the se tion, some of the cows would carry the
calves so long that the accidint would b noticed. It is not possible for me say whether or not the cows abort. by careflul observation, you can deter
mine such is the case, no doubt the bull is infected and, in all probability will in
fect all cows to whom he is bred, and it will be necessary to cease breding opera-
tions with him for five or six months tions with him for five or six months,
and in the meantime you will need to inject his sheath about every thind day
with a solution of corrosive sullimate 50 grains to a gallon of water heated to 100 degrees Far w., and whe
he is bred again, his shanath should he is bred again, his shyath should be

## INVESTIGATION

has proven that the reason the

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is sold in increasing numbers month by month is because discriminating buyer

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Its Merits.

This is the reason it has been necessary for us to increase our manufacturing facilities and double our output.

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The Sherlock-Manning Organ Co LONDON, CBNMDE


## COSSIP.

Tmportations of pure-bred sheep for
show and breeding purposes will be on
a larger scale this year than a larger scale this year than for many
years past. years past. Among Canadian breeders
known to be now in Great Britain, or
represented, in search of sheep following : J. Lloyd-Jones, Burford ; J.
G. Hanmer, Brant G. Hanmer, Brantiord; Hon. John Dry-
den, Brooklin; Robert Miller, Stout all of whom are importing Sheopshires. Telfer Bros., Paris - Southdowns and Hampshires. Henry Arkell, Arkell; J. H.
Jull, Mt. Vernon, and J. W. Lee Simcoe-Oxfords. J. C. Ross, JarvisCotswolds and Hampshires.

A successful doddie sale A remarkable success was the auctio
sale, on June 20th, of 35 head of Are
deen deen-Angus cattle, from the herd of average price realized for the whole the average price realized for the whole offer-
ing being $\$ 346$. The top. price, $\$ 2,425$.
was paid by Wurzbacher was paid by Wurzbacher \& Merritt for the
yearling bull, Lord Ellemere yearling bull, Lord Ellemere, by Heather
Lad of Emerson 2nd. TThe two-year-old
heifer, Fileen Lass, by the same sire heifer, Fileen Lass, by the same sire, sold
for $\$ 1,500$, the highest price for $a$ fe male, to M. H. Holbrook, of Iowa. F
others brought $\$ 400$ to $\$ 525$ each.

A GREAT SALE OF HOLSTEINS The breeders' consignment sale of Hol-
stein cattle, at Syracuse, N. Y., on June
7 th and event. Seven breeders contributed cattle from their herds of high-class character.
The highest price The highest price of the sale, $\$ 2,600$, was
realized for Mr. H. A. Moyer's six-yearold cow, Aaggia Tebee De Der's sol, whix-year-
had just completed an A. R. O. test of 26.06
was sired. butter in seven days.
by
Ph was sired by Paul Beets De Kol, and
purchased by Woodcrest Farm. $\$ 1,100$
was the was the second highest price, for Tackje
1 st (imp.), eight years old. Vernon De Kol, two years old, sold for
$\$ 1,000$. One hundred mals, many of them young calves, wer
sold to 65 , sold to 65 buyers for $\$ 38,8955$.
daughters of the bull, Paul Beel
Kol five Kol, five to nine years old, sold for De average of $\$ 766.66$ each. He is the sire
of 59 A. R. O. daughters, 13 of whom have records of daughters, 13 of whom
ter in seven 20 pounds of butter in seven days, and he has the largest
number of A. R. O. daughters at AN fexample of business generThe handsome tomers was illustrated of this spring by $\mathrm{Mr}_{r}$
H. W. Trumas branch of Trumans' Pioneer Sturd Farm,
of Bushnell, IIl. A year ago lust sold to a number of farmers last fall he
situting the St . ney Horse Co., of Arva, Ont., two stal
lions, a Shire and a Hackney. face of sharp local competition a fai season was experienced with these horses,
but this spring the Shire, Eckreto Dandy, had his jaw broken by a kick,
being, as it was then the being, as it was then thought, put out, out
of business for the summer. Seeing their oredicament, Mr. Truman omered their
orivilege of going to the Bushnell privilege of going to the Bushnell Farm
and picking a horse to use for the sum-
mer without any charge, except freight and insurance. The offer was accepted ciation, and Mr. H. Farncomb, represent-
ing the local company, visited Bushnell ing the local company, visited Bushnell
and selected from a stud of 57 Shires 3 Pert herons and 20 Hackneys, the splen-
did Shire stallion, Stuntney Brassey sired by Juvenal, and bred by the noted
breeder, Cole Ambrose, of Stuntney breeder. Cole Ambrose, of Stuntney Hall,
Ely, Eng. He is a taking horse, a massive dark brown, weighs mearly 200
pounds over the ton, at everyone in the neightorbhood. The com-
pany are elated, for they are pany are elated, for they are having even
a better season than they would have
had with theor had with their own horse, although we
are told that are told that some patrons prefer to
breed to the latter, being so well 4treed to the latter, being so well
pleased with the stock of his get that is plemsed with the stock of his get that is
coming this summer. He is now in
service service again. It is the intention to ex-
hibit Stuntney Brassey this fill, though he will not be in the bloom that he
would have been in would have been in had he been kept in
his own stable. Mr Faincomb reports
being used whit being used white from first to last. Such
acts. while they popularize a sialling company, prove a boon to customers
who can ill-aford a ooss, and the. firm which deals in such open-handed fashion

Montreal Markets.

