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VoL. XLIV
LONDON, ONTARIO, JULY 15, 1909.

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Please Mention Farmer's Advocate

# The Farmer's Hodvocate 

Persevere and Succeed. and Home Mragazine
EDITORIAL

## Men lea

 wise student who learns from from his own.Lean kine mean thin pocketbooks extra feed that tells. Siee that the cons paunches are well padied out twice a day with nutritions teed.
Volunterer enlistment has been tried, and failed. in Britain, we are told. TTis is about the most hopeful statement issued from the Tress
conference. It indicates. Tee us, hope. that the coniference. It indicates, ,let us hope, that the
Enorishman is becoming too civilized to particiEnglishman is becoming too civilized to partici pate, except under
the pagan game of
We never hoe a thistle from a hill oi corn We so through at the last cultivation with a pair
of leather gloves and pull them out, remarked a of leather gloves and pull them out, remarked a
thrifty $0 x$ oxtord (county farmer the other day. Thistles cut of with the hoo grow up again. Those pulled out will not show abow the surface till A Now Brunswick estiscriber very interesting letter, sulbmitt ing a ne var's dairy verr interesting Ietter, submitting a ver's dairy-
herd reocrd, in reeerring to the fact that the few silos built in their ristrict have all gone out of Use, puts the question, is it a case of the su
vival of the fitest, or a warp in the gumption our farmers?
The great ensilage crop is corn, and corn is not
 Brunswick, a few dairymen have. until recently at all events, used silos with considerable sat is-
faction, and we are not fully convinced but that Iaction, and we are not fully convinced but that
manyy others might do so by growing early varimany others might do so by Erowing early vari-
eties on well manaured, well cult ivated, fall plowewed sod, not being in any hury to get it into the silo, Sod. not being in any hurry to get it into the silo,
huut taking chance of a frost. rather than ensiling luy taking chance of a frost. rather than ensiling
in iumature condition $\begin{gathered}\text { And it } \\ \text { corn cannot be }\end{gathered}$ bo suceesstully grown in certain districts, the question is open to earnest consideration whether it Would not pay to ensile clover, or alfala, either of
Which, if cut at the rikht stage and packed into light silo, will cure into an appetitinars. succulent
Much, but not too much, is bering said in tavo of tile-draining the fields. 1 Let us not for-
get that the roads are equally , benefited by the subsoil watercourses which tille afford. Wherever properly put in on wet roads, tile have efrected an
marvelious improvement.
Scolters may lay
 and declare that you can't irrain puddled clay.
but their opinions are mased on a misconcention In the frst place. it is not the pudidect clay we try to drain, but the earth heneath the pudaled
surrace.
Socondly; should bee filled nearly, to the wurlice with yravel. stome, or other loose foreign material. in the
 drainuze. The Ontario Counts, of Niidllusesex is laying a considerable mileage of tile drains on
its roads. and rarious one itts rouds, and various other municityalities have tried it to a greater or less extent. Thle drainage is the frst and most important step to take in
the turrher development of our public highwass the turther development of our public highways.
Gravellinc can wait
Drain the foundation. $\underset{\substack{\text { Gravelling can wait. Drain the foundation: } \\ \text { Metal surfacing has }}}{\text { Do }}$ Metal surfacing has to be replaced every little
while.
|rainage is permanent, and its benefts while. ITrainage is permanent, and its benefts

Agricultural Training of Teachers. ege is to train young men who intend to farm and also those others who wish to fit themselves o serve the industry in some expert or profession A very important secondary func fion is the training of rural-school teachers in elementary agriculture and horticulture, that they nay relate the farm boys' and girls' education to their environment, and educate them towards, no from the land. A class of one hundred and thirty-two Normal-trained teachers have just comhericultural Colloge ninety wo havine oceive instruction culture the remainder in industrial arts the former section of the clacs, tutored by Prof the former, section of the class, tutored by liof.
S. B. McCready, B. A who look forward to teaching in rural schools. $\Lambda$ similar line of work is being carried on at the Nova Scotia Agricultural College, in Truro, N. S., where a rural-
science school is being held this month, especially or teachers, though others may attend. Last year there was a small but interested class us that formal application had been received from one hundred and twenty-four before the end of June. In Quebec, the Macdonald College has a special department for the training of rural-school children. And so the effort is to take the in fluence and inspiration of the agricultural college

The Silo and the Corn Crib.
many farms, when the silo comes in, the orn crib goes out. Drilling in seed at the rate of half a bushel per acre, takes the place of hill
planting in check rows. With early corn, grown n hills or drills, rigidly thinned, and propery cultivated, well-eared stalks will enrich the silo content. Ideal silage is supposed to combine the high nutritive value with succulence. But we are not so sure that we can anlora, without losing more than variety in diet, to discard roots and orn in the ear. Once a man gets the silo habit, he does seem to grow averse to dry-curing fodder, and husking corn, and caring for both. The labor problem worries him, and aice the grain so the surplus corn remaining after the silo is filled is slashed down, shocked up, and all fed to he cattle unhusked. But then, after all. for feeding hogs, horses, cattle and poultry, what better adjunct have we than a long, airy crib, packed with well-hardened ears of corn? It has made savings-bank deposits grow, and helped to pay for countless farms. Canadian farmers who Chrow a few ears of corn in the feed box, with oats, generally have sleek-looking horses, that stand a heavy day's work without flinching. And there is reason for it. The Ohio Experiment Station made a comparative study of the value of oats and corn for work horses, and the conclusions of the investigation, given elsewhere, are worth while, and suggest tre question, corn crib in sile districts what (1) What has been their experience in feeding corn to horses 2) What is to be said about rood silage as (2) What is to be said about good silage as a
horse food? (3) Is it not practicable to utilize he corn crib and the silo on the same torm? utilize arm
Fducation for efficiency, as well as for culture,

Cheap Alcohol Not Yet.
The plan of using denatured alcohol from waste products, as a cheap fuel to furnish, power on the farm-one of the objects of the United states law permitting its manufacture-is pronounced a failure by the chemists of the American bepartment of Agriculture after experiments cov ering almost a year. Prof. Harris L. Sawyer Uhief of the Bureau of Chemistry, says it is impossible, because of the fuel cost to operate the till, to say nothing about the original cost of he plant, which is approximately $\$ 10,000$ for a still to do good work.

