## PAGES

MISSING

# Che <br> Persevere and <br> \section*{Farmer's Jold} 

 Succeed.LONDON, ONTARIO, JULY 18, 1907

Vol. XLII

## EDITORIAL

HOW THE LABORER'S POSITION COMPARES stated that church, school, platis problem, we had tended, by broadening the individual citizen's outlook and stirring humanitarian impulses, to position, while hand in hand with these agencies had gone invention, which intellectualized labo and stimulated it to organize and obtain increas ing remuneration for its toil. Well that such
influences have been at work, for, on the other influences have been at work, for, on the other
hand, modern Industry and Finance, by centralizhand, modern Industry and Finance, by centraliz-
ing and monopolizing manufacture, and fleecing the ing and monopolizing matlible public by floating watered stock and by various other forms of organized extortion, aided questionably brought about the concentration o questionably brought about the concentration of American continent. It is these few and the middle classes who set our standards of living dictate the expensiveness of our fashion, and are responsible for the heavy economic loss which results from the frequent changing everything, from boots to millinery.
he standard admitted that, a large extent, the standard of living varies with the age and the neighborhood in which one lives. The father
who resists his son's appeal for 30 cents to join a baseball team, by telling him hów little money he had to spend when a boy, is using an unfair argument. never has had, forrat to wear them, either. It was no embarrassment church when all the other boys were doing the same, but it would sting the spirit of the least sensitive lad to be the only one wearing such footgear in public. The young couple who went West to rough it on a homestead, think lightly of the deprivations, because their neighbors are in much the same straits. Had they remained in the East, they would have found it necessary to hot do to compare the workingman's wages today with those he received ten or twenty years ago, and jump to the conclusion that he can have no possible cause for complaint. Rents have increased at a feverish rate, the cost ol most staple lines of goods has risen considerably demands upon
besides which there are many new demer his purse. The workingman of to-day aspiresand quite properly and worthily aspires-above the position of a mere clodhopper. His own self-respect and the interests of his famiry dow, to the usages and amenities of civilization. The city laborer has his water rates to pay, his rent or taxes and interest, his electric-light or gas bill, his street-car fare, and an occasional railroad trip, to say nothing of the hundreds of other items that bulk so large in the course of a year. He
probably feels, also, that his home is incomplete probably feels, also, that his home is kind. And why shouldn't he be entitled to these things, when his employer is riding around in a five-thousand trip to Furope? Fashion dictates the luxuries of the rich, and no one raises a hand of protest, no matter how dishonorably the money that buys the luxuries has been obtained. Yet there are plenty of people who dwell with horror on the they find a extravagance is profligate or drunk how ready they are to point their cut-and-dried conclusion that prosperity, beyond a frugal living,
is no benefit to the workingman. By these same
critics, the indulgences and misdeeds of the well-to-do are tolerantly condoned, especially if they
happen to be liberal supporters of public benefactions. We talk considerably about equality and democratic privileges, but a great many of us who act accordingly when it comes right down the the point in the form of a concrete instance. roregoing paragraphs is that, while the unmistakable tendency of modern times, especially in the
New World, has been towards an improvement of New World, has been towards an improvement of
the laborer's position, still the real betterment to date is not so great as commonly supposed, for, While the average of intelligence, comfort and culfre in the laborer's family is undoubtedly adancing, the retative positions of the average are about as far apart as ever they were and the are about as far apart as ever they were, and the
laborer who seeks to conform reasonably well to the demands of the present-day civilization must. needs calculate about as closely as did his prototype of earlier times. Meanwhile, we leave our readers to ponder the statement of a prominent publisher, who declared to us recently that he could get scores of editors, but had advertised for printers in vain. Why is it so ?

AGRICULTURE AND EDUCATION
population", said A be greater than its rural Minister of Education for the Province of Ontario, in a recent speech. A similar thought had veen expressed a month before by President Roose velt at Lansing, in the words, " No growth
cities, no growth of wealth, can make up for cities, no growth of wealth, can make up for
loss in either the number or character of th farming population." How can this standard maintained and raised? When all other agencies have done their part, a tremendous responsibility rests upon the rural public and high schools. The latest tangible evidence that this fact adequately realized by those who shape our educational systems, is the introduction of agricultural classes into six Ontario High Schools. For this reason, a very special interest and importance attaches to the new movement, and amply rants the prominence which it is being given in these columns. The nature and objects of the new work were explained inct 27 th by C. C. James, Deputy Minister of Agri-
culture for the Province, and elsewhere in this culture for the issue we present halif-tone portraits, with bio-
graphical notes, about the young men who have been selected for the important positions as or ganizers and teachers of the classes of agriculture in the six Agricultural High Schools. All are good sensible farm boys, graduated from the Ontario Agricultural College; five are natives of Ontario, and one of Nova Scotia. Some of them have had pedagogic experience, and, from the way
they have gone about the organization of their classes, and the favor met from the municipal councils which they have approached, the prospects for the success of these schools appear to be bright. Much, however, will depend upon the local support received from farmers and their sons. At first the classes may not be large, but
they will increase according as the value of the Agricultural High School becomes demonstrated. The importance of the new movement is great It marks, let us hope, the inauguration of a new era in education, an era under which the aim will be to make the Public and High School courses as ing framed as part of an educational ladder, the prime purpose of which has been to lead to the university. In order to raise the standard of the
been done to intellectualize the occupation of agriculture, to instil into the schools a pride and enthusiasm therefor, and impart a degree of inthose who dentally the new course will prove a more inciportant means of culture than the a more imdemands the remodelling of our whole school system. The new movement is a milestone which marks the turning of the way.

## DOMINION DAY IN QUEBEC

## We have just passed another milestone in the

 Forty of progress of our great commonwealth. peering into the future, saw the possibing men, Canada becoming a great nation. They saw the disabilities of the scattered and disintegrated Provinces in Eastern Canada, and in these they saw only one hope for a grand future for our Canadian land, which hope was realized in the federating of the various Provinces along the Atlantic seaboard with the inland Province of Ontario. This, coupled with a faint hope that the and mount of country, made up of lake, prairie and mountain, lakes and the Pache Ocean, which seemed a land fit only o wander, and the miner to roam, for the bumalo wealth, mioht possibly be of selve hidden wealth, might possibly be of some value to the most sanguine have been more than realized While advancement has been made in the Fast yet a more marked progress has been in the West. Here we have seen the old-time methods supplanted by those of modern days. New systems of agriculture have taken the place of the old. We see the evidences of industry, thrift ąnd prosperity on very hand. We see our farmers enjoying the ruits of their labors in more comfortable homes, was made correspondingly that are models of their kind other things; stables fully and expensively thau-were the farm forty years ago. Modern farm implements lighten the toil and enable the farmer to accomplish more work at less expense, thereby cheapening the cost of production. All this spells PROGRESS.While we dilate on the progress and success we have achieved as a young and growing nation, let us not forget at this time that there is something than sim our young Canadians to think about Is our country material progress of our country. progress in the front her as she continues to grow ? late and fuse into one nationality those assimiblood, ideas and religions, into a people having common sympathies and aims, full of integrity and at heart a noble purpose, to my mind, is the greatest problem our country has to face. And dians here is a grand work awaiting young Canacountry ond ioster a deeper spirit of loyalty to our nto the hearts of those who may come to and shores from other lands the same kindred spirit. To foster just such a spirit, the farmers of the djoining county, Chateauguay, cominenced twenty holding a " fo celebrate our national holiday by outing has been held continuously Howick. This mencement, which speaks well for the comwomen of that section in perpetuating men and tion of its kind, not only making it a holiday and day of enjoyment, but a day of profit as well pared for the occasion, to have a social chat with but also to tisten the the in the games and races,
the Farmer's Advocate

## and Home Magazine.

dicultural journal in the
dominion. DOMINION.
the william Weld company (Limited john weld, manager.
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topics of the day '(except political questions
The gathering on Iominion lay was a large and threatening in the although somewhat heat joyed by old and young. We were specially ored this year by having the Provincial Ministe the address of the day, and referred us, who gave the address of the day, and referred to the pos when the increased subsidy was received. As
was his first visit to this section of the province. he spoke in glowing terms of the appearance o
industry, thrift and intelligence of our farmers. - It was hoped the gold medal, won by our young stockman, R, R Vess, of Howick, and the in the "Reward of Merit "Mming to this section
petition. would hancial-farms com-
 hand in time. Which was a disapmontment. Thi
picnic was held in the beamionl maphe growe of
Wm. Greig. Cainnsid. Wm. Greig. ('airnsidy we have had copions shour ers, refreshing all verdure womberfully and all
vegetation has made markect progress. Hay will
be a light be a light crop, but the quality will he way will quickly after the rain ceased. The first drag was cutting, which usually commences atout July 1 st , stuff. The second season he made a drag out of
will be ten or twelve dats later. (irain is color, but at
exceedingly dr
number of miss
start, they have
felds of corn are
hey are the
have come on well.
sually is at this


THE INVENTOR OF THE SPLIT. LOG DRAG. Missouri is the slate whose natives are sup-
posed, as the slang phrase goes, " to require to be shown," but in D. Ward King, of Holt Co., me inventor of the split-log drag, she produced a ing the rest of America the compliment, by showing the rest of America how to make good earth
roads without money, or, if the volunteer be counted, as it should be, at a cost of labor six dollars per mile per year. Mr. King is a farmer, and has lived on one farm, he says, is a twenty-five years. At least, he was living on it till the work of the split-log drag made him famous and created a demand ior his services on the lecture platforms. When he went to Holt County, the roads were simply trails over the country. Later they were fenced in and made into highways. This was the starting of bad roads. Rain and travel made them bad. They soon became lower than the adjoining land, and
served as ditches served as ditches. Our friend studied the road He heard of a road machine in a " moad crank.' He heard of a road machine in the East- a re
versible grader. He procured not answer the purpose. One spring day in did he hitched to a cheap contrivance day in 1896 thing like a three-rung ladder, and, stepping onto it, drove down the roarl toward his neighbor's
front gate and back. one horse of the team each side of the right-hand rut, the drag follow-

had been badly cut ul by trach during a spall of wet weather, and was just delying. The drag the edges of the rut and deposited the loosic down in the ruts and other low places, leaving it smooth. The largest clods were moved to the
center. The road wase center. The road was better at conce After done so. or had his hired man do so, with has hor roads, after every rain. to the present time $y$ famous becaused to improve, and became localause it driod and hecame in fine condition so stuff. The second season he made a drag out of
the trunk of an old hox-clder tree crooked. Wut he split it, and made a dairly good
drage He used this for fitc wears and madre hie
 hard, but it became graded so high that the
$\qquad$
$\qquad$
$\qquad$
ment. Since then he has been more and more occupied in explaining and demonstrating this simple method of roadmaking.
Notwithstanding his self-styled characterization, the inventor of the drag is nut a crank. He does not claim that no means of road improvethe contrary be used except the split-log drag. On ing of a small percentage of the leagh macadamizand argues that " no come of the leading highways, without stone on its main thity can afford to do land is worth thirty dollars per thoughfares when an be had within three miles." But and rock amize the whole or even the greater to macadroad mileage under these conditions is not of the able. On the less-travelled roads, leave the earth times a year. $\underset{\text { Mr. King }}{\text { My }}$
physique, as well as mentality, and of splendid make a most favorable impression wherever to delivers an address. He is the stamp of citizen
of whom we never have enough. A loss prising man would have enough. A less enter rom year to year without cudgelling his the mire to find a remedy, and finally have sunk into a
seven-by-six-foot grave, leaving hing seven-by-six-foot grave, leaving his children and
neighbors to do the same. A less thorough man would have been content with improughging the roadd a little, and letting it go at that Nothe with Mr. King. He knew he had hit upon a good such striking improvement as it. The result was tention of the State officiais, and since the atthe whole continent. There is a lesson in this

A CALL TO StEADY OUR PACE an unmistakable stringency fins have experienced n unmistakable stringency in the money market Avallable capital has been scarce, and rates of one's attention is called about for an explanation, imports have greatly exceeded fact that Canada's difference being made up in cash or exports, the ahroad. In so far as the deficience of borrowing been due to delay in moving the wheat crop and other produce to th. seaboard. whic crop and may hold good, and the conditions will le to that extent relieved when the delayed crop is finally favorable balance of trade is the continued influx of immigrants, most of whom are consumers beiore they produce much for export. This factor,
however, while it partially account. of imports over exports, does not expr an excess qual extent the financial stringency, for to an the immigrants loring with them a certain amount of money to pay for their living, and this, so
long as it lasts, constitutes an increase in the The main cause of the close mones tharket in wace, not only in living higher than we used to do, but in undertaking hew enterprises on a and manufacturing estallishments, faster than cities means warrant. More settlers, more railroads; other forms of more settlers, has been the cry, and have likewise proceeded apace. This hopment work rast that much of the laloor and material gone on so full imported, and we have not heon have inad count. Of of the expenditure on beevelopment the gin to produce, we, when all these enterprises thethere is no doubt that the expect casier times, but mally fast, and therein lies the has heen zhnoraiter month since the new year opened the normal increase in bank deposits has fallen short of thal money and credit. demands on the batks for prises, hot to
so it has homplete those already undertamer here, again, the tremendous econow atbroad; liut a talled hy the Boor and Russo..Jomomic waste en able to borrow as readily hence we have leen un dian situation : it is molly alarming in the Cana ing. Th. Fominion is still onosome than alarmfinancial basis, but the call on a perfectly sound vace- to strany the call is chear to slacken our