## too dear for the From pagh market, and the

Golden Winnipeg despatch states that Shorthorn haifer and female champion of the breed at the Royal Show, at Derby, has been purchased by Sir Wm. Van
Horn, for his farm at Selkirk, Manitoba.


$$
\begin{aligned}
& \text { Acting for the Hon. John Dryden, } \\
& \text { Brooklin, Ont., late Minister of Agricul- } \\
& \text { ture for Ontario. }
\end{aligned}
$$



$\qquad$

$$
\begin{aligned}
& \text { Brooklin, Ont., late Minister of Agricul- } \\
& \text { ture for Ontario, Messrs. Alfred Mansell } \\
& \text { \& Co, live-stock exporters, Shrewshury }
\end{aligned}
$$

$$
\begin{aligned}
& \& \text { Co... live-stock Messors. Alfred Mansell } \\
& \text { have recently desparched fromewsbury, } \\
& \text { has Glasgow, }
\end{aligned}
$$ness, demand having fallen off to a lo

ehb; purchases mude at $\$ 17$ per ton
Shorts

$$
\begin{aligned}
& \text { have recently despatched from Glasgow, } \\
& \text { per s. s. Athenia, of the Donaldson Line, } \\
& \text { 18 high-class Shronshiwn }
\end{aligned}
$$to $\$ 21$ per ton, bagged.

Grain-Oats about the only grain mo
ing now; $42 \not 2 \mathrm{cc}$ to to 433 c c. Wheat nomina
at aloout 89 c . for No. 1 northern, Man

$$
\begin{aligned}
& \text { Mr. T. A. Buttar, Mr. J. E. Farmer, } \\
& \text { and Mr. C. Blatherwick, sired by such } \\
& \text { well-known ramather }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and Mr. C. Blatherwick, sired by such } \\
& \text { well-known rams as Head Piece (14.61), } \\
& \text { Corston Standard (11719). }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Corston Standard (11719), Corston Re } \\
& \text { nown 1177), Ruttar Jet }(10654) \text {, Rose } \\
& \text { fown }
\end{aligned}
$$




$$
\begin{aligned}
& \text { (11953), Dunsmore Gay Lord (117arch } \\
& \text { Fiscal Policy (11760), Heam House Star } \\
& \text { (12168), and Shrawardine Rose (11966). }
\end{aligned}
$$





 Fog bite-

 and



Gow mom foid ond dim: humam
 $\mathrm{S}^{\text {Prean }}$ SMM Co. inatan lute

 , The fant ito

$\frac{1}{2}$

The Automobile Forever

## Why He Hurried <br> Why He Horred.



 Greerinundared acres. Well wated house and bars.
Attrill, Goderich, Ont.

$\qquad$
$\qquad$
Buffalo.
Huct
y.sily
$\qquad$
$\qquad$

treatalevt for theks andphies.
, in whe
TRADE NOTE
$\qquad$
$\qquad$ of candling, however, with lighter supply
and demand for storage, keeps prices up No. 2 eggs not wanted and slow at 13 c
Select candled sell readily at 19c.
Potato ss, demanarket for bran

$$
\begin{aligned}
& \text { ford Dreamer (9419), Oxo (11804), Mars } \\
& (11154) \text {, Walnut (11207, Ashy Monare } \\
& \text { (11953), Dunsmore Gay }
\end{aligned}
$$


$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ less than a year ago. Exporters still tal
confidently conidently of lower prices, but as the
have been doing this all season, and the
market has refused to market has refused to oblige them, their
predictions have lost weimht Eredictions have lost weight.
Eggs-Dealers claim to be purchasing a
15c. country points. 15c., country points, and selling at 16 c .
16 tc . Hot weather is having its effect o quality of the stock, and aiso turning consumers away towards fruit. The cost
of candling, however, with lighter suppl

$$
\begin{aligned}
& \text { al auction price realized at the annu- } \\
& \begin{array}{l}
\text { al auction sales of imported Jersey } \\
\text { cattle, by T. S. Cooper, of Pennsylvania }
\end{array} \\
& \begin{array}{l}
\text { on May 30th, in the last seven years } \\
\text { was } \$ 418 \text {, the highest }
\end{array} \\
& \begin{array}{l}
\text { was } \$ 413 \text {, the highest average yeaving } \\
\text { been reached in 1905, when the figures } \\
\text { were seat }
\end{array} \\
& \begin{array}{l}
\text { ween reached in 1905, when the figures } \\
\text { were } \$ 821, \text { the bull, Eminent 2nd, selling } \\
\text { for }
\end{array} \\
& \text { for } 810,000 \text {, and the cow, Reminder's } \\
& \begin{array}{l}
\text { Duchess, for } \$ 2,525 \text {. The highent price } \\
\text { for a cow in the } 1906 \text { sale was } \$ 2 \text {, } 500
\end{array}
\end{aligned}
$$