Mountaineers make moonshine whiskey in small stills, and realize a good profit, until they get caught," says the Chief of the Bureau; ". but, wile moonshine whiskey, which costs 50 cents gallon to mane ture, is cheap for whigey, alco hol at 50 centa a gallon would never compete with gasoline. So far, in a good-sized still, it has been impossible to produce alcohol at as low a price as gasoline is produced.
The Department of Agriculture secured an appropriation of $\$ 10,000$ to demonstrate the proc ess of manufacture. $\Lambda$ first-class still, of small capacity, was placed in the Government exhibit at the National Corn Exposition, held in ()maha last December. It proved a good attraction, and was seen by some hundred thousand farmers, but with the raw material almost free, and little or no fuel outlay; the lowest cost at which the alcohol could be produced was about 17 cents a galon, and a gallon of alcohol will produce scarce-
y more power than a gallon of kerosene. The ravelling still is now in Washington. A similar the attempt to make alcohol Missius in Texas, while another is working lust.
-AS a commercial product, denatured alcohol may some day compete with gasoline, but, as for making from cornstalks, straw, waste apples and other refuse cheap fuel with which to thresh, shell corn, grind feed, churn, and light his farm, that day is not in sight. It is now stated in the American press that, if farmers ever get the oenefit of denatured alcohol, it will be by organizing co-operative companies in regions where coal
Thus secured at low cost. gether unexpectedly, we must say. The Farm er's Advocate," while hopeful of benefit from tax iree alcohol, never shared the sanguine anticipations of its contemporaries. It is easy to bull ap false hopes, and swept suddenly away. what legislators and editors should seek to forth with a view to getting at the facts regarding the possibilities of alcohol for fuel, we requested Professor Harcourt, while in Germany last summer, to inquire into the manufacture of denatured alcohol there. In 'The Farmer's Advocate " of December 17th, page 1954, he published the result of his observations n Germany, where he found the retail price of the article 28 to 30 cents a gallon (ninety-five pen cent. volume). His conclusions then were that, if alcohol were to be profitably manufactured by our farmers, it would have to by co-operative effort, as a high-proof article could be made only a corcterion Developments indicate equiring expert atloniond
the Farmer's Advocate and Home Magazine.
pualished werkly by
the william WELD CompANy (Linited)
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hoznts for the $\begin{gathered}\text { Farmer's advocat } \\ \text { Winitrg, Man }\end{gathered}$
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Many of our readers will remember that ar
agitation in favor of cutting grain carly wets car ried on in the agricultural journals of a quarter never to let grain get really ripe, and many good reasons were put forward in support of
view. There was less loss from shelling, pointed out that the straw was more valumble for feed, which is especially true in the case of oats One of the chief reasons advanced was that, with wheat in particular, the sample was brighter and clearer, and, therefore, would sell for more money. The agitation was possibly carried to an extreme,
however, when it was argued that wheat cut in however, when it was argued that wheat cut in sample, hut that the yield "us just as good as if left to become more mature. Many of our best
farmers were so much influenced by the arguments advanced as to change their practice somewhat and early cutting has been in favor with then
ever, since. I'robably the lowst time at which to cut wheat for market purproses is when the
 Muy in regard to the whue of wheat for sew that it is betcer if lofit until fulls rime. simul tum strater sirld of both errin and strous, ann
from the part where the crop is best, might be cut, and when full after the rest of the field is and threshed specially for seed, as before suggested. This may seem to be more trouble than it is worth, but a very slight increase in yield, and than sufficient to pay well for the extra time and abor involved. it is, after all, more a question
of taking thought, than of taking time.

## HORSES

Comparison of Corn and Oats for Work Horses.

Problems connected with the feeding horses are doubtless of as wide interest problems in live-stock manacement, Practically all farmers, whatever particular branch of farming they may be engaged in, have occasion to feed work horses. Besides farmers, commercial firms or various classes keep horses in large numbers lerest in methods of feeding that will lessen the ing their efficiency
Whether feeds are high or low in price, it is
well worth while for feeders well worth while for feeders to exercise great care
in the selection of rations, so as to use the ones that are most efficient and economical. With the present excedingly high market prices for all
kinds of grain feeds, it is especially important kinds of grain feeds, it is especially important
that a judicious selection of feeds be made, for much waste miay result if attention is not given
to this phase of stable management. Of all grain feeds used in this country, none is
in higher repute with horsemen than oots. Many
horsemen helipe oats to be the thes horsemen believe oats to be the best single grain
feed for horses, whether kipt for draft or for road
purposes. It has been stated practical horsemen and others, that horses fed upon oats display more life keres in condition and
endure work, especially during hot weather, hottrer than do horses which receive a grain ration made
up largely or exclusively of corn. And this be-
lief in the efficiency of oats as a grain feed for lief in the efficiency of oats as a grain feed for
hoxses is so strong with some horsemen that they are willing to pay exorbitant prices for oats
rather than feed corn. and study of the chemical composition of corn the exceedingly high favor in which oats are held,
or for corn being considered so lotally unfit for
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$\qquad$ curel in refard to this important subjectan hes this work calls for a long-time experiment-not
one of a few days or weels' duration, but one One of a few days or weehs' duration, but one
that will cont inuer for a number of years.
'The work was the results of the "xperiment unt to the present
time are so striking that it has heen thought hest standing that further work is being done ulong-
to mature geldings at general farm work, ear corn was practically as efficient, pound for pound, as On the basis of the results of this experimint and statistical records of farm values of graine corn has, since 1866, been cheaper than oats as a grain feed for work horses.
The drop in weight of the corn-fed horses, incident with the beginning of the use of shelled
corn, indicates that ear corn is to be preferred above shelled corn for work horses.
Furm animals should be fed according to their needs. Their needs depend, of course, upon the
product that they yield. Work horses are kept product that they yield. Work horses are kept
for applying energ., and should be supplied with feeds that will furnish the required energy at the
least possible cost, all things considered. least possible cost, all things considered. There is a wide difference in the efficiency of
horses in utilizing feed. This is well illustrated horses in utilizing feed. This is well illustrated
by the record of the horse. Tom, used in this experiment. There is an "individuality", in work
horses, as well as in other farm animals. Horses horses, as well as in other farm animals. Horses
that are notably hard to keep in good condition that are notably hard to keep in good condiontained at less cost. The data presented do not prove that, for use With pure timothy hay, ear corn is as efficient,
pound for pound, as oats. Neither is any exi, dence at hand to indicate that a grain ration made up exclusively of corn is suitable for brood mares with foal or in milk, or for young, growing
horses. When the weights of the horses for the vear previous to the experiment are compared with the weights secured during the experiment, it is seen that the exclusive use of either corn or oats has
not had any bad effect upon the horses. There is no positive proof, however, that a mixed ration would not he more efficient than one made up exclusively of corn or of oats. This experiment
does show, nevertheless, that corn is a valuabl ieed for work horses and should be given a larme Hace in their rations, whenever market conditions It is obvious that feeds for work horses should he palatable, efficient, and economical. is far
is palatableness is concerned, corn seems, in the experience of this station. to have a slight ad vantage over outs, wlthough this uill depend to a considerable extent upon the individual appetite.
The results obtained thus far in the experiment renorted in this bulletin, indicate that eorn is an - flticient feed for work horses. The bulk of an amount of ear corn equal in feeding value to the
usual amount of oats is small-so small that casual observation might lead one to believe that coo little corn was being used. As regards econoats while this experiment indicates that ear corn and oats are worth approximately the same
per pound for feediny under the conditions stated What the Farm is For.
$\qquad$


Holker Mars.

Winnipeg Horse Show The lifth annual show under. the auspices of
the Winnipeg Horse Show Association, held on June 24th, 25 th and 26 th, was a decided success. Winnipeg has a reputation for horses that is con-

tinental, and His Equine Majes!s was displayed with all the splendor which numbers and high quality, qlittering trappings, costly 'sehicles, and | a magnificent amphitheatre, ablaze with, roy al |
| :--- |
| purple and gold, could lend. This is the first | purple and gold, could lend. This is the dirst

year the show has had at building of its own. It has been held out of doors since becoming too large to be accommodated wy building in the
cits. From the popularity of the function with city. From the popularity of the function with
horse-lovers and society, the show will not be long outgrowing the quarters just provided for it. It has, in fact, occupied them fully already,
with no accommodation to with no accommodation to spare, either ior pa-
trous or judging classes. The officiating judges were: Captain Kennan, Dublin, Ireland; 'olonel I'ratt, Little Rock, Arkansas : Senator Beith, Bowmanville, Ont.:
lnspector (hurch, Regina, Saskatchewan, and MR Inspector Church, Regina, Saskatchewan, and R.
II. Taber, Condie, Saskatchewan-a committee of three working on cacl class. Most of the ani-
mals shown were owned within the city, though a fool display was made from outside points, as Winnipeg horse funciers have been purchas
ing freely during the past few months, in anticipation of this event, so the judges found clausses awaiting their decision, some of which could not he duplicated for numbers and high-quality in-
dividuals thy any show in the Dominion in all dividuals hy any show in the Dominio
sevent -seven classes faced the judge.