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## HORSES

the problem of the horse industry.
SOME TRICK: OF THE BISENFSS. pointed out last week, must come by the uist of good, pure-bred sires, and then by carerully cull-
ing out the poor fillies and keening ones to breed from, and hy each man sticking to one breed. Where this has been donc for a dozen
or firteen years, the improvement has been loyond the hopes of the breeders thenselves, (ntior-
tunately, few kept on using pure-lred sires. Many started well, but after two or three strains of pure blood had teec intused into their stock, they
kept one of the colts for an stallion because he he looked so much like a pure-bred. IN to this
time the process of grading up had teen going on: now retrogression invariably set in. The grade, having but a short line of breeding, and not par-
ticularly strong blood lines, failed to get animals as good as himself. Not only was the owners
stock deteriorated, but many neighbors, bectuse of the low service foe and good appearance of the
animal, went by good pure-breds and bred to him Thus, many horsemen were forced to buy, cheap. the grade. In some sections the word "young ", or ". second " is prefixed or affixed to the sire's
name. At the same time, the sire's cut is orter used on the route bills, and his pedigree given.
The average man, knowing but little of pedigrees. bred, or just as good. Few stalioners furnish of good, pure-bred horses. The majority ask the printer to use the hest cut he has of a certain
breed and color, with certain markings, or near to these markings. On the road, more than one glib-tongued groom has satisfactorily accounted
for the better appearance of the cut than of the that the animal looked thus when properly fitted Some horses are passed as pure-treds, the certifi-
cates being kept at home ior safety. (other cosses are known where a cope of a certificate was car-
ried, but it did not belong to that horse, but passed muster as all right, Because notoory who
knew tonthered to examine it. Trasters have
heen shown leen shown as certificates, and passed of as such
Ior years while certificites signed by Dodd or
Thomucon wouk

 trick was rasising the age e another was adding
to the daseription to make the certificate suit
another horse

 Anot her practice which works incalculable ev
to the industry is the systom of sudita usually carried on. First get lots or corn into Eive hime his price to help you, then you can
syndicato any horse This is one horseman's
 value, it is quite correct. Horses that hax
cmail. mismated feet. upon which they did not

 utteristics go with upright shoulders, and quite
often long lacks. poorly-muscled loins and short le. told prompty that these are first-class hourses-
must to. herausio thay cost anywhere from $\$ 2.500$ tw $81,(001)$. Judging from what breeders do-not
what they say, for most men want to be thought
 Wher trick practiced dy some dealers is to have a
horse or two for s.sndicating durposes-good horses Thest horses are s.s.ticated over and over again map. inferior horse being given in exchange. ac
$\qquad$
$\qquad$
$\qquad$ Th horse did not prove up to the standard, to


 Tersely, the situation
phrases: Poor ioundation

RECORDS OF GRADED STOCK
management. too many grade antl scrub sire and proper protection for the breedcrer the stallioner
with a good horse, or the honest dicaler; a general lack of interest, and a great lack of true horre
lore through many sections oi the country, which toceunts or many octions of the country, which
ace the practices, such as the syndicating of a scrub for ten times, sis value, and
then passing him as superior to good horses
lherausco take up the industry and put it on a proper hasis: late an the industry and put it on a proper hasis;
little correct thowlede of the exising conditions,
either along lines of breeding or marketing.

## COMMON SENSE VS. WHIPS

$\qquad$ house recently said of the whil, situation in in
proportion to the number of people who drive
horses, not half as many whind as there were a quarter of a century ago. Many owners of horses now never carry a whip. I have
known men who nlways have horses, and yet have never struck one of their animals, with the whin Many people hold that if a horse is properly
reared from colthood, it will never need a whip.
What nro What are termed the bad traits of a horse are usually caused hy the people who have handled
them. Some bad traits of horses are hereditary hut they can usually be traced back to bad management of ancestry. The more good sense a
driver has, the less punishment his team will driver has the less punishment his team will
need. It is all practically a matter of good


Red Sahib

## hackneys at the royal.

The Hackney classes at the Royal Show, say mens of the highest quality, ribeit we animal
the ondymin cham the Olympia champion stallion, Sir Humphrey
was not entered, which was to be reyretted (hay pionships fell to Copmanthorpe Periormer and Dis
trict Olym Maid, respectively, but in the case of the latter heroine of a fortnight ago, had to give why the the senior mare. Those who watched the meeting battless seen bet ween mares in the Hackney ring A reieree alone setled the quessuon in favor of Sistrict Maid, Who perhaps was more happy of
the heavy turt. There can be no denying the fact that sir Walter Gilley, Mr. R. P. Fivans and the Messrs. Hall just now have between them a group of animals which will for a long time maintain
the prestige of the Thritish Hackney. District Maid, shown hy Mr. Evans, is a chest
nut six-year-old daughter of Rosador, and Lively Beeswing is a chestnut two-year-old filly sired by
Royal lanegelt, aud shown by Sir Walter Gillhev Royal Danegelt, and shown by Sir Walter Gilbey
Cormanthorpe Performer, the champion stallion is a three-year-old chestnut, by Garton Duke o Connaught, shown by Messrs. Hall ; and the re Serve number, (Gartonius, a chestnut three-year-
old son of Garton Inuke of Connaught, was bred and shown by Mr. Evans. J. F. Oxhy. Wellington (\%. Ont.-We acknowl-
 glady get more sulveriluers, if possible, Wishing
ollows Ditor "' The Farmer's Advocate
Re the article, " Keep the Standard up for the desdale Registration," I have just worked out



In the above table every first ofspring is sup-
posed to be a filly foal, and mares bred when three Clydesdale Broed which is the firt mears Clydesdale Breed.-Which is the first mare colt
entitled to registration, and which is the first entitled to registration, and which is the first
stud colt entitled to registration, according to above table, corrected if need be ?
Percheron Breed.-Which is the first mare colt entitled to registration, and which is the first
stud colt entitled to registration, according to alove table, corrected f need be
I own scrub mare and grade colt A. I follow in order to have A's
ofispring
great-grand
registered ofispring registered
when they are born? Should I get a blank
or form now
(from $\begin{array}{cc}\text { or form } \\ \text { whom ? } \\ \text { now } & \text { on }\end{array} \begin{gathered}\text { (from } \\ \text { which }\end{gathered}$ whom? ), on which
A's pure -bred sire and scrub
names
nam's
would down, in order that
when A's entitled-to when $A^{\prime}$ s entitled-to
registration offspring is born, the ancestry of said offspring may be traced down to its
great-grandam ? great-grandam should he glad
of getting an answer
to above questions to above questions
through your 1'aper, $\underset{\text { as doubtless }}{\text { farmers }} \underset{\text { will }}{\text { many }} \underset{\text { read }}{ }$ same with inter.3st.
R. M. E. P.

With Clydesdales, the rules for register-
ing graded-up stock rea d: "Stallions having five top cross-
es with their dams on ecord, and mares having four top crosses in each case by a sire recorded in the Clydesdale Studbook Canada, shall be entitled to registration.'
This means that, in the case of our correspondhorse colt from D by a registered Clydesdale stal lion would be eligible
With Percherons, we have not been able to get information from all the record associations, and the fact that there are several of these associa
tions makes it rather complicated to trace the breeding of graded stock. We believe, however hat the same rule will hold as with the Clydesdales, and where the stallions used are registered
in different books, the finally produced pure-bred will be eligible in whatever studbook it is decided
In record him or her. up stock, so far there are no blanks supplied by he breed associations to parties who are en
leavoring to breed from grade stock to be regis tered. Some breeders, however, use the blank forms of application for registration of pure-breds
for this purpose, and fill them out from mer for this purpose, and fill them out from memory
or from their diaries. This is an instance where he breed societies could do considerable wheor work, and we have suggested to the Clydesdale Association that they prepare blanks and circulate rules for the convenience and guidance of farmers
who are breeding in line from pure-bred sires These blanks might contain spaces for the names of the mare, the stallion used, the owners of each, the date of birth of the progeny, and any other certificates might also be supplied whenever mare changed ownership, and shoplied whenever
result, in time, in increasing the value of high
grade mares, and in adding many new names t the list of registered stock. We believe this dorsed, and would be glad to publish expressions of opinion upon it

## AUTOMANIACS

Instant death, with a broken neck, a boy with toth legs broken and skull crushed, a horse with his legs torn off, and three injured men besidesautomobile accident, entailing the death of a friend's son, as contributed to the Horseman and Stockman by M. T. Grattan, of Minnesota. "' We condemn," he says, " the anarchist and his bomb which could do no worse, and tolerate the auto maniac. Through this toleration, over a thou and people were crushed, maimed and killed in the United States alone last year. The ratio for this year has more than doubled, and no daily that prints the news-some suppress it-fails them heartrending in their every issue, many of hem heartrending in their horrible details. This and confine them the people rise in their might " Such a menace are they to public way.

Sher a menace are they to public sarety that vital problem of self-preservation which thay th pose upon every living thing that ventures upon the highway. Not only this, but their use makes men effeminate and women neurotic. The man who is a master of a horse makes a good soldier a statesman, a great divine. Washington, Jack son, Grant, Roosevelt, were soldiers, statesmen and horsemen

John Wesley and Peter Cartwright built up a church on horseback. They had the many virtues, mankind powd men who loved God, mankind, and a horse. What will the auto do Then, one man who can ride a horse across try without fatigue and shoot straight, will be worth more than a score of automaniacs, wo humped and goggled, will be confined to the macadam where it is not torn up, and eventually have to take to their weak, unused legs acros the fields, an easy prey to mounted infantry.

When upon earth, the Herald taught kindness to children and animals. Needless pain, needless suffering, inficted upon the helpless or the weak kills every day in the law save that of self-deiense can wich no man in taking, takes that which cannot be stored, and the plea of accident is not tenable
or every man who steps into one knows what for every man who steps into one knows
they have done and what they are liable
when run upon the highway "، run upon the highway.
gents of the manufacturers lobbying against and aws, the fact remains that those who run them jeopardy, are murderers at the lives of people apologists are worse
A little extreme, perhaps, but otherwise not far

CLYDESDALE REGISTRATION

on a horse's bowels
valuable in the stabl
the clydesdale rules defended.
$\qquad$
seconder to explain certain questions asked by him, not, however, with much hope of convincing him meeting on May 23rd, as carried at Clydesdale interests of Canada.
Kindly turn up the issue of July 4th, when 1 may be allowed to say, in answer to question that it was the Canadian Clydesdale people run ning their own business to suit themselves, and if the Scottish authorities consider it advantage be numbered until she has produced female shal must remember that is their own a loal, ever lacking in "sense" it may appear to Con dians.
His second question seems to lack point rce, as anyone could readily see, if the standar was to be raised at all, there must be a date t
commence, and that was made July 1st, 1907. As he continues to write, his third questio reveals more fully his sinister motives, and in answer to it 1 quote the amendment to Rule of
Entry No. 1, as carried at the called May 23rd, 1907: "Imported Clydesdales, males and females, recorded and bearing registration numbers in the Clydesdale Studbook of Great Britain and Ireland, whose sires and dams, toand bear registration numbers in said Studbook shall be accepted for registration in the Clydesdale Studbook of Canada, and that this amendment 1907." Where does he find "will be accepted" The amended rule says "shall be accepted, surely imperative enough for anyone, and at In answering question four would ask object read carefully the amended rule, as given in full answering question three, and I am willing leave the issue with "c coumon people.
In closing. his letter, everything American appeals to his judgment in preference or anything Canadian. However, this is his busihess, not mine, and, in closing, I may further say scrutinized as possible, and am then willing the the eave the verdict upon my action in moving the amendment to the Clydesdale people of Canada, who have always honored me with a seat on the dale Association. Mr. John Bright, the seconder an take care of himself. WM. SMITH.

TROTTING-HORSE BREEDERS AND EXHIBITIONS
The Western Horseman has an article urging the American Trotting Register Association to horses at leading State fairs, and likewise calling upon breeders of trotting horses, even, if neces Sary, without special inducements, to devote more
attention to the matter of show-ring Draft and imported coach horses, it says win public favor because of their showing at the exhi
bitions. "On the other hand owing eral lack of interest in the matter by those who should be trotting-breed public-favor promoters the average show-ring trotter is a finely-drawn, day road horse, which is entered merely to 'hold of the ' Bind of Faradise , would have plumage tude of homely angles in many imported multi-high-class trotting lack of these makes many As to the desirability of this, there is no room
for question.
(ireater attention to tred horse in an improvement of the trotting fffects of the placing of such exaggerated emphasis
upon speed, and assist in the ovolution THE MOST UP - TO- DATE AND RELIABLE

## LIVE STOCK

OUR SCOTTISH LETTER.