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| Piles Make Life Wretched |  |  |  |
|  |  |  |  |
|  |  |  | Bit of my teet you overatatin |
|  |  |  |  |
|  |  |  |  |
| Ointmen |  |  |  |
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|  |  |  | The |
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|  |  | was, in comparison, like sitting downto rest.Idella's disposition and willingnessto work were inherited from her |  |
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|  | Stay |  |  |
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|  | $\begin{aligned} & \text { on } \\ & \text { No } \end{aligned}$ |  |  |
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|  | don't you and Edwin |  |  |
|  |  |  | and mashed his father-in-law's flabby angers within it. He growled that he was plased |
|  |  |  |  |
|  |  | delved from morning till night to kefp things going. Mrs. Sparrow read the long letter through, stopping occasionally to |  |
|  |  | through, stopping occasionally to comment. "Jest listen to this," she cried, exultingly. "I guess my comin' |  |
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 mill JOHN DRYDEN \& SON, Brooklin, Ont
and began to make improvements. The children all went to school regu-
larly, the eldest included lar ing, the eldest included. On Tues-
day Mr. Burke began his labors at
the new hotel the new hotel, leaving early in the morning, and returning at six o'clock.
In a forthight Idella announced that
her mother was to go out washing her mother was to go out washing
no more. She might "take in "the laundry work if she wished, but then
it would be done at home, and she,
herself could help herself, could help.
protested, but ldella protested, but ldella calmly went
ahead, saw all the regular custom-
ars ers and arranged with them. In a
month Betsy actually realized that
she had tine she had time, daylight time, to
"set in the rockin'chair," and do
the mending. Idella cooked, and the mending. Idella cooked, and described Anfirondack sanatoriums scrubbed, and dressed the children.
She and her husland paid board, so
there was more money on hand than
ever beiore. It was wonderful, but At first the invalid viewed all these
changes with suspicion, Lut when he
found that the food was wetter, that found that the food was better, that
he wasn't asked to do anything, and
that, more inmportant than all, his
ailments were apreciated stood, he became reconciled, and told
his wife that he could pass off in
peace now, because he knew and the children would be provided
for. But one evening, early in Novell-
ber, his dreams were shattered. They
were seated in the kithen Mrs. Sparrow, Bhill and Idella. Lyy-
curgus and Editha were doing sums
in the front room. The rest in the front room. The rest of the
chlldren were in bed.
" H'a," said Idella, suddenly, ". I
don't suppose you feel well enough
to go to work y., to go to work you feel well enough
Her father, seated with his feet on
the hearth of the cook the hearth of the cook stove, took
his pipe from his mouth, and turned
an agitated face towards his daugh-
ter. He started to speak, and then ter. He started to speak, and then,
recollecting, coughed long, and with
dreaful hollowness.
a' I asked,", continued Idella,
acause Bill ". 'cause Bill says they need more
hands to cut dow trees and lug
lumber over to the hotel, and he
luould git a job for you any timu
$\qquad$
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$\qquad$
$\qquad$ that magazine ?
Her husband produced a dog's-eare
copy of a periodical ed its of a periodical, and "Idella turn
"Here," she Here's a piece about curin' White Plague; that means consump Mr. Sparrow declared that not want to hear no such foolish ness, but his daughter laboriously which specified the dangers of darh and open-air slecping-rooms.


The Big Clydespale shipment. sailed a week aco Liner. Lakonia, which Canadian marke:. Mr. W. J. McCallum, A. \& W. Mont Jomer. Picken; Messrs. Mr. J. L. Clark, Norval, Ont., in the re
piinn, had also two the sale of which Mr. Picken, Torrs, had
 A. Arodie, Stountille, Ontas made by Mr, who hall
37 hiead, purchased from Mr. Willian
or, Park Mains, Rent hy him in kintyre, Renfrewshire purchased artunshire and Lanarkshire. Of the 37 ,
one was a choicely b-bred two-year-old coll M13end, and, like him, pretty horse, Royal a good breeding horse. Of the three (10527), the sire of the H. H. and A. S. S
champion horse of celehrated horse himself. Theing by
were got by the West Lothian Cessful sire Rqual related
leading
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ron's Pride
our time.


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