Colt Raising.
In the issue of "'The Farmer's Advocate" for ne cost of raising a colt untit he is three years article referred to, are inclined to belititle the the
cost of raising a colt, ind to magnif, that of raising a steer. There is no doubt that, by letting a colt have a good deal of liberty and exercise. it
will thrive and grow well on roughage that does hot count ior much. receiving hut a small amount foltsensive grain and hay, "ho has not seen
colt in winter running around a strawstack, and olts in winter running around a strawstack, and
getimg scarcely anything given to them, except a
little has, and, though thin and shaggs, growing wirly will, and certainls active shaggs, growing not calculated to decolop heary, strong draft-
 menten tor itll: horses, in books on the subject.
is sommerning that horsu-raisers scarcely feel like
acceptin. hreshom for instance, instead of feeding of forl srain in the chat? thus making profe of the
 ractions so that the hoard-hill is kepot well under

But grain is steers. Taking it all together, while the raisers
needed, and, though of horses are doubtless makine money needed, and, though of horses are doubtless making money at the busi-
not fed by weight ness, they are not doing it hy selling their stock not fed by weight
and
marked
$u$ p against the animal, it should not be
reckoned at less than a fair price.
When it is all count. ed up, it amounts practical $\begin{aligned} & \text { a tidy } \\ & \text { farmer }\end{aligned}$ practical farmer, siderable experience in raising young stock, estimates the cost as follows
Value of mare Nork lost during colt during $\$ 7$ feed for $\underset{\text { winter, }}{\text { colt }}$ during ${ }_{2}{ }_{\text {first }}^{\text {pounds }}$ oats and bran per day, at 1 cent per pound, of or s i months, $\$ 3.60$; hay
pounds per day at $\$ 10$ per ton.
$\$ 6.30 ;$ carrots, 1 ,ushels, altogether, win n er, $\$ 10.9$ ).
Boiling the oats oc cassionally, a a adding a little flax
seed, furnished variety, and is most
wholesome,
without adding withthing to cost. Sec
ond summer,, pas ure only, at, $\$ 1$ per need of grain while
animal is on grass: indeed, the animal is better ant bran per day, $\$ 6.30$; hay, 9 pounds, $\$ 8.10$ carrots, 10 bushels, $\$ 1$.; total for second winter, $\$ 15.40$. Third summer, charging $\$ 1.25$ per month or pasture, $\$ 7.50$. Third winter, allow of grain and bran 5 pounds daily, worth $\$ 9$, hay, 11 or
12 pounds, worth, say, $\$ 10$; carrots, 20 bushels. $\$ 2$; total, $\$ 21$. With the ration allowed the third winter, the colt should be in good shape for selling in the spring. According to the estimate,
the colt, at three years of age, will have cost $\$ 69.80$, not counting in service fee. These estimates will by most be reckoned moderate. Oats, for instance, are now much higher than a cent a
pound, which was taken as the average of recent pound, which was taken as the average of recent
years. Pasture, also, is cheap at the prices alIowed, though perhaps not cheaper than it may be hired in many districts. Yet, as "Chroni le ", semarks, if a steer cannot be raised for less than
sevent, dollars, money is being lost by cattleraisers continually. Another item which is not reckoned in expense account, but which ought to
be included in it, is cost of attendance. Whate included in it, is cost of attendance. Whator value may be placed upon that, it would
$\qquad$

## LIVE STOCK.

The King's Interest in Agriculture Farmers and stockmen the world over, whether mire His Majesty King Edward for the deep and and lately to a loyal address from the Royal Agriculcural College, at Ciren ester, he said: "From my youth I have taken the warmest nterest in agriculture. It is a source of liveli-
hood and support to hundreds of thousands of my hood and support to hundreds of thousands of my
people, and upon it the prosperity of the country leople, and upon it the prosperity of the country ndustries, scientific research has effected great imrovements. The simple methods which the farmers of bygone times found profitable and ef icient, have now given place to systems of culti-
ation which were then unknown. The success of the farmer of to-day is dependent not merely upon his industry and economical management, but on the possession and application of special knowltained by instruction and scientific investigation, and I therefore cordially welcome the enlargement of the scope of the work of the Royal Agricultural
College. Inder your new organization you will have greater opportunity for the efficient performance of your importaint duties, and for the coninuance and extension of your invaluable work.
You may be sure of my warmest good wishes for the increased success of your undertaking."

Skim Milk for Pigs.
An account is given in the Journal of the pig-feeding carried out in two seasons, which afford fresh evidence of the value of separated milk for pigs. In 1907, three lots of five pigs were
fed in three different ways, and in 1908 three lots of six. Lot 1 in each season had one part by weight of mixed meal, made of maize and barley in about equal parts, and a small quantity of pollard, with four parts of potatoes and six of ing of two parts by weight of meal and six of separated milk. Lot 3 had two parts of meal and four of potatoes. All three lots had as much food as the pigs would eat. The pigs in Lot 1
were finished in 90 as days, those in the second lot in 88 days, and those in the third in $151 \frac{1}{\text { d days. }}$ The increase in live weight was almost equal, but the average daily gains varied from 1.88 pounds
for Lot 1 , and 1.95 pounds for Lot 2 , to 1.09 pounds for Lot 3. The meal cost 6s. 7d. per cwt , the potatoes given, as raised from the land, were valued at $£ 2$ per ton; and 1d. per gallon


Royalty at the Royal.
cwt. of dead weight, charging the costs of the
animals and food, without attendance, were $£ 1$ 19s. for Lot 1, \&1 18 s . 3d. for Lot 2, and $£ 2$
10 s . 11d. for Lot 3. The results show that four parts, by weight, of potatoes were practically
equivalent in feeding value to one part of meal, equivalent in feeding value to one part of meal,
while four parts of potatoes were not nearly as while four parts of potatoes were not
valuable as six parts of separated milk

## Hogging Down Corn

Turning hogs into the corn field, to pull down the stalks and fatten on the ears, is a method practiced not infrequently in the corn-bet stalks being little thought of. We understand it is occasionally resorted to in Essex County, but were
surprised, the other day, to run across a farmer in Middlesex who had tried it, with satisfactory results. Charles Fitzgerald, of East Middlesex, having more corn last year than was needed to fll his silo, fattened his hogs on the balance. His
silo, by the way, is a $14 \times 30$-foot stave strucsilo, by the way, is a corn fairly well. He grows early-maturing varieties of hill corn to fill it, having, last year,
Longfellow, Compton's Early, and White Cap Longfellow, Compton's Early, and White Cap
Dent. This year, about a lushel and a half of
King philip King Philip was planted. About 15 acres of corn was put into the silo last fall, leaving about
our acres for the hogs. This was a well-eared crop, which would probably have husked 100
bushels or more to the acre was to go through and pull off the method adopted them on the ground, and hauling the stalks of to eed the cows. Part of the corn, however was seven or twenty-eight shoats, averasn. Twenty hundred pounds apiece, were turned in, and left
there till marketed there till marketed, at about 200 pounds weight A little peas and chop was also fed. Accoun1s
were not kept, but, from a calculation suggested by his interviewer, Mr. Fitzgerald figured roughly that a probable 2,700 or 2,800 pounds of live
weight increase, figured at the selling price of weight, increase, figured at the selling price of
6 cents per pound, realized in the neighborhoord of $\$ 160$ from the four acres of corn. Agains this should be set the chop and peas fed, but, on
the other hand, the stalks drawn off should b the other hand, the stalks drawn off should be
credited, leaving $\$ 40$ an acre as an estimate of the value of the crop, marketed as pork. The
labor is a small item, and would be more than balanced by the manure. "The Farmer's Advo cate would like to hear from others who have
tried this method, keeping accurate account o
the proceeds and profit

A Factory Patron's Thrifty Calves How to raise good calves, is one of the mos difficult problems the cheese-factory patron ha
to solve. The pot-bellied runts commonlv pro duced by a diet of grass and sour whey, with such contributory favors as hot sun and flies, are almost enough to discourage a stockman from pa
tronizing a cheese factory, and drive him the length of adding buttermaking to the duties o teurized and the tanks kept clean, so that each day's whey is pumped into the patrons' cans
sweet, and containing its due residuum of fut, it makes fairly good feed for calses that have got
a good start ou milk. Sour, putrid whey, as too often delivered, should not be fed to young calves
at all. The accompanying illustration shows a bunch
of seven thrifty youngsters, of mixed breeding, in a paddock on the farm of Septimus Bourne
Middlesex County. They all came at the end April or the first of May, and were photographen
June 24th. Their feed, in addition to grass, con sisted of a pail of whole milk diluted with water
and strengthencd with twelve handfuls of oil-cake The temptation to send every pround of milk
to the factory should be resisted. Whole milk may be expensive calf food, if the youngsters ar
given all they want, hut if calves are to be
raised at all, a little milk fed to them will realiz better returns than if sent to the factory. means the difference between thrift and stunting,
which is usually the difference between profit and loss.