## LINCOLNSHIRE AND THE ROYAL SHOW

 Once more I write a Scots letter in Englan Tincoln, my theme is chiefly the Royal Show country meeting of the premium the sixty-eight ciety in the Old Country Lincoln intere visited by the Royal, viz., in 1854 and it interesting to learn that the Mayor who the Royal to this "Corporation in, welcoming the and for many years has held office Toun Lincoln is a great agricultural center extensive as Yorkshire in respect of acreage, this Washty, which lies between the Humber and th and variety of its agricultural interests number whole, it may be characterized as the leading as ricultural county in England. It gives name to distinct and highly-valuable breed of sheep, the Lincolns; it claims a variety, if not a distinctbreed of cattle, the Lincoln heds; and it may left in undisputed possession of a breed of pigs the Lincoln curly-coated Large Whites-enormous brutes, which are fed to great weights, but they am told it is chiefly consumed by the farmer laborers. The head man on a farm is allowed 30 stones, or 420 pounds, per annum of this pork for
every unmarried workman on the farm whom he feeds. It is well that these your whom he presume, have lively digestive organs, or they might find themselves hard put to it in the effort o consume victual of this description. The curlythe bristles may not have a value of their hether The Lincoln sheep are favorites in the Argentine where, crossed with or on the Merino, they produce a splendid class of wool, for which there is
an increasing demand. As mutton-producers quality, they would not take a high place but account of the peculiar lustre of their wool, which does not seem possible to perpetuate successfulpresent an easy first among the ovine races al England in respect of individual values.
all the Lincoln sheep-breeders are valso breeders of
Shorthorn cattle, either of the Coates' Shorthorn cattle, either of the Coates' Herdbook ety. If anyone inquires. "What is a Lincol Red?", I would answer. "Any whole-colored re
repister registered in Coates Herdbook, if of a milking
strain, and all the reds reared in and recognized the reds reared in Lincolnshire the Society charged with the protection and pro motion of the interests of those who own these cattle. My inpression is that Lincoln Reds are
simply Shorthorns whose carly pedi
hister history were not recorded. bred true to one color
and type in the great county rive their name. 1 Briefly, it may be they dered Shorthorns may be classed as Lincoln Reds recognized as Shorthorns of orthodox not be They are very good cattle, and find keen cham pions in the brothers Chatterton, of Stenigot
Lincoln, and Mr. John Evens, Burton, Mr. Evens is one of the hest farmers in England
He has bron of has brought the Lincoln Reds to a high state June) it is announced that he has to-day (27th the £60 prize of the Royal Agricultural Societ is a magnificent triumph and Lincolnshire. This with the hearty goodwill of his many well earned heighbors. To-day, at the show-yard sale the Mr. Chatterton, was withdear-old hull owned the much larger sum, 706 ws.. was, at paid for the first-
prize two-year-old Miamond, calved on Shorthorn bull, Rosedale head, Milnthorpe Westmoreland Handley, Greenroan, which won first at the Royal Dublin Spring
Show. He is destined Girst-prize yearling. Hayle Vicerov, Argentine. The hoskens, in Cornwall, and got by the Scots Mra destination is the Argentine, also. The Lincoln Reds were selling well. but when a well-bred arents for the Argentinn apeared on the scene, the In hidding him up to phenomenal figures. Two respectively. There was a slow demand for nor stock. Thergin to think that $\frac{T}{T}$ must be getting chac for I have been at every show of the Royal
since 1479 , inclusive, with the excention of the lerhy Show of 1881 . Whis is my twenty-seventh
Roval Show Roval Show. and I do not think I ever saw
looter display of British stock. not even at the


SHEEP AND SWINE AT THE ROYAL SHOW. SHEEP.
It can be said of the Lincoln Royal that probaben never before at any previous lioyal has there no less than 23 distinct breeds finding a place in
the schedule, which commenced with the Oxford fully level and uniform entry, Messrs. by a wonderJ. Horlick, G. Adams and H. W. Stilgoe being the leading winners.
to the Shropshires made an entry creditable alike form and typical appearance, with splendid uni and character. Mr. M. Williams won in the yearling ram class with one of the finest specimens Cooper's pen of five seen for some time.
Comis age were
ly well matched. A notable stud ram, too, was
Cooper was unbeatable in the aged ram. Sir $R$. laoper was unbeatable in the classes for ram being of epecially high quality. ewes, his entries The Southdowns, sometimes
sented. The champion here most typically repre Mr. W. M. Cazalet, and that for for males went to Colman. These, together with H. M. the Kr. J. the Duke of Devonshire, and the Executors of very strong competition. were principal winners in The Hampshire Dow
breed, fully proved their right that early-maturity title. Mr. James Flower was first in each class Pearoe took premier honors. Messrs. T. Sir W. G. H. C. Stephens and the Marquis of Winchester were also prominently successful.
sented the Suffolk breed, Mr. H. W. Smith reprefirst for each class except the yearling ewes being
Mr. R. Mr. R. Barclay was the leader. These two ex-
hibitors, together with Messrs. S hibitors, together with Messrs. S. R. Sherwood and
D. A. Green, were the compent The Dorset Horn breed with
tative entry, owned by, amongst fine, represenF. A. Hambro, W. R. Flower, James Hatrill and section, the above being the chief winneature of the The Lincoln breed, with its unique
record exhibit, must be referred to in sequal and more detail, for never before has so larmewha lection of this breed been seen at any show, no
has there ever been so a has there ever been so large a number of c
petitors. The two-shear ram class had
winner Mr F winner Mr. F. Mirler's champion ram (bred it
Nocton Heath), Mr. H. Dudding takim Nocton Heath), Mr. H. Dudding taking the second
prize in the class with a very good latter exhibitor, in what a very good one. The The
the strongest class of pleased to term the strongest class of yearling rare pleased to term a day, took first with a ram seen for many
merit, Mr. Tom Caswell being of special high for pens of five yearling being second. The class
which has never was one the like of which has never been seen before in the Royal
show-yard, for there was no show-yard, for there was no less than the Royal
competing, a sight that was the most striking
feature in connection hibit, the first honors with this most unique exding, a great success, and one thoroughly well
deserved by reason of the merits of this winn deserved by reason of the merits of this winning
sheep; Mr . John Pears was second. In the ram
lambs and lambs and ewe lambs class, Mr. Dudding again
led the way with most typal. In the Dean \& Son taking second typlace. In the , Messrs yearling ewes, Mr. C. F. Howard was the winner
with a grand pen, and this exhibitor youngest breeders, had the great honor of of the owner of both first and second hize to bens in the
class for vearling ewes in full fleece, a class in
which no less that class of this unique exhititionjeted. The fina wool sheep was for the best group, Lincoln long
Dudding led the way with choice specimens of the breed Messent (i
H. Harrison and E F. Jordan were principal win
ners for yearling sheep, and the Messis. Simpison in the clas
Messrs. winners in small but good classe the pincipa
sheep, and Messrs, IR. Tavlor sheep. Never Hofore at the Roval have the Ken sented, nor has its whitits leen so googly repre
as upon the present occasion, Messrs. Bentinck owned the wimmers in the Lord Henry was stolen. There is poetry for departed bread owned the prizewinning Itevon bred. Mr. White Messrs. H. Fairweather and I Song-wooled sheep the South Devon lroed and .J. Stooke those of

## The entry in this sperton was onn wi the larg-



private burial-a tragedy in which the writer
played no part, and claimed no such distinction,
though he was one of the child
pigs had iull classification at this show. The
entry was of specially good merit-a grand one
in fact-and the champion Ward, made 52 guineas. The champion mr. J owned by Mr. H. Caudwell, and these gentlemen together with Messrs. T. Ward and H. C'audwell, A particularly good entry of Large whites (Yorkshires) faced the judges. Mr. C. Spencer won first in boars born in 1905 or $1906 \begin{gathered}\text { Spencer } \\ \text { Holth }\end{gathered}$
Hollywell Hollywell Czech 2nd. Mr. R. M. Knowles won class with Colston Lass the best animal inth, the R. Daybell was first and third for boars born in 1907, second going to R. R. Rothwell. Sir Gil-
bert Greenall was first . A. Soth bert Greenall was first and second for yearling Sunlight 12th. The Earl of Ellesmere Walton or sows of 1907 . The Earl of Ellesmere was first A very fine entry, and typical of its breed which went to Tamworths, the champion prize fo Peter C. Walker and R. F. Ibbotson were the other
eading winners A grand lot of Berkshires made up a specially A grand lot of Berkshires made up a specially
large and good entry of the breed, Mr. G. T. In-
man winning first prize in man winning first prize in the old-hoar class. (farrowed in 1905 or 1906), and taking with this aniThe Duchess of Devonshire with honors for males. 2nd, took first in aged sows, and Polegate Dorcas for females. Mr. Godfrey Chetwynd was first and second for boars and sows of 1907, and Lord Cal-
thorpe first for sows Russel Swanwick, N. Benjafield and R. W. Hudson

RECOLLECTIONS OF A SHEPHERD
Continued.)

My recollections in this chapter are of recent week's issue of ". The Farmer's Advocate in last fense and eulogy of "armer's Advocate" "in de-
dog, which would apest friend," the dog, which would appear to verify my former
statement that the friends of the shem hopeless minority in this glorious sheep are in home of the brave and the free." "The dog and his friends claim the right of way, and get it, and those commonplace farm animals, the horse, the rint," must keep off the road and off other people's property, and play second fiddle to his honor the dog. And although the writer of the letter so somery criticised freely admitted that there are not a word against the well-bred and well-behaved business; yet, because he and minds his own protection of his flock, he confessed that, for the ew sneaking trespassers of the species, he


Shropshire Shearling Ram
First at Bath \& West Show, 1907, Owned by whem Mnathematized, Scripture references are hand wows, and is even held in derision everlasting bow the act of stealing the children's bread, caught in and sympathy There is poetry for departed dogs
a word of commiseration loaved owners, but not for whose protection the writer was pleading for their owners, whose flocks, the result of years
of patient care and mated in a night by their prowling have been deciTnated in a night by their prowling enemies.
the shepherd
and in the others a veil is drawn. And ind were disposed to meet his Scripture-reference if has read those books that source, anyone they are there bracketed with is the compan complimentary to "'man's best friend ," so bein The "Shepherd" has merely sought to show have selfishness and indifference of the men whin have no. sheep, but keep dogs, most of them en willing to pay a tax of a dollar a year to provid or remuneration to flock-owners for losses sus ained through destruction of their property sus
dogs. However, this is too hot a cuss. However, this is too hot a subject for dis-
cust "dog days," when short sorm are in season, and I seek the shade of a weeping willow tree to ruminate over the possible conse quences of the careless reading of critics wh vould make me "the hero of a bulldog tragedy. achieve greatness, while others have greatnes thrust upon them. If I am in either class, I think must be in the last named. Rut even in hot appropriate just here is one that appeared in ate issue of "The Farmer's Advocate," " who had trained his watch-xpense by an Irishman uriously at tramps, but had also bark long and carry parcels in his mouth; and who hearin to disturbance in his house one night, struck a light and discovered his pupil carrying a lantern for dogs, like some educated fools of the some trained are easily bribed by the gift of office genus hom

## CHEAP VENTILATION.

Fditor "The Farmer's Advocate ":
You asked for my experience with the mush
curtain ventilotor
curtain ventilator I used it on our chicken house the winter before last, and it got rid of
moisture so well that I tried it on our sheep his past year. We fatten winter lambs, keepin hem in small pens 16 feet by 8 feet -30 lambs to
a pen: so, you see, are very a pen; so, you see, are very crowded in the barn the air very damp, and the sheep wet full of steam, 120 square feet of common sheep wet. I put on
6 -cent factory cotton On one side of a barn 34 ft by 40 ft . It cleared lighter and the air purer. It seemed the building nicer on the side of the barn near the muslal then we sat to watch the sheep, we would mit on that side because it was pleasanter, and what we having impure air in his barn when need of anyone late so cheaply, air in his barn when one can venti-
GILBERT $A$. PROLF
Rater

THE FARM.
THE FORCE OF PUBLIC OPINION
has a surprising influence on in a communit writes 1). Ward King in tis public sentiment, souri Idea." "Ordinarily treatise, "The Mis of road improvement. They know despairs short of macadam, at from $\$ 1$ 500 of nothing mile, and this to them seems an impossibility
While this frame While this frame of mind exists, the average man wonder why the overseer near the front gate and it. But when dragging is taken up by a neigh
borhood, that same middhole becomes matter-the owner of the front gate feels re-
sponsibility for it and the mudhole disappears.
Occasionally to drag; but as sentiment rises or intensifies, and ase trast with adjacent roatsts, attention by its conmore difficult to stand out against the more and
ylances and insinuating remarks onsed

Wallace's Farmer very properly joins issue with that education must has advanced the theory down. "In our jurdgment," from the university contemporary, "the very, observes our valued real basis of all the education is true. The chool, and we shall never have of the common fucted as they should be until our young people ation our entire system of common-scho a rewhen the boy plastic period of human life is to the Wut while he is in the common or or university. and give them teachers in closer tonsely practical liie around them, and the college touch with the do prospre as they have never done before. We the college liut we plead for the university or of
of the ninety and nine rat education

## いL) 18,1907


the teachers of agriculture in ontario HIGH SCHOOLS
We have pleasure in presenting herewith a few biographical notes, illustrated with half-tone portraits, of the six young men who have been
chosen to teach agricultural classes in six Ontarip High Schools, viz., Lindsay, Galt, Collingwood, Perth, Essex, and Morrisburg. Lindsay.-Francis Henry Reed, B. S. A., Halton County, will have charge of the Depart say. Mr. Reed was a member of the College
staff for two years, having been selected by the staff for two years, having been selected by the President of the College to occupy a position on
the staff when he had finished but two years of the staff when he had finished but two years of
his course. He afterwards resigned his position at the College, and this year completed his Agricultural College Course and secured the degree o B. S. A. Mr. Reed's people have been long in
terested in pure-bred live stock, two uncles having terested in pure-bred live stock, two uncles having
judged horses from Halifax to Vancouver. Mr Reed himself has also-competed-successfully in the students' judging team at Chicago.