Aloes to Prevent Calf-sucking.
 chanical devices had been tried, without avail.
Joseph Poole, of Middlesex Co., Ont., tells us he
has cured this habit by painting the teats nfter has cured this habit by painting the eats after
milking with a solution of aloes. The teats milking with a solution of aloes. The teat
should be washed again befor, milhing and th should be washed again before milhing. and the
solution afterwards reapplicd. A very few treat solution afterwards re-applied. A very few trat-
ments, he says, will cause the calf to give up the

## THE FARM

Flax-pulling.
This is the season for flax-pulling. When the stems grow golden, and their seed-balls rustle, the pullers go into the fields, and pull, bind and
shock, the season lasting three or four weeks. shock, the season lasting three or four weeks,
Flax-pulling is done by hand, and, in cases of hard, clayey soil, is very difficult work. Sun
baked clay is almost as difficult as concrete to baked clay is almost as difficult as concrete to
pull anything from, and the poor puller has to pull anything from, and the poor puller has

manufacturing $h i s$ own crop into
ketable tow ketable tow: where the dustry is carried on, it is in conjunction ith mills and flaxwho buy the prodng farmers by the ton, or rent land and cultiv
When the farmer ows his own flax ometimes pulls it himself, though usually - the pulling being too difficult er-he lets out the
work at from $\$ 5$ to or an acre to a man and women, who
make flax-pulling
their summer Where millmen grow the "Astuff
on leased land, they have gangs, consist
course, where the grain is grown in new ground or any light loam, the task of pulling is not By reason of the weight of the fresh yield, flax
heaves are usually made small sheaves are usually made small. Wisps of flax itself are used to bind them, and the bands, after
threshing, are thrown on the ground with the rest threshing, are thrown on the ground with the rest
of the sheaf, in spreading. he goes along, some experts in the work being able to pull a whole sheaf at a stretch-that is, time shocking, however, is frequently left for the close of the day's work, this feature of flaxpulling being considered the lightest form of work
connected with it. In fact, where the pulling is done hy gangs, as will be explained later, an old of 25 or 30 puller


It must not be supposed that flax is every Where garnered jus it is cut just as any grain is cul, and, of
Sourse, the process is as simple, except for the
con toughness of the flax-stem, aty any work the hinder
has to do. But in that case it is grown solels ical resultion, and should furnish more econom he sued is a second comsideration and the fillere is Lutherstand that in one portion of New York
 It pulling. The binder leaves from four to six some experimental work max be done along this ne hes of stubble, and, as each phant, after cur- line hy Prof. Day. who has charge of the silos calum of the four or six inches-saved thy pulling- ant of the feeding of the farm stock,

Roadmaking in New Bpunswick An instructive address on the subject of road-
making was given by S. L. Peters, of Queen's $_{\text {Co. N. B., before the New Brunswick Farmers' }}^{\text {Co. }}$ and Dairymen's Association, last March
The speaker drew attention, in the first place to the importance of the subject of road construction and maintenance, as one absolutely
necessary to the progress and development of the country, and the contentment of its citizens. Without good transportation facilities, neither people, is capable of full development and enjoyIn the early days, transportation was con-
fined to the rivers, lakes and streams, but soon fined to the rivers, lakes and streams, but soon
roads became an absolute necessity. The road mileage for the Province, as given in the official
yearbook of 1907, is 13,056 . " How to maintain this large mileage of highways, is the important problem that now con-
fronts both the Government and the people." The speaker took occasion to disapprove the aboing the interest of farmers in the roads adjoining their farms. He claimed that between 1876
and 1896 , when the condition of the himhways and 1896, when the condition of the highways was
specially good, coincided with the period when statute labor prevailed, and hoped for a return
to that system. He believed that this change would be hailed with pleasure by four-fift hs of the people in rural districts.
Successful highway roads can only be obtained through a system of thorough drainage. A road as level as a platform may be a good piece of
road during the dry summer season, or it may be a good piece of road under certain special
conditions; but, to be maintained in pood condition, it requires a crown. But you may take the best piece of road you please, giving it the necessary slope from the center to either ditch;
if the ditches are not kept clear and deep enough if the ditches are not kept clear and deep enough
to carry off the water, you are out of it during the wet season of the year." An earth road should be 21 feet wide, with a crown of 18 to
20 inches. If a district can afford to put a 20 inches. If a district can afford to put a few
inches of broken stone, covered with gravel on inches of hroken wial be needed for years.
For swampy places, instead of the old custom of using logs, the speaker recommended spruce much superior. " Put a foot in depth of brush, nicely laid, with the buts of the bushes towards
the outside, which will prevent the earthy material the outside, which will prevent the earthy material
from slipping in the ditches, just as it will help to heep the bank of a brook or stream from
washing, and you will have solved the question of roadmaking in swamp. or clay sections. When you get near the center of the road, then turn
the butts inward, making a smooth, firm floor, the butts inward, making a smooth, firm floor,
nicels shaped, and with the desired crown. On top of this place six or cight inches of the best earth you cancet, don't go too far to get it.
('heap construction, with the best results, is Cheap construction, with the best results, is
what we are aiming at At A
the conditions surrounding your methords to without undue expense." "A little hrook crosses the road where you
have time and time again placed an ordinary
hridec but hridge but the frosts of winter throw out your
work in the springtime, and you have to go again and make repairs. Fourtecn vears ago I was in charge of the roads in our district, and I said t
the men, here we are arain. we always ha something to do at this spot. It was just such would fix it have described. I determined we old hridpe, making an excavation six feet wide, hy putting a small spruce tree, about 23 feet
long, with the limbs trimmed off on every side hut one. We limbs trimmed off on every side
that tree in the excavation
across the road. as the hase of one side of across the road. as the hase of one side of our
culvert, and on that we put bushes all the way
from four in cix feet in lenoth matine the butt come even with the first tree, and, after having four inches of earth on tof of them: then we got
another simall tree. trimmed in the same and pat the butce, of one to the tip of the other, o keep the material level. More small bushes fired of hrush and earth was used, until the de the culwit was handled in the same manner, and
the top stcurely covered. That bridge had been A serinus nuisance to us for many vears. but it
has necer since received one shovelful of earth or
any now. This country cannot aford to have all hroadth and what we want is something that will ancurw what we want is something that Comeretion with our rural-road want to make in coment concrete be used for order.
cordinary culverts, but
fit a road is buipt.

shall be the best road there. Mr. Peters referred provement is noticeable, but good commissioners extolling the merits of the split-log drag, and long stretches of highway may be seen, treated in was glad to know that many districts in New a manner fitly characterized as asinine. With
Brunswick were using it. Others present gave a the commutation of statute labor in whole or in Brunswick were using it. Others present gave a
good word for this simple, efficient implement. In conclusion, Mr. Peters advised all to work like good citizens, giving best service in every line, and they would have the satisfaction of ha
ing helped both themselves and the country. ge helped both themselves and the country


Misuse of the Grader.
Shallow gutters scooped out just inside the sod shoul-
ders, thus retaining instead of draining off the