(ialt.-Frank Cyril Hart, B. S. A., is a Nova Scotian. After serving his apprenticeship on a
farm. he entered a High School, and secured his teacher's certificate. After teaching school for five or six years, he came to Ontario and entered warly farm training and teaching experience, com bined with native ability, he was among the first men in his class. Before graduation, he was engaged by the Dominion Forestry Department for charge of the Department of Agriculture in the Collegiate Institute at Galt.
Collingwood.-Robert Elmer Mortimer, B. S. Collingwood.-Robert Elmer Mortimer, B. S.
A., is the son of a farmer in Dufferin County. He A., is the Son of a armer in ontario Agricultural College in 1901 , and from the heginning impressed the staff with

THE FARMER'S ADVOCATE.
rraduation, in 1905, he has been putting into practice, on his father's farm, the knowledge Agriculture in the Collegiate Institute at Collingwood, and, knowing the farm conditions in the Counties of Simcoe, Grey and Dufferin, should Perth.-Roy Stoves Hamer, 13. S. A., of York Co., Ont., goes to Perth. Mr. Hamer was a school teacher before coming to the College. While at the O.,A. C. he was Managing Fiditor of the
" Review," and in his final year developed a special aptitude for live stock. He was first at Chicago in the judging of horses, cattle, sheep and swine in 1906, meeting all competitors, and hav-
ing the highest score of all students from all ing the highest score of all students from all
Colleges in the United States and Canada. He goes to Perth thoroughly prepared for the work which he has undertaken

R. E. Mortimer, B. S. A.

Essex.-Angus McKenney, B. S. A., comes from Elgin County, Ont. Having been raised on a has been persuaded to undertake the work in Agriculture in the High School at Essex, near his own
home. Mr. McKenney has made a specialty of live $\begin{array}{ll}\text { home. } & \text { Mr. McKenney has made a specialty of live } \\ \text { stock. } & \text { He was on the students' judging team at }\end{array}$ stock. He was on the students judging ceam at and also was first in his class of twenty-two in
the live-stock competition held at the Ontario the live-stock competition held at the Ontario
Agricultural College Yor a gold medal. He has Agricultural cote age problems in poultry culture which have been useful to Ontario farmers. Morrisburg.-William Alfred Munro, B. S. A., of
Dundas Co., goes to Morrisburg, near his old Dundas Co., goes to Morrisburg, near his old
home. After teaching school for a number of home. After teaching school (Queen's University, years, Mr. Munro enterwards took his degree of B. A. He then entered the Ontario Agricultural College, and secured the degree of B. S. A., graduating in partment of Agriculture at Edmonton, Alverta,


A FUNGOUS DISEASE OF CLOVER
The farmers of Tennessee have for a number of years had serious diffculty in raising red clover. The trouble has been gradually increasing, until, within recent years, the crop has had to be almost entirely abandoned in many parts of the State. In 1905, Samuel M. Bain. Botanist, and Samuel H. Essary, Assistant Botanist and the State Experiment Station, began an investigation, and soon found a new and hitherto undegrribed fungous disease, belonging to a class generally known as anthracnose. They give it the
specific name of Colletotrichum trifolii. This disspecific name of in almost every field visited, and seems to exist in the severest form in the oldest and best farming sections of the State. So far






Barns and Outbuildings of a Large Estanciero and Cattle-breeder, Argentine

SOMETHING OF AGRICULTURE IN FOREIGN LANDS

The size of an Argentine estancia or ranch
varies from 3,000 to 600,000 acres, the average being about 20,000 acres. The people live very simply, and have little occasion to spend money,
almost their only indulgence in the amusement line being the playing of the guitar or mandolin Nevertheless, they seem contented, and if there is ittle extravagant living, there is also very little poverty among them.

NFLUENCE OF HEIGHT OF WHEELS UPON DRAFT OF WAGON
T. Speaking at a Missouri convention, Professor souri Mairs, Assistant Agriculturist at the Mistests made at the Station to determine the in fuence of height of wheels upon draft of wagon It has alread
tired vehicles, under almost alrated that wide draw lighter than narrow-tired ones, and that their beneficial effects upon roads are very great hauling advantage over narrow-tired vehicles, farm work, has long been recognized, and hardly needs to be mentioned. tired wheels has been their unwieldiness. It takes much more room to turn a wagon with a six-inch tire than it does one with a two-inch tire and the same height of wheels, on account of the rim of
the wheel coming so much nearer to the wagon bed, while, if the wheels are reduced in wago facilitate turning, the drait is necessarily in creased
To

To study the effect of height of wheels upon the wheels may be reduced in height without material ly increasing the drait, has been the object of some of our experiments.
The test was made with three wagons, and under a variety of conditions. Thee wagons, and
The wagons all known as "high "were of standard height, viz. 44 inches in front and 56 in the rear, while those
known as low were 24 inches in iront and 28 inches in rear. The high wheels weighed 692 ones 292 pounds. The dead weight of the wag-
ons, exclusive of wheels, and including drivor and
man to work divnamometer, wat made the man to work dinnamometer, was made the same in
each case, atoun 1,070 pound.
Then in loud of 2,000 pounds was each wagrn, making the total weight as follow:
High. 3,762 pounds : medium, 3,581 pounds, loin It was iound that the first two runs over any
rack drow hearion than latwr ones. lumt after the hetore wach test one of times, and the hest runs were made in their ground oi umiturn grade was chosen, wide enough
so that all the runs could be made without runThe ioflomme same track detailed results of tests Inry fraw road sand ahout one inch deep,
Ine smanly.



Advantage in draft of high over medium wheels, 3.0 pounds, or 1.9 per cent.; medium high over low wheels, 26.4 pounds, or 16.6 per At this rate, the draft required to draw 0 pounds on the low wheels would draw 2,G00 pounds on the medium wheels, 2,332 on the high

$$
\begin{aligned}
& \text { The draft required for } 2,000 \text { pounds on the } \\
& \text { medium wheel would draw } 2,038 \text { pounds on the } \\
& \text { high ones. }
\end{aligned}
$$ Gravel road, up grade of 1 in 44 , with about one-half inch wet sand, ground frozen with abou

length of run, 250 feet. length of run, 250 feet.
High wheels, average of two runs, draft 231 pounds.
Medium wheels, average of two runs, draft
236.5 pounds 236.5 pounds.
pounds. wheels, average of two runs, draft 291. Advantage of high over medium wheels, 5 pounds, or 2.2 per cent.; medium over low wheels wheels, 59.7 pounds, or 25 cent.; high over low At this rate, the draft required to draw 2,000 pounds on the low wheels would draw 2,460 pounds on the medium wheels, or 2,516 on the high ones, and the draft required for 2,000
pounds on the medium wheels would draw 2,044 on the high ones. In cornfields, across rows laid by spring-tooth for working. In the last cultivation the ground was left as nearly level as possible to ground thus the rows afforded no ridges to speak of, High wheels, a average of 1 wo runs
pounds.
Medium
360.1 pounds. Low wheels, average of two runs, draft 445.6 Advantage of high over medium wheels, 24.4 pounds, or 7.6 per cent.; medium over low wheels,
85.5 pounds, or 23.7 per cent.; high over fow pheels, 1099 or 23.7 per cent, high over low
At this rat 32.7 per cent. At this rate, the draft required to draw 2,000 pounds on the medium wheels, or 2,654 on the on the medium wheels would draw 2,000 pounds

## As an average of the twelve runs madn unde

$\qquad$ we have an advantage
he medium ones of $6 .>$ and an advantage of the medium ones over the

ween the high and that the difference in draft be While thet between the medium and low wherlat considerable. The greatest care with which the loaded and unloaded would can be turned and ris increased draft over one with whels normal (highest) height. somewhat in convenience of turning and loading over, another great disadvantage proption. More with wheels as low as 24 and 28 inches is the

increased vibration increased vibration of the tongue, which is almost, in not quite, as worrying upon the tearn as the sore on top. On the other wagons thorse's neck "as not noticeable. Araft, Tangernience, etco, we believe that including sumature height for wheelse of a farm, wagon, most
chally one with wide tires is


POOR

## THE DAIRY

FROM GUESSLAND TO FACT PASTURE The dairy cows of Illinois and lowa are feedil in Guesstand, writes wilbur J. Fraser, Chie ary Husbandry, University of Hinnois, in that piquant and original style which has characterized his several recent communications to the agricultural press. The dairyman simply guesses at the milk they give and the money they make him. T dairyman doesn $t$ guess at the amount of mone time. Then why should he puess the milk time. Then why should he guess at the milk his and never thinks how he it it is a poor rule that will not work both

He only from Guessland to Fact Pasture where the dairyman knows the annual production There is no other way but to weigh and test the milk of each cow separately. All estimates and guesses miss the mark, and most of them miss it
a long ways ; they are absolutely unreliable. This a long ways; they are absolutely unreliable. This
is agreed to by all the dairymen who have had practical experience on both sides of this question This testing brings many surprises to the most xperienced dairymen. It is not only the most only way to learn the facts.

While there is but one entrance to Fact Pas there are two ways out of it. One is the how naturally and how soon the poor producers side of the pasture is the fine harn at the othe feed of the proper kinds provided by John Think well, who keeps a really high-profit dairy, and has Here the high-producing as well as for his cows thoroughly appreciated. they in known and find pasture and plenty: And here the poor proThese words are well weighed-and so should he the milk of every dairy cow. ./ Weighed in the 2 thousand times more dairy cows than of of hme kings. So true is the Babcock test, and so sadly needed in Illinois, that it may almost be ressive dairyman himself. Science has riven aimple and practical and proven thas given a airymen, and now the dairyman. as well as his

## FLOATING WHEY TANK

elruary meeting of the Michigan Dairymen's the ociation, one speaker told this stor
They say there is nothing new under the It believe I once discovered something Henry, said a loating tank, and my friend, Mr. float, too?' A new factory he calves and pigs of the southern counties, and been built in one we would call a cistern, and they had put what whey. The space around the cistern. for the was richt The morning we visited this factory the eaves atter a big rain, and the water from hole, and the whey tank wa ground filled in the ing up, to it with and out. The farmers were wad boxes, pumpinith rubber boots, laying were wad cans, and poing the whey, putting it into their hed. There was little danger of a man stealing tharrels, and I share of whey. Some makers use did. He said, Well, the farmers steal whey, he so we put each patron's whey into a tank of his Hust put my nose over one of those barrels, and It had not been cleaned out, I will guarantee, in
three months. You cannot raise pooll calves on that kind of stuff."
". We seemed to have larger crowds of visitors here were at least 31,000 people on the grounds taring June alone." writes President Creelman, of e hackwardness of the College. Considering sh of farm work, this is a most gratifying re apporeciate the institution as time are learning on aid there is no hetter place to go than and then
$\qquad$
the manitoba dalry special There have been corn specials and seed-grain
specials that have given good results. dairy special, through those parts. of Manitobe question was asked by the President and staff of
the Manitoba A Aericultural CCulere and with the assistance of the Canadian Northern
Railway. The train pulled out from Winnipher on Monday, June 24th, and between that time and
Mine 27th lectures Given at the towns of Elie, Gladstone, Plumas Glencairn, Neepawa, Makinak, Swan River
Thauphin,
Sifton, Woodlands, Lake Francis, St Laurent, and Oak Point. Attendance was very

C encouraging, the car being filled at nearly every
point with men and women who had come tin
learn. Those
 of the M. A. C. Pror. Carson, of the Dairy De
 the care of the cow.
The actual giving of instruction as to dair methor, oreible style, set the main points before the the
clear maiences. He said that never before hod
auther prospects in Manitoba been brighter. But there was arge room for growth, for this industry, up
to the present. had failed to keep pace with the expansion of the Province in other directions,
There is not enough butter made to supply the ome demana, an in Mactitata none is exported pounds of milk in a year, whereas the proper cow,
given the proper care, will produce from 5,000 to given the proper care, will produce from 5,000 to
6,000 pounds. or even more. The only way to Judge a cow is by what she produces, and the onty-
way to estimate her exact production is by keep ing a record of her work during the year. In
this record-keeping the College was anxious to assist, and was prepared to test the milk and
keep the records for a year for would weigh the milk rrom the cow to be tested night and morning three times a month, send a sample of this milk in special bottles to the Col-
lege, along with a statement of the breed, name, age and weight of the cow, and owner has kept
when she came in. Then, if the owne track of what it has cost to feed her during the year,
he will know whether she is a profit or loss to him, and will then act accordingly
airy cow was corn ensilet the best feed tor the bran. He believed that corn for fed, and clover,
could be satisfactorily grown in this Province. Care in milking
In speaking of the disposal of the milk, the mal the milk contained no harmful germs, but the ack it, and the capacity for receiving such was in the proportion of twelve million germs
every sixteen drops of milk Such germs every sixteen drops of milik. Such germs, in
thousands. were found in dirty stables, unscalded milk pails, on the clothes and hands of the milker,
on the sides of the cow. on the sides of the cow. He recommended, as a,
remedy for the last named, the wiping of the cow's sides and udder with a damp cloth, which would
prevent germs from dropping into the pail. The separator, and all utensils connected with the disposal of the milk, he said, should be thoroughly
scalded every time that they were used. Many had the impression that washing each was an error, the practice of which spoiled the
flavor of the cream and butter. Separating the milk The milk should be separated as soon as pos
sillue as it comes from the cow, as its temperature about 98 degrees. A h higher degree of hequt than
this is better, but not convenient to obtain. If the milk is allowed to stand, it should be heated again to at least 98 degrees before being put
through the separator. If the pan of the separator were filled to the top the milk would go
through faster giving more in quantity in the through faster, giving more in quantity in the
cream can, but thinner in quality. The faster the force, and consequently the more skim milk thrown off and the less cream in the can, but this cream
would
ButTermaking and selling
The Professor spent much time on the subject the fact that buttermakers must suit the tastes o making butter for market that suited themselves when their customers demanded something else
Many customers liked butter that had a good deal Many customers liked butter that had a good dea
of water leett in it, say from. 12 per cent. to 16 freshly made. This was a demand the dairyman should endeavor, for his own sake to meet, pro-
vided the butter was to be used at once. Such
butter would not keep long withuat lusing flavor.
Other customers liked but er thade from sweet cream, rather than sour, hut this was open to the Keep long and retain its sweet flavor. general storekeeper. He generally gave one price
for all, good, bad or indifferent, packed it all tofor all, good, bad or indifferent, packed it all to-
gether in a box, and shipped it away. The good irom a superior article. The best method prosit wand regular customers, and then cater to their wants, whatever they might be. With such cusbutter counted for much. It should be carefully ehurned until the granules were about the size of wheat, then washed as little as possible, but until and carefully wrapped in butter-paper. The reQUESTIONS AND ANSWERS
There was much intelligent questioning at
every place. Here are a few examples oi the questions propounded :
What makes cream hard to churn?
It may be too thin. Cows may have been
milking for some time. Feed may no proper quality, and more bran should be given. What makes butter mottled and streaked? The butter is in large lumps, and cannot be properly worked or salted. Stop churning when
the butter is like grains of wheat. the butter is like grains of wheat.
Does it hurt to mix sweet and sour cream together before churning? will be seen rising on the top of the buttermilk, is a safe rule to add no creamg to the supply for
r.ELATION BETWEEN PERCENTAGE OF FAT AND QUANTITY OF CREAM
. The following table, taken from the bulletin, the pounds of cream produced for 100 pounds of me pounds of cream produced for 100 pounds of







等
separators to skim nearly the kind of cream they wish by weighing the milk and cream. For in-30-per-cent. cream is desired, there should be 12

BRITISH COMMENDATION OF THE DAIRY COMMISSIONER'S STAND

Anent the stinl live subject of shipping green cheese, the following excerpt from an editorial in
the Grocers' Review, Manchester, Eng., is app propriate: A. Ruddick, the Dairy and Cold-storage tommissioner, of too early to one or two special phases of the cheese trade. Since public reference was made to the alleged conditions in the large packing-houses in the States, an impetus has been given to other
industries, one of them being the cheese section.

The demand for this article rapidly extended, and, sun shone, the makers in Canada-and elsewhere, for the matter of that-got their chese onto the market as soon as it was at all possible. Tem-
porarily, this was all right, perhaps, from the farmer's point of view, though, as most experts know, a reaction would almost inevitably follow. This has been the case, and the trade and the public generally are showing their undoubted retheir commodity in green conditio the The Review then goes on to quote a portion of Mr. Ruddick's circular of May 7 th, and throws out an interrogative suggestion in the words, " Will
English and other cheesemakers take the hint?"

AIR TREATMENT FOR CAKED UDDER. Dr. Peters, of the Nebraska Experiment Station, treats caked udder in cows in this way "I have here an ordinary milk tube, with a something like an ordinary hand bicycle pump. Now I insert this tube carefully into the quarter probe in there with darning needles and other organ with air, and it is like filling a this spongy water. If the udder is caked, you put in as much air as you can. Then you massage or work with your hand, and work that air all through the quarter, and you will hear the bursting of these
little vesicles--these little tubes. You can burst all of them in two or three applications of that kind, and you will generally restore the udder. I have treated several hundred very bad cases, and easily do it. ing has become caked, we use what is known as the compress. We take a piece of heavy cloth and tie it on top. We usually use straw with it, so that we do not chafe the back of the ani-
mal. That is to relieve the pressure matice that is to relieve the pressure. You will pressure must be relieved before anything else is done. If you want to assist, take several small, five or ten pound bags and fill them with bran, ery gis the treatment we use where there is a bory great amount of congestion. Now, these are he udder that I can explain - the masse disease of iseased quarter, and the compress for the for the

## DAIRY RESEARCH

SWEET-CREAM BUTTERMAKING Bulletins Nos. 13, 14 and 15, from the Dairy Department of Agriculture, Ottawa, deal with Sweet-cream Butter," "Apparatus for the Demination of Water and Fat in Butter," and The conclusions from the investi by Prof. Shutt, of the Experimental Fas made awa, regarding sweet-cream butter, are : (1) oss of butter-fat than in the ordinary greater with ripened cream. (2) The keeping qualities superior to those of the ripenedter are distinctly These results of the ripened-cream butter. airy Department of the O. A. C., except that the should qualify concluion 1 by saying, "If the coniat by churning sweet there is no greater loss of as indicated by the experiments detailed tendency, bulletin, is for a greater loss of fat when churning he sweet cream, as compared with ripened cream, careful in his work ESTING BUTTER FOR FAT AND MOISTURE The tests of apparatus for fat and water de Shutt. The apparatus consisted of the by Prof butter-test bottle, and the Wagner butter hyy grometer. Speaking of the test bottle, the author test bottle depends largely upon the trom this of the contents of the bottle when the fatperature is read." The bottle gave results consomant with 1 c. c. acid (sulphuric), and reading the by using umn after placing the bottle (direct from the colchine) for ten minutes in water that had a temgrometer, the writer speaks of the butter hyconsiderable experience, we as follows: "After qualified terms as to its general satisfactoriness", In other words, he does not recommend it practical purposes in determining the moisture in In this connection, it is interesting to note the Kay: 'Trying to approach the Prof. G. L. Mc- 16 -per-cent. limit is a very dangerous practice, and should not be
resorted to." This warning is one that may well indicates too much carbohydrates (starchy. sugary
be given to Ontario buttermakers. We recently and such matter) or a lack of meat. If the dropheard a creamery-owner say that he was going to put all the water into his butter that the law will allow. In trying to get all the water in butter
which the law will allow, some of our buttermakrs are likely to get more than the law allow Someone is likely to suffer.
The bulletin GATHERED CREAM
The bulletin on " Gathered Cream," by Messss. for improving the results at the cream-gathering creamery. It is illustrated with plans for water tanks to hold cream cans for cooling cream from a separator or for setting milk in; to
cream by gravity process in deep cans.
The table on page 10, showing the relation between percentage of fat and quantity of cream, is a very good guide to the operator of a separator for testing milk; but he may as well have the cream tested, also, and know what percentage of fat his cream contains, thus savine the trouble of weighing milk and cream. The table is of little
or no value unless the fat in milk is known. Then, or no value unless the fat in milk is known. Then,
too, it should have been qualified, by saying that the table is correct, assuming that there is no loss As fat in the skim milk, nor in handling the milk. As there is always some loss in both,
ie any case, is only approximately correct
The summary of important points includes some wery good paragraphs, that have been quoted last
week in this department. H. D.

## POULTRY.

SEASONABLE NOTES ON POULTRY MANAGEMENT
Bulletins," the Uneneral classification, "Farmer culture, at Washington, issues from time to tim a series of very instructive and readable publica
tions. One of the latest to hand is Farmers tions. One of the latest to hand is Farmers
Bulletin 287, by G. Arthur Bell, Assistant Anima Husbandman of the Bureau of Animal Industry Washington, D. C. It is ontitled "Poultry Man agement," and is a condensation of an article
written for the twenty-second annual report of the Bureau. We quote from it a number of season able suggestions for the Poultry Department "a The Farmer's Advocate "' this week

Plenty of fresh water should always be a cessible to the hens. If supplied irregularly, the not be exposed to the sun's rays in summer allowed to freeze in winter, if this can be avoided A flock of 50 hens in good laying condition will require 4 to 6 quarts of water a da
When properly fed, milk is excellent for poul
In feeding sour milk or buttermilk how try. In feeding sour milk or buttermilk, how
ever, the feeder must be careful not to give to ever, the feeder must be careful not to g
much, or bowel trouble will likely result.
milk is an econotnical feed milk is an econonnical feed. Skimming leaves the substances-in the milk. Not only does thi
skim milk contain much nutritive material then contains it in a form which, as a rule, is easil digested. Skim milk may often be advantageous in mixing the soft food, or it may be given to drink in addition to water.
FEEDING HOW Some poultrymen feed their flocks twice a day others three times. The best plan-is to fee ree range in summer twice a day. When there is a long time between feeds, it is difficult to keep
confined fowls busy, and ide birds contract bad habits, such as feather-pulling, egg-eating, $f$ exercise.
EFFECT OF FEED ON CHARACTER OF EGG feed have been imparted to the egg. Onions have been fed in sufficient quantity to bring about this
Feeds of high and objectionable fore
Feed effect. Feeds of high and objectionable flavor a first-class article. In no case should tainted
feed be allowed to enter into the ration. Ficed also has an influence on the color of the yolk highly-colored yolk, while wheat ied alone will produce a much lighter-colored yolk A fairly
high-oolored yolk is usually percred, and mat generally be obtained hy feeding a moderat
amount of corn. I'lenty of green lieel also deep ams the co
DROPPINGS AS AN INTICATIOS WF HWALTH The condition of the droppings furmans a good sufficient consistency to hold the grayish white. If the droppings tapering off pasty, and of a yellowish or brown
and such matter) or a lack of meat. If the drop
pings are watery and dark, with red splashes mucus in them, it indicates too much
meat. A greenish, watery diarrhara usually indi cates unsanitary conditions in the surroundings the feed or the water.
SEPARATING THE SEXES
Poultrymen consider it a good plan, where Convenient, to separate the cockerels and pullets, as both will thus develop better. In the case
the more precocious breeds, they should separated when removed from the hen or brooder. The slower-maturing varieties may be
allowed to run together somewhat loger, but in allowed to run together somewhat longer, but in
any case the separation should be made before the any case the separation should be ma
cockerels begin to annoy the pullets.

## TEACHING THE CHICKS TO ROOST

It is often advisable, says Rell, in his bulletin to roost when eight to twelve weeks of age. When allowed to remain on the floor, it is difficult to keep them clean and to keep them from crowding
If wide roosts-3 to 4 inches- are used, there is If wide roosts-3 to 4 inches- are used, there is than if the chicks are allowed to remain on the floor. The chicks can generally be taught to
roost by putting the perches near the foor roost by putting the perches near the floor, and
placing with them one or two old hens or older phicks that are in the habitwo of roosting. If this plan is inconvenient, or does not prove effective the chicks may be placed on the perches after dark for a few nights, until they have learned to
go there of their own accord.

## APIARY. <br> SMOKER FUEL.

Anything that will hold fire and give smoke cartain kinds of fuel are more desirable than other kinds. Rotten wood is, perhaps, more used thar anything else. It will hold fire well, too if it is I now use, rags, because it it as well as what to get it. Some apiarists is too much trouble
shreds in which brealsior-wood Shreds in which breakable things are packed for
transportation-and it burns well, and gives a good smoke, too : but for me, it is not lasting enough As all beekeepers do not see things in the same why I mention it. "Gunny " excellent; that's used by one New York beekeeper for a good many years. He lays them outdoors for several months the action of the sun and rains will partially ot them. If they are not allowed to rot, they
will not hold fire so well, and are more liable hlaze when working the smoker bellows much, as
I know from experience. After the sacks have otted enough, they are rolled onto a stick-win-
low-shade fashion--which is then pulled out and


Smoker and Rag Fuel
suggested the use of greasy cloths for Bmok The editor said that it could be picked up road tracks, where it is dropped by engine it necessary to get greasy rags from there, accumulate sufficient for smoker fuel b every rag used for wiping off greasy parts, buggy axics, etc. As such olly rags ment, I do not roll them into "wads. piece is too large for the fire-cup, it is torn s
er. I like to put a few chips of wood er. I like to put a few chips of wood on th from the cook stove and fill the smoker greasy rags. By putting on more rags as th as they burn down in the smoker, one need

## GARDEN 憝 ORCHARD

SYSTEMS OF PACKING AND SELLING APPLES Last week, under the heading, " History of the Apple Trade in Ontario," we quoted from Mr. Mc of Apples," concluding with the four important $r$ g quirements found necessary for successful catering ruit foreign demand, to wit: Large lots of and marking varieties und the employment packing, grading abor. are in meet these conditions, a variety of method are in vogue, for each of which something may he
said. To quote again from the bulletin referred

1. The grower of the fruit may pick, pack and sell on his own account.
2. The grower sells on the tree, the buver do ing the picking and packing
3. The grower sells, picking the fruit, the
buyer doing the packing The selling may be .
price per barrel, with a hy the lump price for or at a 2nd, or a different price for each grade. quantity of fruit to be gathered to impress the market. The expense of securing a suitable marmet is considerable, and is almost as much for a opportunity of securing uniformity for is no lots. This method is largely confined for larger arket quantity of fruit being gathered permit a larger with some degree of uniformity under one brand oing so is excessive, and must ultimately The men employed in apple-picking are hired or only a few weeks annually, and it can be services frequently prevail. It is not uncommon or a single buyer to have ten or fifteen gangs. ployed at one time 70 gangs, working hundreds
of miles apart. circumstances is impossible. As a result, time and money are wasted, partly as a necessary result of the methods of working, partly as the re-
sult of the class of help obtainable, which cannot be trusted, except under close supervision.
In 1904 many thousands In 1904 many thousands of barrels of apples
were bought at 50 cents per barrel, whereas it were bought at 50 cents per barrel, whereas it
frequently cost no less than 45 cents per harrel to pick and pack the same apples.
In 1905 and 1906 prices for apples were himher but there was no reduction in the cost of pac ing. It is asserted too, by the buyers, that
where the apples were bought by the barrel, the Where the apples were bought by the barrel, the
growers, either by cajolery or bribery, induced the
packers to put in many inferior apples to increase the number of barrels.
In the older orchards, in which varieties cover ing the whole orchards, in which varieties cover-
found imposse grown, it was also torvals necesssary to pisk the orchards at the in-
vark the different heavy source of loss, in consequence, was the
waste which resulted from hefore or after they were matured, or in allowing
them to go to waste entirely them to go to waste entirely. It, not in allowiwing
happens, too, that the buver. through fly happens, too, that the buyer, through failure sun and frost, caused a partial or total loss. Gen-
crally the grower is the
$\qquad$ agreement so drawn as to cover farmer have an
if he does secure judgment, the and
buyer poo often has assets upon which he can buyer too often has Tair to the grower, inasmuch as the buyer is Hkely to te very skilliul from long practice in es-
timating the cmantity of lower and sirller are of thus not in an orchard. The terms. In the few cases where the grower gets
more than the orchard is worth he is in the pesirquivalent