Misuse of the Grader.
It sometimes seems as though there wer
more distinct and different brands of folly ex hibited in roadmaking than in any other phase ural enterprise. The statute-labor system ai保, but, as remarked by a New Brunswick farm
 the center of the road, forming a cut up under the ombined influence
of water and traffic making mud and ruts as shown. By disking and rolling
the surface, then the surface, then
dragging occasionl-
ly, it could have heen it could have immediate traffic,
and brought more quickly into a firm compact condition It will not be so
had, however, if this road is henceforth kept well dragged; otherwise sod-bound ondition, soon ren dering another grad
ing necessary It all goes t
prove that relianc on the road-grader is an inefficient and objectionable means of $\begin{aligned} & \text { road - mainte- } \\ & \text { nance. } \\ & \text { ing }\end{aligned}{ }^{\text {One }}$ should $\begin{gathered}\text { grad- } \\ \text { b e }\end{gathered}$ ing should be
enough for a life-
time.
Freshly-graded Road that Needs Dragging
and address before the New Brunswick Farm rs' and Dairymen's Association, it had at leas est in the practical problems of road management The commutation system, which has succeeded it in many municipalities, lacks this in a measure and, unfortunately, lacks, also, in too many cases
the expected compensating advantace of greater he expected compensating advantage of greate Where the supervision of the roads is placed in
grass-grown, the
shape the road up,
left a lot of loose
part, came the expensive road-grader, and, or in
this is a very this is a very good and serviceable implement in
its place, its misuse has been so common and do its place, its misuse has been so common and deplorable that we sometimes think our roads
would be in better condition to-day if a grader Would be in better condition to-day if a grader
had never been brought into the country.
One of the most general mistakes consists in depending upon it for maintenance, instead of employing or this purpose the cheap, economical and effec-
tive leveller, or, better still, the split-log drag Warth roads which receive no smoothing but an annual grading, can never be really good, except at times when they would be fairly passable, any-
But the misuse of the grader is not confined to its employment for wrong purposes. It is
often used in such a way as to work more harm than good. The accompanying illustrations, made from photographs taken just after a rain by
a member of our staff, on the third concession of a member of our staff, on the third concession of
Nissouri, Middlesex Co., Ont,. indicate one or two common errors, which we have observed elsewhere, as well. The road in question is rather
wide, and grown over with grass from the gutter wide, and grown over with grass from the gutter
to the edge of the narrow wheel-track. In order to put such a road in shape, the sod shoulder should be shaved off clean, so as to permit unimpeded flow of water to the ditches. Here and
there this was attempted, as one of the pictures shows, but for long stretches the grader had apparently been run along with the edge just inside the sod shoulder, miaking a miniature 2 -inch gutter there, to hold the water after every rain! The
result is that the water submerges half the driveway in places, finally soaking down into the surface to soften it, and cause it to cut up easily, while in winter the frost will congeal and ex-
pand it, the moisture disrupting the bond, and pand it, the moisture disrupting the bond, and
converting the roadbed next spring into a better place to plant oats than to drive. This kind of work may look all right to an untutored eye just after it is done, but it is the wrong way to make
roads. If the appropriation does not thorough job, better leave it alone; better still to take a split-log drag and go over it a few times in spring and early summer, keeping it
smooth until it can be put into shape properly. inooth until it can be put into shape properly, The second illustration shows the results of de-
lay, and the kind of work necessarily done by the lay, and the kind of work necessarily done by the
frader. In this case, it was not easy to do differently, but the point is that roads should, by requent dragging, be kept in a smooth, grass-free condition that will not require such operations as
here shown. Having become grass-grown the here shown. Having become grass-grown, the grader was put to work
the split-log drag, he hands of a competent commissioner an in
with plow and disk harrow, will, grade a flat road without the road machine at all, and do it better,
though, if hired done by the township, the ex though, if hired done by the township, the expense might be a little greater. The road ma-
chine is all right enough for putting an earth chine is all right enough for putting an earth away, and use the split-log drag.

## 




The Double Plow.
Fditor The Farmer's Advocate": Farmer's Advocate" is taking in urging farmer to adopt wide, fast-working machinery. With labor so much larger a bank account. Having had some experience with double plows, I will give for what it is worth. The first double plow 1 purchased was an Imperial Gang-a walking
plow. This plow had a twelve-inch cut on each plow, and was not adjustable to a narrower cut. It did very well for skimming, in the spring, land that had been fall-plowed; but when I cam
to do deep fall-plowing with it to do deep fall-plowing with it, I found it, a
miserable failure. It was too heavy for three horses, and, moreover, it would not stand up to its work, but would kick out to the left when it
struck a hard spot. I think this fault of "slewing "" or running crooked is common to mos signed this plow to the scrap-iron corner
This spring I purchased a double riding plow and timothy on a summer-fallow. I must say I never had an easier job in my life. The
rolling coulters cut a clean furrow edge, chopping. off the clover and grass like a cuttingpull down the tall stuff, so that it would cover. The plow
turned everything upside down. and kept an even depth. Four
inches was the average depth. inches was the average depth.
I used four good horses, and found that they had sufficient load for a hot day. The off
 at all stiff, and three horses would be badl- over plement where it will be carried on the tongue. it the implemen


THE FARMER'S ADVOCATE given an advantage; in fact, I gave the off team utility, both as a time and labor saver, and an advantage of inches on the long " quad- means of doing a first-class, even job.
rupletree." Much of the dislike to double plows Although a good many farmers fail to see arises from the fact that agents almost invaria- yet, I believe that the two-furrow plow is one
bly represent them as being easily: handled by the greatest mechanical boons ever conferred upo bly represent them as being easi, as the double the agriculturist. As I stated above. I have used
three horses. This is a mistake, is riding plow, in almost any land, is a four-horse one a half dozen seasons in succession, and would
implement. My land is a friable clay loam, not not return to the old single-furrow methou for loaded.
I give below two styles of four-horse eveners, twelve-inch furrows at a time, and hitching it to
with measurements. No. is best suited to a a four-horse team. I can plow four acres of then with measurements. No. 1 is hest suited to a a four-horse team, I can plow four ares of the
riding plow, while No. 2 is suitable for any im- heaviest land in ten hour, providing the field is they can be purchased for from 8.5 to 85.50 . In your article, you remarked that, in using In style No. 1. one of the doubletrees is placed four horses, one would have to take the plowed below, the other above, the long evener. This around on large makes of plows. I find it is not so of the Cock-
prevents , swing, of the eveners. Two washers are placed between the doubletrees and shut, as the plow is furnished with a wide draw
the long evener in No. 1, so that the double device, which allows me to shift the four-horse trees may work freely. The clevises are of flat wener to the left to such an extent that 1 am en-
iron.
Into the center iron. Into the center hole of the long evener a ahled to put the of horse in the furrow, with the
piece of piping, large enough to ndmit a clevis cemaining three on the land.
bolt, is driven. This provents the hole in the some men, on big farms, use the three-wheeled evener friven. This frovents the hole in the on big farms, use the three-wheelen evener from wearing. No 2 sty of evener ex riding plow, hut on a hundred-acre farm, whet
plains itself, and may the made of any length to there are a good many fences, I would prefer th
tongue, and consequently requires more time and ensions of Ao. 1.-Iong evener. . Toet trouble to turn at the end ; besides; I have and inches; doubletrees, $2_{\text {feet }}$ i inches, whittle trouble to turn at the end besides: 1 have notrees, 2 feet 4 inches. The hooks or clips can be plowed ground, because two horses ure placed on used No. 1 style on my double riding plow, with each side of the conge coulters, we like to have entire satisfaction. I use an evener similar to both kinds on hand, because the different kinds mare more suitable to different conditions of surdouble ridingion, I would say, "roll face. The rolling coulter works best where green ing coulters have considerable stone in my manure or the the ground, and cannot dracr, at land, but the rolling coulters seem to get around they are rast , whe farmyard manure is put them all right, and you are never annoved by under, we prefer the straight coulter, because, if having a stone stuck hetween the coulter and the the pround is not quite hard, the rolling coulter Middlesex Co.. Ont. is easily clogged, and the manure will drag until

Twentieth-century Plowing.