THE FARMER'S ADVOCATE.
placed upon the marke
of apple. As has been
$\qquad$ therefore, is very strong-to She temptation sisted in many cases-to include inierior appl
with the better grades, and to pack everything in
the orchard, with the hope of for the poorer qualities. they are obliged to make
$\qquad$ ers are very careless of th fruit in their reach can the buyers depend in course, the buyer is the
sponsible for them, but upon those who are re
SELLING BY THE BARREL
defrauded by a very simple device on the part packing. The packer will set a very high stand grower will find probably not more than ten per standard of the No. 2's will graded No. 1. The anderstood by the grower, presumed the ordinary
und the buyer usually has his own way. Of course, wards remarked, but if not, they are sent to secure an extra price.
On the other hand, buyers are sometimes personal friendship or by direct brile packers, by duced by the grower to put in a poorer quality rruit than the grade would call for. There is no
possibility of a proper inspection by the buyer in market bearing the buyer's brand, that are, never-
theless, fraudulently marked by his
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$\qquad$ to be made. Tinde, trivial complaints are it: like
slip in each package, stating dev
 Th SING BY COMMISSIO
$\qquad$ packed ready for market, makes of it until it is a necessary evil, as the fruit trade is organized ganization among fruit-growers is to do af or-
with this method of selling, except to a very limited degree. It is perfectly true that there are
many reputable commission merchants whose record for fair dealing is unimpeachable. On the
other hand, there is scarcely a fruit-grower in the
business to-day who has not suffered severely consequence of too great a trust in the commis-
sion business. It is absolutely impossible for the average fruit-grower to tell whether he has been
dealt with fairly or not. He cannot audit the
accounts, nor follow his fruit to the next word of the commission man for all facts con fact, to the commission man, "Here is my fruit,
give me what you please fon it." It would be yield to the temptation and send returns far be
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-- A more serious defect of all these methods is that the interest of the buyer in an orchand does
not continue from year to year, and does not be-
gin early enough in the season to permit him to
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$\qquad$ the returns from certain sections of the country, that in years of low prices thousands of bushels of
good apples, and those that might have been good
with proper care, have been allowed to go to INTRODUCTION OF THE CO-OPERATIVE It was with the object of providing at least a
partial remedy for the evils above referred to that the co-operative method of selling apples was first
adopted. The experiment has been, to a certain extent, successful. In Ontario, the original purnumber of small lots of fall apples into car lots
for shipment, with the object of securing thereby
a reduction in freight charges. Each member of
$\qquad$
own apples, while the selling was entrusted to one
of the members having a business connection in
Western Canada or some of the large commercial
$\qquad$
$\qquad$

vantages which it failed to mitigate were, a lack
of uniformity in grading that militated against
good prices, and the absence of general interest
among fruit-growens, and of incentive to secure
among fruit-growens, and of incentive to secure
many much-needed improvements. It was decided,
therefore, by the pioneers of the movement to
obtain more formal organization and added
definiteness
$\square$
found, in the case of Ontario, where the move-
ment for co-operation originated, that legislation
sufficiently comprehensive in character to meet
the needs of the situation was already
the needs of the situation was already on the
statute books of the Province, in the form of an
Act passed in 1900 to provide for the incorpora-
tion of co-operative cold-storage associations, and
up to the present time no additional
up to the present time no additional legislation
has been sought, with the exception of one or two
amendments to the Act passed during the prosent
amendments to the Act passed during the present
year to secure its adaptation to the req
of the developed form of the association.

A CHANGE IN FRUIT PROSPECTS. Speaking from the Niagara District, a great
change is evident in the fruit crop. The long-
continued drouth in some parts very much lessened
the strawberry crop, which, however, has brought
unusually good prices. The cherry crop is very
short, so much of the fruit has blighted and
dropped. We are now (July 5th) harvesting Gov-
ernor Woods, which are only about one-third of
a crop. The black hearts, such as Knight and
Tartarian, are very scant, and so are the Yellow
Spanish and the Windsor. Both the latter are,
however, such large cherries that it needs but
few to fill a basket. Pie cherries are a goood
crop, especially Dyehouse and Richmond. Cur-
rants and gooseberries promise well, but the plan-
tations of these are much reduced. Pears are a
complete failure. Bartlett and Duchess blossomed
fairly well, but only an occasional pear remains
firm on the trees. My orohard of Bartletts that
gave over 3,000 baskets last year, will not give
over 50 this year. Plums are dropping daily
from the trees, and the crop will be very light.
Peaches are fairly good, but a large number are evi-
dently dropping, because not sufficiently fertilized.
so the crop will not be so very large. Grapes never
promised better, have set remarkably well, and
will be a profitable crop this year. But, on the
whole, the fruit crop promises to be short, and
the prices high.
COOLING FRUIT IN CARS INSTEAD OF WARE-
HOUSE.
Some of our readers may have noticed news-
paper mention of some experiments being made
at St. Catharimes, under the direction of the
Dominion Dairy and Cold-storage Commissioner,
to test a means of cooling refrigerator cars of
fruit by means of currents of cold air. Inquiry
at headquarters reveals that the announcement
was premature, inasmuch as the results were still
a matter of speculation. It seems that Com-
missioner Ruddick has devised an arrangement for
utilizing the cold-air currents of a mechanical-
cold-storage warehouse for cooling cars placed
alongside the warehouse. The idea is to load the
fruit directly into the car, instead of putting it
first into the warehouse to be chilled, thus saving
considerable time and handling of the fruit, as
well as protecting it from the accumulation of
moisture. which condenses when it (the fruit) is
being transferred from the cold warehouse to the
car. . The idea is not exactly a new one,"
writes Mr. Ruddick " as I Ahelieve something ha
been done in the United States along the same
lines in the citrus and banal he adds, " we do not know how this is to turn out, and I
at present.

## JUNE FRUIT CROP REPORT

The second Fruit Crop Report of the season issued by the Fruit Division, Ottawa, under date June 29th, remarks that additional and fuller notes on the effects of the past winter on fruit
trees have been received with the June reports. Trunk injuries are proving to be much more num erous than was suspected last month. This is particularly true along the northern borders of the different fruit belts. Apples, pears, peaches and plums (particularly the Japanese) have all suffered. Red raspberries have badly winterkilled, and the general outlook is for a light crop: but in favored situations, where the plantations have been protected from winter-killing, medium and even full crops have been reported. The Herbert raspberry stood the winter better than the
Marlborough and Cuthbert, which have hitherto been the leading market varieties. Black raspberries were badly winter-killed, but will yield relatively as well as the rest.
suffered severely by the winter lanted in especially red varieties, are being ing well where the bushes are protected from the currant worm. There is apparently less risk in
growing the currant than any other of the small growing the currant than any other of the small
fruits. Only in a few cases has any injury frost been reported, but in the comparatively few districts infested with San Jose scale, currant in-
juries due to this insect are juries due to this insect are reported.
Gooseberries are a medium to full
excellent English varieties are now being grown successfully in British Columbia, and are likely to be a commercial feature in the near future. Late spring frosts seem to have seriously ports the loss of 500,000 plants, another 150,000. It was expected that these losses in the early plants will be in part made up by later
plantings, but there will almost certainly be a plantings, but there will almost certainly be
shortage, not only for canning purposes, but the general market. Fortunately, since May
thath the weather has been most iavorable for rapid growth.
THE CANNING INDUSTR
The fruit-canning industry is a larger factor it
the small-fruit problem this year than Canners usually make the contracts for nearly their full supply long in advance, and they appear
in the current market only to absorb a surplus. at a price that will yield a little more than the
cost of transportation, packages and picking This year they are buying in large quantities, at fair prices, outside of their early contracts. Many correspondents have reported most favorably upon
the influence of the canning factory in their neigh the influence of the canning factory in their neigh
borhood. FOREIGN FRUIT-CROP CONDITIONS
Weather conditions in Great Britain have not
been favorable Frost and cool weather have beevavorable. Irost and cool weather have
previled. Indicans up to time of writing
were for a medium crop or something less of tree fruits: small fruits somewhat better. Continen-
tal Furope will market not more than a medium crop of fruits of all kinds. Late hrosts and un
seasonable weather have prevallod almost univer sally. According to the June crop, report of the
Inited States Iepartment of Agriculture. apple prospects in the lepublic will not he nearly up th
last vear. Practically all the proat applapro
ducing States shou a lower average oin conditions Insect pests generally, will be less prevalent
than last yea.. The cold, lackward spring has
been unfaveralife for their normal development, so that insects of all hinds hase been slow in making
their appearance. Thus. those who wisely tak. advantage of natures handicap, and ussist her hy
spraying, will undoultedly securc thon rewarl in

PESTS IN EXPORT FRUI
Germany, and

ORCHARD COVER CROPS
$\qquad$ cason row. The year when the trees have ceased the recognized as a valuable feature in orchard man. agement, although, like many other good things, is not used as much as it should be. In the days when orchard lands were not even chard was deemed of more value than the iruit crop, there was no opportunity to use cover crops. But the tide has changed. Since orchards have
been called upon for larger crops of better fruit the need has been felt for something which would check the luxuriant growth induced and fertilization and lull the
before the coming of winter met by the cover cro
orchard in the spring best method is to plow the proper condition, and, ay early as the soil is in down weeds and put part of the season, to keep the best possible condition for the use of the trees. Ordinary judgment teaches us that, if we to growing apples or pears, it is poor economy the size and quality of the fruit, be used up in forming luxuriant couch-grass or vigorous rag weed From the time it is plowed in the spring ficient cultivation to liberate the largect propuf tion of plant food available, as well as to retain the moisture, by forming a mulch. But there conducive to the best interests of the orchard $B$, midsummer the new growth of wood and leayes is practically finished, and it remains only to mature and ripen the new wood and iruit. It is then grows, it gradually takes more water and as in food away from the trees, so that their growth is somewhat checked, and late, sappy growth pre vented. Consequently, by autumn the wood is winter without much danger of winter-killing Some of the main advantages of the cove 1. A cover crop adds are as follows table fibre to the land, thus preventing hard soils from oementing or puddling. quickly runs off, and the snow blows off the high portions, a growing crop tends to hold the mois3. The cover crop usually forms such a thick dense mat that windfall apples are scarcely
bruised. the snows in wintered and thus pegetation will hold ing, thereby avoiding the liability of the roots
being injured. 5. The dense growth will capture filling and hold them on the land, thus adding -more humus to the soil, instead of allowing them to be
b, 1 lown off to the fencract 6. Land covered by corners. lieved of some or its excess moisture in the spring. wing to transpiration of moisture in the spring, leaves, and may be plowed a little earlier than and which is bare. This fact enables the fruit7 . The roots of the cover chol roots in rendering certain mineral plant foods 8. A cover crop affords the most economical the soil. large amount of plant rood is continually food, instead of being leached into the subsoil, is
held, by a growing crop in a readily available
form lorm ior the following season.
10 . Leguminous crops, such as clovers, vetchrganisms which inhabit nodules on their roots,
re able to assimilate nitrogen from the air Cituent, the value of this class of plantsing conAccording to the season, a cover crop should hin the crop should be plowed the same season. th cultivation unting as possimbe, follow as early in
find heans, he virtue of the noturches,
are capal, of utilizing atmospheric
Where land is deticient in nitrogen

## should be grown. Such nitrogen.

pounds per acre, it forms a close, dense mat
Tives an excellent growth the same season. Its
lose, dense growth forms no incouveni close, dense growth forms no inconvenim..
apple-pickers to find the fallen fruit. Red cla
when sown at the rate of when sown at the rate of 20 pounds per usually makes a fair growth, and generally
close to the ground. Alfalfa, when sown rate of 30 pounds per acre, is one of the best trogenous cover crops for dry land. Its habit growth, however, is, as a rule, more upright than
that of hairy vetch. Rye, buckwheat are also useful, though they gather no atmospher nitrogen. As a general rule, it pays to use differ ent cover crops from year to year, for the same reasons that rotation is advisable in the fields.
Hastings Co., Ont.