1st number of ". The Farmer's Advocate, , in rega Ting the value of the modern two furrow "plow综 (

Harvesting Alfalfa for Seed
Sting should this stage a majorits of the pods are turned a whlopedon color, and the seeds are fully deinto windrows aiter, two hours, if the weather is drying, and in two or three hours more put into wher may justify. eang, and stache heating or there is danger or fitality of the seed. It is not uncommon, if exonly an hour, or it half hour, then stack, and let stand for autumn or later threshing. If allowed
$\qquad$ proeess which makes the threshimg easier, while leas of the seed is left in the straw than would
be if if had not. heen stack-cured. In Western 1o. il it had not heen stack-cured. In Western
Kansat many seed-raisers cut their seed crop with
a sollithinder. put the shavas in shocks the same day, and thresh in abhout ten days, or put it in-
to it sack to await a convenient threshing time.
 sedi in this way than if they cat with the ordi-
and mower.
dronpers ant with a mower having at
droment. which leaves the alfalfa in

## THE FARMER'S ADVOCATE

## Mustard Killed by Spraying

 the eflicacy of copper-sulphate spray to destro method seems to be practiced by very few farm ers. There is reason to believe this is due, no 10 any fault in the idea, but to the conservatism and inertia that delays the adoption of so many other advantageous and profitable practices-the spraying of fruit trees, for example. This may be inferred from the fact that here and there mustard-spraying has been tried, with decided success, and at comparatively sman expense per acre for mat that the success of the spraying be explained that the success of the spraying having a rough, pubescent leaf, retains sufficient oi a copper-sulphate solution to kill it, whereas the leaves of the grain in which the mustard grows have mostly smooth, linear leaves, which do not hold enough of the solution used to do them any serious harm. Indeed, it, is believedby some to have a fungicidal value which really benefits the grain after the slight scorching has passed off.
Eight or ten years ago, s.... Mason, of Oxhrd County, Ont, near Norwich, began spraying The mustard has been particularly bad on one piece of land that was purchased, though the 10 pounds hluestone to 10 gallons of water, which is sufticient to cover an acre. A heing a special mustard-spraying attachment, with horizontal pipe 14 feet long, having jets 18
nches apart. With this outfit, 15 acres a day can be sprayed. Usually, each field is spraye
iust once, and preferably when in full bloom. A an earlier stage of growth the plants are perhaps more tender, but if the sprasing is done
thrn, others will come on. necessitating a second operation. Last year, part was sprayed when the weed was coming into hloom, and this was
not so effectual as spraying in full bloom. As a rule, only the spring grain has to be gone over
but last year the wheat, also, was sprayed. ". Ioes the spraying kill practically all the
 the weed out of your land ". "Well, it is thin-
ner than it used to be. Last year I was quite encouraged. I thought we were getting rid of
it. but this year there is a good deal of it again. It seems to he worst where sheaves have been
carried and dropped from the bundle carrier. One needs to spray every year to make headway. One
cear's seeding, ten years' weeding. I would spray, though, even if I never had any hope of
getting rid of it. for the sake of the benefit to bach year's crop It woes the grain good. It that seems to grow all the faster for spraying,
and. of course, the crop has the extra space,
moisture and plant fool that the mustard would moisture and plant food that the mustard would
otherwise take. "Bluestone can be lought in quantity as low
as $\$ 1.80$ a ciwt.. though I have paid eight or
nine cents a pound at stores, and the store

Three Benefits of Alfalfa.


 Whatra, when corn, demands certain conditions





THE DAIRY.

## Summer Feeding of Daipy Cows

## Prof. C. H. Eckles, of the Missouri State Agri

 the annual meating of the Kansas state Boar of Agriculture, on feeding the dairy cow in summer. As reported in the proceedings, he said: There is some difference of opinion on thisquestion, from the standpoint of economy question, from the standpoint of economy. Ther milk if fed grain while on pasture, and if a large yield is of more importance than economy of production, grain certainly should be fed. The cow that gives a small average quantity of milk will
produce but very little more if fed grain while on pasture. However, with the heavy-producing cow the case is quite different, and it is necessary that she be fed grain, or she will not continue on the
high level of production for a very long time. high level of production for a very long time.
The necessity for feeding grain to the high-proThe necessity for feeding grain that she cannot secure a sufficient amount of nutrients from the grass alone, and must have some concentrated
ieed, in the form of grain, in order to continue to produce large quantities of milk. Fxperiments made by the Cornell Experiment
Station, covering four vears, showed that, whil Station, covering four years, showed that, while
in increase of milk was secured froon grain feeding, it was not economical to produce it in
this way. They secured only about an additional this way. They secured only about an additiona these experiments the pastures produced an abundance of nutritious grasses. They observed, howgave hetter results after the grazing period was
over than those that did not receive grain. This is also a matter of common observation, and
should be taken into account in considering the advisability of feeding grain. The point is that
the cows fed grain stored a considerable quantity Of surplus nutrients in the body, which was after
wards available for production of milk. Whero wards a vailable for production of milk. Where a
small amount of grain is fed, corn is as well udapted as anything else where it is cheaper than Other feeds, since, on account of the comparatively
narrow nutritive ratio of the grass, the corn does narrow nutritive ratio of the grass, the corn does
not unbalance the ration. However, in case ieeding large quantities of grain, as would be necessary one-half to two pounds of fat per day, or more, other feed, containing more protein, should
be used in part, such as bran, gluten meal, oats,

Where the farmer can grow alfulfa and corn, there is no reason for allowing the cows to suffien
for feed during the period of short pasture. Green alfalfa is the best summer soiling crop that can be combination with green corn. These two fit to-
gether especially well. Under most conditions, the most difficult season of the year to get green tures is in the earlier part of the summer, before corn is mature. Alfalfa is at its best during this season, and serves the purpose remarkably well.
In the latter, part of the suminer, when corn is more mature, there is nothing better than green
corn. No plant now known to us equals corn in its adaptability to the soiling system. Corn digestible nutrients jer acre, at less cost, than
any other crop suited to soiling. Where alfalfa is not grown, the use of the corn silage for, sum-
wer feeding is hound to be practiced extensively in the future. We are coming to depend more
and more upon silage as supplementary to pas-
and for this purpose allows the corn to be matured to
the proper stage before being harvested, giving a thaximum vield of nutrients per acre, and is more economical of labor, as compared with hauling haming corn for the silo is all done at once. In
manning silos, it is well to build one designed esenough so that it can be fuct from in the summer, "ithout danger of too much silage bring spoiled.
Next to orn and alfalfa should probably be
maced sorshum, as a soiling crof The vield per acre of green sorghum is very large, and it serves
 mating a practice of dairy in to werl grain the and Mening, and grain morning and even-
ing. Then, when thev go out well filled up, they don't have to stand and fight flies, and eat. I halieve it is economy, I average about
ceventy-four kallons of miik a day from thirty round. I feed about four of oil mearts of grain at a meal. In the summer I give then three quarts of hran and one of oil meal a day.
Professor Eckles. -1 find we get more milk where

or all ordinary milker, it doesn't pay to ieed her
any grain when she is on grass. She will give
as much milk on pasture as she will on grain. is much milk on pasture as she will on grain.
But, wa you go up the scale, it pays to feed her
grain grain. No cow can possibly do har best on grass
alone. She can't possibly eat and digest enough rass to do her best. The better the cow, the more you need grain. The cow that only gives a
litule milk won't give you much return if you do leed her wor while they are on grass. by feeding? Professor Eckles.-That question has been dis cussed a great deal in recent years, and, while brought out recently, the fact remains good that for all practical purposes you cannot increase the amount of fat in a very considerable way. Under certain conditions it can be increased a little 'bit of course, the quantity of milk responds very quickly and very strongly to the amount of feed, but the quality, very little. Professor Eckles.-We don't feed oil meal in ery large quantities. Perhaps about two pounds day. With clover and timothy hay and grain,
would make it two pounds of grain, four pounds Ii. B. Ward.-I see that the things supplying the elements for milk, and for the production of milk, are cottonseed meal and alfalfa. Now, as

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ceed meal, grain and alfalfa?
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    l meal, grain and alfalfa
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Creditable New Brunswick Herd Record.

Some two or three years ago you invited results of cow-testing from farmers, and, as far as Province.
We have just finished a fairly successful year with a small herd, and enclose you particulars. We have no up-to-date farm or equipment. Our
cows roam over a square mile of woods and old fields for pasturage in summer, and go to the brook in all weathers for water in winter. We have no system of ventilation, but must depend rins to smell "close." As to system followed in feeding, we have in ance in which to keep our cows, and guide our feeding thereby. If a cow in apparent health be
gins to shrink in flesh on average feed, we increase accordingly, until an equilibrium is reached, always having a care to do so carefully and judiciously, having an eye out for mammitis and pounds of prain feed per day, and that only to certain individuals for a short time after freshening. Our regular feed this spring, after freshen-
ing. was six pounds per day two individuals Nos. 1 and pounds per day, two individuals, other hand, No. 2, by an accident, early in March, lost the use of a quarter, went down in Hropped her accordingly, increased in flesh, and we forcing them, we allow them to prompt us in amont of concentrates fed. We feed largely per ton, varied with an occasional bag of middings, oil cake, buckwhea feed is bran. We strive to make our roughage as succulent as possible, satisfaction never succeeded to our or the cows in ; corn the When peas and oats are no more. They dote on urnips in the winter, hut never get enough.
We have no silo. What few were built in this vicinity have, as far as my knowledge goes, all
gone out of use. Is it a case of the survival of the fittest, or a warp in the gumption of our farmers? If we ever build one, it will be to bridge oove the gap between June grass and peas and

As to the herd of which I enclose record and account, Nos. 1, 2 and 7 are pure-hred Jerseys ; Mrade Jerseys Nos. 1 and 7 are calves of are 2 : No. 3 is the mother of No. 4 . If No. ${ }^{2}$ she would have been up among the leaders, if not head of all. The figures, as they stand, show
No. 4 to be superior to No. 7 in milking ability Which is not so. She freshened early. and had $?$ only had twenty days Let your dual-purpose hitor note where the Jersess stand in this herd 2. 2 min


Cankerworm Injurious in Un sprayed Orchards


Good Pointers on Hatching and Rearing, from a Farmer's

Daughter
am weary of reading the many different ways sone of your correspondents said. "No chackens. entirely adopt another one's plan and make a method" (which may mean that you must get
$\qquad$
$\qquad$ agricultural college. I think the course is far
too short. The student gets a surfeit of the too short. The student gets a surfeit of the
business. You actually do not know anything certain on any point at conclusion of the course ducking, and catrue wa to gasping for breath uave, as it were, after recovering your breath,
take time to think it all out before concluding at is and what is not worth adopting. MPDE WAY The best for hatching Have hatched and reared chickens for a great
twan vears , ty the natural way o find the
shuple life, the proper way by which to secure hralthatad vitality. The old hen, in my opinion,
surpasses. the incubator as a hatcher, especially so
whal "hen onty in smat number of chickenseciare so The artee year-old hens, not pullets, Old hens of than pullets.
The dry-ereding method seecns to me to be the
mont natural one by which to raise the chicks. 1


 Wh CaUSE of white plarkhea.
 Wher hings.
 The intwrou of the incubator-trays and all-
shoult tre scrubbed with soap and water, and left
in the sum for some litte time to dry, and be
proving theorifs. Than ar heen proving each year some theory
and three-vear-old hen eggs, hatched $85 \%$-good,
strong chicks.
thaising chickens this year by hens, and
then placising the chicks in brooder houses without
doors, but with wire runs attached to then.
gave to three hens the work of tooking after 120
chickens. With such treatment, and the food as I have already described, I have not lost a chick and they are now three wee
This is certainly good work

## Freedoy fron licf

Vermin I have not only kept free from, but I
tave exterminated, by the cautious use of black have externinated, by the cautious use of black
oil or rude petroleum. I put a little on the back of the hens at night while on the roost. I I
do this every few weeks. and so keep the hens free do this every few weeks, and so keep the hens fre
from vermin with comparative little trouble. also spray the house at times with coal oil. Beiore giving the hens the chicks to hover, I smear therm very !ightly with the black oil, under thei
wings and flumt id do this every few days very wings and
lightly. It is not much trouble, and perfectly safe. I oil the heads of the chicks around the car with vaseline before giving them to the hens, Thave spent the night to the "wee sma hours,
many times, powdering the chicks, which I now do
in a minute by the mother:

## Profit from Egg Production.

In looking up our list of poultry-producers, we find two instances of success from egg-production The first is on a small dairy farm, where 1 The hens are under the entire charge of the farm wife and two daughters. hat they have brought their cggs to us contin vear 1908 as an example, that their: delivery was com 5 to 15 dozen per week. They were paid or these eggs from 17 to 35 cents were paic and received in cash $\$ 114.40$ for eggs alone dur ng the year. An accurate account of cost where a flock of from 25 to 50 hens are kept on
$\qquad$
This leaves a profit of $\$ 64.40$ from eggs alone and above keeping the home in eggs, and o rear 50 or 60 chichens each year, that they may have 25 pullets to replace all but yearling This leaves them with the revenue from the disposal of the 25 hens, and surplus cockerels. paying, they say that it is rar the fost profitable paying, they say that it is far the most profitable
branch on their farm, and that if they could only get their cows, hogs, etc to pay them the same percentage of profit, they would be more than The second is rather a peculiar case, where the farmer and his wife attribute their success entire very successiul until the last two years, when the made the change and established the breed whic they at present have, which is a straight crosswas done by breeding a pure-bred Red cock on for layers. This gave them such wonderful re sults that they will not keep any others, only each year of breeding a pure Red cock on pure Brown Leghorn females to get their laying stock.
1 must say that they have a very fine flock of hens, beautiful in appearance and plumage
lay ing a considerably larker-sized oi the breeds does as a pure-bred. We have been able to grade all the eggs from this flock No. 1
weighing, on an average, several ounces more thar
1f $\frac{1}{2}$ pounds per dozen, which is seldom the case This is a large dairy farm, and they also
thing their eggs in to us weekly, the net proceeds rom this flock, in eggs, beeng considerable in ad-
vance of the first named, per hen. They also state that the poultry branch is the speaks well for the poultry, as they have an upNow. I do not say that a cross from these breeds is the only and best-laying hen to be probure breeds and crosses of pure breeds that wil intelligently good results, but these people have hem results, and, rightly or wrongly, give all

THE FARM BULLETIIN
Ditching Machine Making Good.
fion of the work extended inspec ditcher that is operating in the Niagara district, ad thought possibly a report thereon might be The machine completes the ditch full depth and true to grade in passing once over the course,
leaving the ditch bottom ready for the tile. The short time these machines will be in use in many parts of the Province. There is work enough t knop quite a number of these machines busy. County that could be contracted for to-morrow by anyone proposing to get a machine. There is 10 miles of work ready for contract in Went wirth. There are numerous other counties, e.g draining is being done, and where several miles of work could be secured in advance, sufficient to keep a machine busy for the first month, and that has more work ahead of it now than it had when it started operations in the spring, with more coming all the time, and many who have had off. For two days I watched it working in hard,
stony clay, and it was surprising to see the stones in diameter, and in places close enough a foo in diameter, and in places close enough to form an almost continuous row beside the ditch, but of
course it did not dig as fast in such land as in and free from stones. than of ditching by hand in most parts of the Province. Besides, there are not enough men to dig by hand one-quarter of the drains needed in intario. All these circumstances combined should hine, and the consequent revolutionizing of ditch ing operations throughout the Province. I am more firmly impressed with the value of the ma-
chine than ever.