## THE FARM BULLETIN

ENTOMOLOGISTS DISCUSS POPULAR SUBJECTS
$\qquad$ ege, Guelph, on July 4th. This date was decided upor course at the Macdonald Institute might have the portunity of attending the sessions and getting glimpse of the work entomologists are doing.
The first paper was by Mr. H. real, who discussed two small butterflies common this season of the year, and by some entomologists be lieved to be different species, by others thought to ties. After Mr. Lyman's each other merely as varie of the great pleasure and benefit to be found in rearing insects from the egg through all their different stages and in observing the changes that took place. He sug sulphur butterfly. doin the tent caterpillar and its parasites The secord paper was an account by Dr. Brodie, of colony of American tent caterpillars, along the ridge colony when it was moderately harge; he first saw the or two it became very numerous, and stripped all the wild cherry trees of their foliage, until the caterpillars had to scatter to the other trees of the forest-like the
maple and elm-for food: how he took 400 of these and reared them, he took one year over 500 , and found that a large number of parasites ouad assalled them, especially in the later year. So great
was the number of parasites that year that very few thoths ever emerged, and in their stead a swarm of parasites came forth from the cocoons. The next year
ciacely a tent caterpillar could be found out of the nce numerous host, so albundant had the parasites beparasites of gypsy and browntail moths. This paper led to very interesting remarks by Dr
Ietcher, on the methods of fighting the rown-tailed moths in the State of Massachusetts. He infarmed us that not only was the Government of that pests by artificial means, such as spraying dreaded had also one man in Japan looking for parasites, and orty men in Europe for tho same purpose. As a reult over 90,000 parasites have been shipped to the
infted States the Thited States the last two years, and each one of these
has been carefully examined before setting it free in the hrests, the danger being lest an injurious parasite might otherwise be allowed to get a footing on this continent. At last these efforts are beginning to be
fewarded. it is believed, in a diminution of the numbers the balance up vitulbe
$\qquad$ Nash described how nature, when not interfered with m . man, maintained in a wonderful way the balance of life.
tooth animal and vegetalli. of nature even the cortling moth and the cutworm have withe to fill in preventing the overloading of a trey Wlane, and how apain the purasites of some species of
$\qquad$
$\qquad$
$\qquad$
$\qquad$

$\qquad$Montholsty. Mr. Nash said that if we used in in our
moselitoes as carriers o
Trwhaps the most interesting address of the session




逶活
and fortation

PEOPLE, BOOKS, AND DOINGS. Mr. William Wilfrid Campbell, the canadian poet, has now launched "Ian of the Arcades." Mr. Campbell will contribute a series of articles
to this department of ". The Farmer's Advocate" during the fall of this A new Canadian Art Club has been ormed. The first exhibition will be
held about the end of November.
$M$ Ravaillier M. Ravaillier, C. I., of Paris, has invented an automobile that may be propelle
land.
There was an interesting meeting of England, the King of Siam, and Mark Twain. King Edward very
much enjoyed the American humormuch enjoyed the American humor-
ist's jokes. The account of the meeting will. it goes without saying,
go down in literature-with variations.
The degree of LL. D. has been con-
ferred upon Senator Coffee by the ferred upon Senator Coffee by the
University of Ottawa. Dr. A. © : Vogt has gone to Europe,
where he will make preliminary arrangements for the trip of the Men-
delssohn Choir to Fngland in 1909 . Dr. Thaddeus Cahill has invented a hew and interesting instrument, the elharmoniunt, by which music may
be transmitted as by telephone, and at once. An interesting mechanism, the taxi-
meter, is now extensively used cabs and automobiles in European cities. By it are automatically reg-
istered the distance travelled, amount It fare to be paid, and time lost in In Belgium, unmarried men over 25 have one vote, married men and
widowers with families have two votes, and priests and certain other
persons have three votes. Sever penalties are imposed on those who
fail to vote. The Iritish Navy is largely manned are mere youngsters. Here are the
official figures: Aged 15 to 25,63 ,rate sallors (or 57.69 per cent.) :
ageed 25 to $35,36,601$ (or 32.7 per
(ent.): aged 35 to $45,9.350$ (or 8.45 King Fdward speaks in several anguages with facility, and on or-
asions when foreign delegates to eived by His Maiesty, it is often he case that individual delegates will ind themselves chatting freely in their own language with their dis-
tinguished host. His Majesty reads reat nation and has followed close " all the recent scientific develop-cixty-one vears old, the King Tol lied himself diligently to the study Hindustani, a language that fell


The Boys

## Flease, somebody stole our clothes.

on General William Booth, head of the ocean, and would be missed honor was this year conierred upon a But how we clung to the tissues of of Connaught, the American Ambas- that at least a shred of them might land, the Lord Chief Justice, the a wrench to childish pride it was to ford Chancellor, Lord Chas. Beres- gest and strongest man ! However have changed mightily in the nation- if not the biggest, he was still the al estimate of Booth since he began smartest and the best farmer. But
his campaign years ago in that con- no, this, too, was disputed one day tinent of sin and misery, the East End $\begin{aligned} & \text { and reference to father and mother } \\ & \text { only confirmed the druad boding that }\end{aligned}$
of London.
other men in the neighborhood were
as clever as, and had made even more money than he. However, one vantage yet ramained. There migh't be others as Pig and smart, but "there
certainly was none as good. "Pa" didn't smoke or get drunk or swearat ledst not when we were aroundnever got " mad "" without just
cause, and was, in fact, a shining example to other parents and citizens. This last fond hope was cherished. No one could shake our
faith in Pa 's virtue, and Pa himself faith in Pa 's virtue, and Pa himsel
never shattered the ideal. mained enshrined in our heart till age and reason convinced us that there must be minking orld her boys in the world thinking the same thing of probably, not without equal oause. It was the same with Mother. There never could be a woman equal
to her. Whose house-unless, perhaps, it might be Grandma's-could compare with hers for comfort, cleanness and completeness of furnishing ? And who could touch Mother at cook-
ing ? Other boys' mothers made some things all right, but for allround cooking and baking none could compare with Mother. No one critiHer meals were always done just right, not scorched nor yet " raw, while she knew how to stir up a than the meat. In fact, for bettere where you could sit down and enjoy a full, satisfying meal, without, gagging a custaras that woulan't go wondering who did the milking, and whether the bread was mixed with clean hands or not-" our "' home only place in the neighborhood where everything could be depended on being absolutely all righ
What a big place the world used to was not over five years old, when I took me to market, some fourteen miles away. For a long time we chatted about the buildings, the Leicester sheep, the strange kind of chickens with the jaunty topknots the high bridge, the great gulley, at ders increasing all along the won Who would have dreamt that there were so many new and, strange things to be seen in one day's drive?
Nearly three hours we travelled at last the city burst into view, at the foot of a mountainous hill. Interest gave way to astonishment,
which tinally found expression in the which tinally found expression in the
since oft-repeated inquiry, " Say, Pa since oft-repeated inquiry, "Say, Pa,
is the world as big as this the other
How a boy's mind develops ! Well that it does, for he has much to
l"arn. Think ol the important facts oi life he has to study and grasp. and how little help he ofter receives from those who should teach him'the What a strange and foolish reserve exists between the parents and children concerning these things, even anguish and ingury resuit and what My earliest recollection carries me what Io hours of cogitation over great epochs of life : birth, marriage and death. I was assured that
had been born. 1 didn't know just
when, but my impression was that
this interesting event occurad what when, but my impression was that
this interesting event occurred when
I was about two years old T was about .two years old. Mar-
riage would come next in the logical
order of events, and this. they said,
olthough onite an this. although quite a crisis, would be
rather a pleasant one. Here 1 am rather a pleasant one. Here 1 am
reminded of my orothers orinion
that there was never a girl like our that there was never a girl like our
town sister.
For years aiter he entered the knickerbocker period he
stoutly maintained that he never could marry any yirl but Kate. He
has changed his mind, I am pleased to see, and Kate is now another
man's wife: so there are tour hapy man's wile ; so there are four happy
people, instead of two. Somehow, seople, instead or later, we all find a cenow,
show our or
whose sister we like better than our whose sister we like better than our
own. Death, to me, was a grim own. Death, to me, was a grim
prospect of the future, but so far
distant and so overshadowed by the distant and so overshadowed by the
earlier crisis-marriage that I found
it possible to keep from it possible to keep from worrying
much about it. It is fid for chind-
hood to take in the thoukts of death hood to take in the thought of death.
Schooldays are a large part of the Canadian child's years, and school,
like after-liie, is pretty much what like after-life, is pretty much what
we make it.
To some it is cheerful and pleasant; to others a dread and
a terror. 1 was of the latter class. The strange, rough boys, the strict
teacher, the grim, formal school with teacher; the grim, formal school, with
its door at one end, blackboard at the other, three windows on each
side, and four rows of desks; the long silence; the turbulent recess; the
cold dinner; the long absence from home; the sympathentic morning good-
bye, which brought a lump to my bye, which brought a lump to my
throat that remained suspiciously near there all day-ihese impressions
come back vividly as is write "Stan," my younger brother, and started together. The first day we
hung it out till first recess hung it out till irst recess, and came
toding home, tears giving way to
smiles as we turned into the long lane from the road. What a fine
place home was! How big and
 looked as it loomed up through the
spruce ! It seemed as though it spruce! It seemed as though it
could resist an attack of soldiers. we had! Never had they seemed so tender beforer. They didn't tell
us we would have to try it againnot that day. Next week they ar-
ranged that our favorite cousin
Cleordie seasoned veteran of some two years school experiene, should
go with us. Thus reinforced, we sallied forth with new courage to do
battle for learning and progress. This time we held out till noon. After
many heartbreakings and many stomach pains, which seemed always to
come on at half-past eight in the morning, we did get fairly launched on our scholastic career, and grad
ually, as the older boys dropped out, as intellectual prowess. and could as intellectual prowess, and could
hold our own in a tight with the
other boys. or take a licking irom the teacher without crying, schol
became a more tolerable place But
I'll never forget the day I decided to Th never forget the day 1 decided to
"not take arithmetic any longer."
Arithmetic. somehow didnt Arithmetic, somehow, didn't agree
withment mental digestion
liess adding and subtracting was end
lisless adding and subtracting was dis-
couraging ${ }^{\text {One }}$ day .tan. heat
me in doing the
questions,", and forthwith decided my forte, was not
arithmetic. $\begin{aligned} & \text { Peter James. of the } \\ & \text { fourth class, had dropped geography, }\end{aligned}$ Nellie Christie had been or excused
from reading on account of her stammering, and Mary Rittenhouse was
no longer taking history. Why
 come. "Part Second, arithmetit,"
called the teacher. Al. went forward
A. willie. what's the matter ?"' Bravely but weakly ${ }^{\text {I }}$ re
plied, as the gaze turned my way plied, as the gaze turned my way,
and a flush mounted tomy forhmad.
al 1 m not going to take arithmetic any more." "Why?"" Becauss I need it, 1 in going to be a farmer,'
Nonsense come up here with the class." Reluctantly 1 went, resolu-
tion melting like snow in August, and then I learnecd a great life-lesson, to
wit that the .....


## The Quiet Hour.

A GREAT RESPONSIBILITY.
$\qquad$ pray one for another, that you may be
healed. The effectual fervent prayer of a righteous man availeth much. Elias was
a man subject to like passions as we are, and he prayed earnestly that it might not rain: and it rained not on the earth by the space of three years and six
months. And he prayed again, and the wonth. And he prayed again, and the
heaven gave rain, and the earth brought forth her fruit.-St. James v.: 16,18 .


If thou hast wanderings in the wilder-
ness
And find'st not Sinai, 'tis thy soul is
poor !
There towers the Mountain of the Voice
Which whoso seeks shall find, but he
who bends, Intent on manna still and mortal ends,
Sees it not, neither hears its thundered

Did you ever face the awful thought of
the tremendous power for good that God
has put into the hands of each of His children? I call it an "awful"
thought, because we have been warned thought, because we have been warned
over and over again that we shall be
called to account for leaving undone the called to account for leaving undone the
things we ought to have done; that we shall be punished if we allow our talents
to rust in idleness; punished if we pass our neighbor by, in neglectful unkindness, When we see that he needs our help;
punished if he starves at our side, while punished if he starves at our side, while
our hands are full of bread. And we have at our disposal the mightiest fo for helping the world that can possibly
be imagined. We all. Want to help the be imagined. We all. Want to help the
world, and very often lament that we are cut of by want of strength, time, money
or opportunity from plunging into the optte aruaity from plunging into than and misery. And, al
bate prayer lie idle, or exercise it so languid complishes scarcely anything. Look at our text! Elijah was only
man like other men-only a country who had from childhood been drinking in
the Spirit of God among the the Spirit of God among the solitary
hills of Gilead. Like John the Baptist, hills of Gilead. Like John the Baptist,
who followed in his steps, he was no who followed in his steps, he was not
clothed in soft raiment, not versed in
the fashionale the fashionable etiquette of kings' courts.
When he saw the nation turning its When he saw the nation turning its back
upon God, led by a wicked queen and a weak king, he did not use gentle words
of pleading, but tried to wake the slumbering consciences of his countrymen by
the strongest means at his command. He the strongest means at his command. He
prayed a terrible prayer, prayed a long
drought, which would inevitably plunge the country into the miseries of pamine
and he was perfectly fearless He suddenly appears upon the scene with
his daring defiance of Ahab-a defiance which could not fail to provoke the (iod said unto Ahab. As the Loiri) stand, there shall not be dew nor rain
these years, but according to my word." He must have felt that the disease was
a desperate one when he resorted to a desperate one when he resorted to
such a desperate remedy. We may not
feel tempted to exert power in that fashion, and surely he would in that
dared to do it without a direct call have God; but St. James puts him before us
as an example to be followed-an ex-
ample of the prevailing force of earnest prayer for the healing of the disease of
sin. Though Elijah, by his praver Ahat, who brought trouble not he, but
Thie storv is als alt a tale of magic, that we hardly so feel as as
if it applied to ourselves at all. Here is a prophet who by his prayer, can
stup, the rain supply for more than three
years, and then brime the rain in to his earnest appeal to God. He can
ttand by the altur of sacrifice, and look
up in calm certainty that his prayer for
fire from thaven to tire from heaven to consume the victim
will lee answered. Wh. cannot
 him to wowk miracthes for us an h. know


 trion Hin, ido was simil obey

 honor and glory, and a burning desira bring Israel back to its lost faithfulnes God did not pick out a man ha hazard, and use him as an instrument for
reaching
Mis people. The man cho was indeed subject to like passions we are, but he was full of zeal for $G$ on and had prayed long and earnestly fo
the evil around him to be cured. had shaken his head sadly over the idolating of his neighbors, and decided hardly have could not help it. God could not help
used
him
against sin that io help in the battle great army which follows One riding
upon a white horse-One whose eyes as a flame of fire, and whose vesture dipped in blood-then you muat be tremendously in earnest, as Elijah was the mighty wer content to plod through the wilderness of for yourself. if God wants to send you messages by wands, wants to send His standing in His presence always listen ing for the still, small Voice, which is unheard by anyone who allows himself to
be absorbed in the cares and pleasure of this outward, visible life. It was perfectly natural for Elijah to
say: ${ }^{\text {As }}$ the LORD God of Israel liveth, before whom I stand." He could not see God, any more than we can, but
he had lived in such constant communion with Him that His Presence was not a misty possibility, but the one greas
Reality of his life. This is within Reality of his life. This is within our
reach too. We can form the habit ou letting the remembrance of God be or we can form the habit of realizing His Presence in every quiet moment. When
the hands are busy kneading the bread. eart can rise in glad communhion with an unseen Friend. Take the potatoes to be peeled, or the pan of peas to be
shelled out under a shady tree in the
yard, and youl will yard, and you will find it much easier to lift up the heart to God than if you sit
down in the hot kitchen. It is far bet You all lead busy lives, I know, and it is not easy to find time for long prayers.
Has God ever asked Has God ever asked us for long
prayers? If you care about your brothers' needs, if you want about your
healed, if you really believe to bo prayer can bring down showers of blessing on a thirsty, parched world, you about prayer are not true, then life is either powerless to help us, or untrue to His promise. But we know that He
is true, and mighty to save; and. as St. fidence that we have in Him. that conask anything according to His will, He
heareth us: And if we know that Ho hear us, whatsoever we ask, we know
that we have the petitions that we de-
sirall sin a sin which is not unto denth he them that sin not unto death." him life for eager, persiste of Filijah is an example of gifts (iod wants to give us gifts for
ourselves and for others. He wants to
soften hard her faith. to arouse joyous eager love; wut
He cannot force those us . We must earnestly desire them, and
prove our desire by determinet We must pray as Elijah prayed for the barreng fields. Think how he " "cast himp betwern his knees," in lowliest supplica fidence in God's what unshaken con-






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GOSSIP

 | dales. will |
| :---: |
| oftice add |
| answered. |

In his speech at the Royal
incoln, His Majesty the King
the prevailing sentiment when he
that the splendid entries of the show vear proved to him that the year proved to him that the pren
eminence of Great Britan in bredire
stock of the highest class. although often


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after that anster once monthy as long had trouble two years, and would like
as necessary. Keep him as quiet as pos- to
sible and well bedded, so he will not slip
in the stall.
GARGET.

Ans.-Without secing an anfrected twig
one cumnot be certain of the name of die cannot the certain of the name of the
$\qquad$
$\qquad$
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$\qquad$
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$\qquad$
$\qquad$ been found very useful in controling
some of the mildews, and we should suysome of the mildews, and we should sug-
cest spraving the hedge theronger gest spraying the hedge thoroughly with
it as soon as thero is the first It as soon as thero is the irst indica-
tion ot one disase. Other applications
should the fiven if the disease continues to spread, or if the firssease con- is
washed orr. The formula for Bordeaux mixture is is ithe proportion of 4 ibs
sulphate of wopper, ibt ibs. fresh lime. 10
gallons of water. II issolve the bluestone. gallons of water. Ilissolve the bluestone,
and slake the ilime. separately. Add
about half the amount of water to both about half the amount of water to both
the strong copper sulphat solution ond
the diluted-lime mixture into the diluted the dilted-lime mixture into the diluted
copper-sulphate solution, or, better still,
Forur topether simultaneously. If more
water is neched sol Horticulturist, Experimental Farm.
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bulging walls of silo


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and beo them.
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$\left[\begin{array}{l}? \\ 0-4\end{array}\right.$
J. BRYDONE,



Scotch Shorthorns
Scotch Shorthorns

Maple Leaf Shorthorns
Chanoilor timool Fow heourd

questions and answers

## Veterinary

aCUTE INDIGESTION
Horse became sick about 7 p. m., act-
ing like a horse with colic, throwing his head around to his side, Iying down, roll-
ing on his back, and kicking, gave him pain-killing liniment, soda,
gat ginger, turpentine, sweet nitre, cayenne pepper, and inflammation medicine every
20 minutes, but he died about 11.30 . Ho bad a milder attack three weeks before Ans.-He suffered and died from acute ondigestion. It is probable he could have
been saved if attended to seen saved if attended to by a veteri-
harian in the early stages. loubtless have administered eserine or the constituents of " pain-killing liniIment " or " inflanmation medicine," ${ }^{1}$
cannot say whether their administration every 20 minutes did much harm or not; but, of course, liniments are intended
solely for oexternal application, and are harmful if given internally. When veteri-
nary attention cannot be procured, the best dose in such cases is two ounces oil
of turpentine.
ounce fluld oxtract belladonna, and 1 pint raw linsed o
Repeat in $1 \$$ hours, and every two hou
arterwards give ${ }^{2}$,
drate in solution.

```
Miscellaneous.
```

LYMPHATIC GLANDS IN BEEF
OR PORK FAT. Kindly tell if meat, beef or pork, is fit
or use when there are small dark lumps or use when there are small dark lumps
in the
meat? What i it the cuas o The
meat is not inspected in this village.
 There would be no reasonphate gevernats.
meat
ghands showing the presence of these
gla other than fit for food.
 Does it require any more pickets to
hivid a fence over a hill than on the
heval any
ever
 that it would require between. In argued pore pickets to
huild, put admitted it would take mor scanting, The pickets
pendicular. Ans. - If the pickets are en uprigh and
spaced unitromly, the rise in the ground
ine in one case will make no differenco


## SPRAYING FOR BLIGHT.


you use for spraying?
W. H.

 applied together with distinct advantage.
The lime in the mixture will cause the
poison to adhere better than if poison to adhere better than if applied
separately. 4. To apply, buy a spray pump. It
you have any fruit trees to speak of, or
a potato acreage of half an acre o a potato acreage of half an acre o
more, the pump will be a very profitabl

REGISTERING FRENCH-CANA DIAN HORSES.

1. Kindly inform me whether there it French-Canadian Studbook in Canada?
2. If there is a studbook is


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Fellows' ${ }^{\text {E }}$ Eeming's Essence
njured. GET IT NOW and you have the remedy that CUREs youl lameness in horses.
it, send 50 c . to
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Bhonthome, Clydesdales and Shropshimes.


 olaromont $\mathbf{P D}^{2}$. O. and station
Telephone oonneotion.

Fox sentix
8SCOTCH SHORTHORI BULLS

 DAVID MILINE, Ethel, Ont Shorthorns and Leicesters
 oows with calf at foot. Leicenters of all agee
Address:
W. A. Douglas Oaledonla stazion, Tuscarora P. O WILLOWBANK SHORTHORN HERD
 liged 61 reara.

 sit the imesi.ioualas,
oaiodonla P.O. and Sta. GHORTHORNS AND BERKSHIREE 7
$+2 y$

Record for French-Canadian horses. Up
to the present, there are on record the
pedigreees of about 375 horses. The cer
tificate issued is the Canadian Nationa ificate issued is the Canadian Nation
ertificate. bearing the seal of the Depar
enent of Arriculture 2. Tommy 2 nd is on record
foundation stock under the number 1013
His pedigree was recorded aumer Glen Gow Shorthorns
 Shorthomes, Cotswolds - and Berkshlres:

Young Shorthorn Bulle !
 orkshire boar pigs 3 months old Alion Leiceater
JAS. SNELL, Clinton, Ont.
eep.
Arlington Shorthorns and Leicesters.



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## Gloper Len Stock Farm

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 A. EDWARD MEYER, Box 378, Guelph, Ont





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and A pairio of Reldings 4 y years old. JAS. MoARTHUR, Gobles, Ont. Maple Grove Shorthorns Pa
Whan

 MAPLE GROVE SHORTHORNS

 SHORTHORNE, YORKSHIRES and S.:-

 Scotch Shorthorns $\begin{gathered}\mathrm{Clarets} \\ \text { Stamfords }\end{gathered}$

 Shorthorns Clyder Horrd hooneded, bhy thesuates « Berkshires
 MAPLE HILE
Maple hill stoak farm - Hiem-



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Brooklln, Ont,


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ander one year old.
and prices are right. Catal hague.
John Clancy, Catal
Manager.
H. CARGILL \& 8ON,

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Grove HIII Holsteln Hend
 Imperlal Holstoins Bull oalvos for anale.
w. M. simmows, Now Durham P. O., One. Greenwood Holsroins \& Yorkshires



The GAREY Idea: ONE Roof is Enough D) Charles Lexow, of Mitchell, ought to be enough for any building? Carey Idea, In 20 years or so, doubtless he will pay the sort of tribute to
Carey's Roofing that H or


## CAREY'S $\begin{gathered}\text { fexpars } \\ \text { chent } \\ \text { ROOFING }\end{gathered}$

 Chtig Ges or motal roors, with but knifo and hammer as tools



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a woman for yout she will goad
a man till he can't rerrain from say-
ing the ouly comforting thing he
tons and Wilsons," she had mawex trust alil to me and had been told to Never before had I risen knows to say, and then she is in-
sulterd, and leaves the room, and, likely as not, goes off, and wonders
whether any nan is really ${ }^{\text {a }}$ good whether any man is reanly good
enough for any woman, and all that Now, I am a man, and to such the
ways of woman are past all under standing. I had watched my Sallie,
among our intimates sity among our intimates, scintillating
and witty, and, best of all, appre-
 on the few occasions that we had in
some unaccountable way broken into "that set," I had seen her sitting,
expectant, eager to add a sparkler of thought to the frothy talk-I will not
call it conversation.
Her erforts
 ary, and not a princely one, and she
attired in last yeris attired in last year's gowns, were
social mistakes-mistakes, it is true,
to be overloged If, in some lapse, Sallie wedged in
the remark she had patiently and pathetically nursed, no patiently and heard it.
She could say nothing owhet She could say nothing which could
possioly interest that set.,
But
every caze was intent wide, so not to miss any of the toads
 dough-faced lady whose husband had
made millions in speculation.
choicest choicest epigrams were encrusted with
such verbiage that the shade of Daniel Webster would have hidden his
diminished head, could he have heard And yet my Sallie tingled with joy the company of ". that set.", Well, the morning of the eventful
day ad awned bright and fair,", just as it does in novels. There was an
excitement mour happy home which
did not make for prace and content ment.
Oired girl (nothing makes Sal-
lie so proveked as for me to call our
I. maid a hired girl) got imperti-
nent, and threatened to quit, and
nothing short of a raise in
would hold hor a wages Sallit fidgeted around, dusting the
furniture aiter the maid hasd finished, running to the refrigerator to make
sure that there was plenty of ice,
and doing sundry other thecessy stunts. $A$ noon the caterer came with his
 Yes, sis," to himg, No, sir, and
Just as sallie. finally left the
kitchen, with flushed cheeks and a Victorious air, the telephone rang.
Sallie, being summoned was lighty
informed by Mrs. Worth wat that she was awfully sorry, but that she sha
Mr. Worthing were just about to take
the train for the city the train for the city. They had
had a telegram, she condescended
insther tor arther to explain, from the Apple-
tons, invitity them to join them, and
to with them that
 her, 1 must explain that my courage,
in the face of her weakness, was du oo the fact that, if I had to to have Luke Sexton and Jimerred son eating it up than those creatures By evening Sopianned.
and begun to take notice braced up her new gown, and presided with course dinner, faultlessly served by It was evident that waters. and Wilsons were simply dumbfound-
ed at the elegance of the "Say, Charley, this is what I call a function, sure enough," Louise whis-
pered to me, with a glance over pered to me, with a glance over her
shoulder to make sure that one of the factotums didn't hear her. Never in that little old house was
there so pompous and dignified an occasion. It began with Sallie, and the gay gabble which ordinarily above vailed at that board, with that
crowd" (not "sot ", We spoke in hushed tones of high
ideals with the oysters. With the soup we toyed with Carlyle's "French
Revolution." The fish, by a se quence of ideas, suggested the evolu-
tion of man. With the game cussed Lucullus and his gorgeous airy. persiflage, which, somehow us to wines, which followed the Even th the proper manner, laid down by the
fellows who know, instead ing, only deepened the solemnity.
We ate, we drate We ate, we drank, but we did not
make merry. It was too much ask with all those American Beauty waiters staring is in the back.
Of course, the women withdrew and left us men to our wine and walnuts. wads not willing to alter her original
plans in any particular, for fear that cook fellow would think it strange.
A gloom like the pall of death fell men left us. I rehearsed to myself
that formula used in dismissing that formula used in disinissing serv-
ants Henry, you may withdraw. when 1 cleared my throat and opened
my mouth to speak, all I said was, "Mr. Sexton, have another cigar."
Mr. Sexton : My old pal, Luke
Well. well. crobe of snobhishness gets into a felthe presence of a durnb waiter cal about the witty after-dinner stories men wiluuraw, so he essayed one,
It was so pathetic that I surrepti-
tiously wiped my eyes with my silk But as all things, good and bad,
come to an end in time, so did that
dinner. After a respectable and what
I deemed usual lapse of time, I rose a veil over the thirty minutes fol-
lowing the telephone conversation.
And let no man, unless he be a mar-
ried man similarly situated, fancy and sald, dignifiedly, " Gentlemen,
shall we rejoin the ladies?"
After our guests had departed, with proper decorum, and the hired, werv-
ants had been paid, I looked at salAnd, upon my word, even though
there was nothing left to jingle in
my pockets but my My ", commented Mame over the there was nothing left to jingle in
mockets but my night key and
was I whon It talked to her-for it my cockinese pocket-piece, I felt pity
$\qquad$
$\qquad$
$\qquad$
$\qquad$
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