## Central Canada Fair

There are many things about this year's Cen 18th, which will make it particularly attractiv n live-stock men and farmers. Over $\$ 13,000$ in cash prizes is offered in the cattle, sheep wine, horse and poultry departments, and, fered are worth at least $\$ 1,000$ extra. All of the ive-stock buildings are being gone over, and many ncidental improvements effected, so that the con enience of exhibitors will be fully catered to. In
very department which interests the farming or stock-raising community the prizes have been materially increased, and in many instances they arts of the country. The directors are planning ior this year's fair to be the banner one in the association's history. About $\$ 90,000$ is being spent on general improvements, including a new areproof grand-stand, while numerous new and tent and value of the prize-list is such as to great pete. encourage stock-raisers and farmers to commay be obtained from E. McMahon, Secretary, a

Western Fair, London, Sept. 10-18 ont., are putting forth extra efforts this year to make the exhibition more popular than ever in all they giving more attention than to the live-stock department. A large amount of money has bean added to the prize-list. In the horse classes sev ral changes have been made, sections ave ath sections in the high-steppers for tandems and four in-hands, while in speed events several hundrer lollars have been added to the purses.
In the cattle, $\$ 500$ has been added to the Shorthorn class alone, and substantial increases
o the other classes, as previously noted in "The Farmer's Advocate," Increases have been made in the sheep classes, and one new class added in the swine. A third prize in cash has been given
the entire poultry list, beside a fine lot of specials. The agricultural and fruit departments have been carefully revised and added to where it wa
thought advisable. Send for prize-lists, entry hought advisable. Send for prize-1ists, M. Hunt, London, Ontario.

Over on hundred cow-testing associations were in operation in Canada on June 15 th; in
quiries for organization continue to be received quiries for organization continue to be received
there being noticeat)le activity in the Maritime

Crop Prospects Still Average Well. bulletin on the condition of crops and liv stack in Canada, at date of 1st July, was issued
by the Consur based on
spondents.
Low temperature and cold rains prevailed ove the whole of Canada in May and the early part
of June, which delayed seeding and checked vegetation. Then followed a period of drouth through-
out the northern and eastern parts of Ontario, the western and southern sections of Quebec, and nearly the whole of the Maritime Provinces.
Grain, hay and root crops were consequently in Grain, hay and root crops were, consequently, in
poor condition in all those regions. On both sides of the St. Lawrence, in the lower parts of Quebec and in the south-western counties of Ontario, there were copious showers in June, and all crops were looking well at the end of the month; fall wheat
would be ready for reapers in the second week of July. A feature of the season, however, has been a series of showers over local areas, and the co
dition of crops is irregular. But there is
dition of crops is irregular. But there is a note of hope in the reports of many correspond-
ents, encouraged by the widely-extended rains of ents, encouraged and 29 th June; and in the Maritime Prov-
inces, where the drouth was most severely felt, inces, where the drouth was most severely felt,
there were heavy rains on 7th July. British
Columbin hat Columbia has had a like experience of dry weather fall wheat is the only good crop there. In the the seeding of spring wheat, oats and barley, and the seeding of spring wheat, oats and barley, and
correspondents throughout Manitoba, Saskatch-
ewan and ewan and Alberta are jubilant at the prospects. few localities, and although seeding operations were delayed, cereals and grasses are nearly as well advanced as in any previous year. "Ideal" is the favorite word of many correspondents, and
it was generally expected that spring wheat would be was generally expected that spring wheat would
out in ear by 10th July. In Alberta fall wheat was badly winter-killed, and much of the land has been resown with spring wheat, oats
and barley. Spring wheat was heading out at the end of June in the southern parts of Alberta. For all parts of Canada the per cent. condition of principal crops at 1st July, compared with
the condition at the same date last year, was the condition at the same date last year, was
7.2 to 89 for fall wheat, 86.77 to 80 for spring wheat, 93.81 to 90 for oats, 85.60 to 83 for barley, 81.47 to 82 for rye, 84.40 to 82 for peas,
86.58 to 84 for mixed grains, 76 to 87 for hav and clover, and 82.74 to 99 for pasture. In the
case of all the grains, except fall wheat, the per cent. condition is higher this year than it was
last year; hay and clover and pasture are lower. In the three Northwest Provinces the average con-
Int 95.53 , and of oats, 96.56 . is in every case higher this year. Horses are 95.80 to 944 milch cows, 95.20 to 94 ; other
horned cattle, 93.77 to 87 ; sheep, 93 to 83 , and
leed Cars for Cheese
in former sease was provided on the same plan as storake" Commanissioner's 13ranch of the Dominion Th pay icing charges up to $\$ 5.00$ per car on a
(Mrtain number of cars per wek. The cars are
supplied ty the railway companies on demand of shippers for shipments of cheese in on carload lots at
the regular tariff rate without extra charge for the regular tariff rate without extra charge for
the icing. The ten weeks period referered to comLast year betucen elfven and twelve hundred iced
cars were furnished to shippers in the cheese-pro ducing districts of Ontario and Quebec witho weather before the 5 th of July, shippers are
pected to order refrigerator cars and have the
iced at their oun expencio iced at their own expense. Except for long hauls,
one ton of ice will maintain a reasonably satis-
factory temperature in a car loaded with cheose and as this only entails an expenditure of $\$ 2.50$
per car, it is cheap insurance against the risk of
prane injurs to the cheese from the eflects of hant
$\$ 14,000$ in Prizes for the Winter Fair.

## dales, Shires, Hackneys,

 oughbreds,total amoun
$\$ 3.27500$

United States Crops, July 1st. Statistics of the United States Department of ents and agents of the Bureall submits a pr liminary estimate of the area of corn planted as 109,006,000 acres, an increase of $7,218,000$ acres $(7.1 \%)$ as compared with the final estimate of las
year's acreage. The average condition of the corn ear's acreage. The average condition of the cor
crop on 'July 1st was 89.3 , as compared with 82.8 on July 1st, 1908; 80.2 on July 1st, 1907; and 84.8, the ten-year average on July 1 st. 1st, The or when harvested, was 82.4 , as compared 1st, or when harvested, was 82.4, as compare
with 80.7 last month; 80.6 at harvest, 1908; 78.3
in 1907 and 79 . in 1907; and 79.6 , the average at time of harves for the past ten years.
The average condition of spring wheat on July 1st was 92. , as compared with 95.2 last month
89.4 on July 1st, 1908; 87.2 on July 1st, 1907 and 87.0, the ten-year average on July 1st. The average condition on July 1 st of spring and winter wheat combined was 86.5 , against
86.5 last month; 83.9 on July 1st, $1908 ; 81.6$ on
July 1st, 1907; and July 1st, 1907; and 82.5 , the ten-year average.
The amount of wheat remaining on farms is estimeted at $2.3 \%$ of last year's crop, or about $15,062,000$ bushels, as compared with $33,797,000$ on July 1 st, 1908 ; and $43,608,000$, the average amount on farms on July 1st for the past ter
years The average condition of the oat crop on July 1 st was 88.3 , as compared with 88.7 last month; 85.7 July 1 st, 1908 ; 81.0 July 1st, 1907 ; and 86.8, the ten-year average on July 1st.
The average condition of barley on July 1 st
was 90.2 , as compared with 90 . 6 last was 90.2 , as compared with 90.6 last month; 86.2
on July 1st, 1900; 84.4 on July 1st, 1907; and 88.3, the ten-year average on July 1st. 91.4, as compared with 89.6 last month; 91.2 on July 1st, $1908 ; 89.7$ on July ist, 1907, and 89.8, the ten-year average on July 1st. $3,452,000$ acres, or 195,000 acres ( $6 \%$ ) more than
last year. The condition of the crop on July 1 was 93.0 , as compared with 89.6 on July 1 st sear average on July 1 st.
336 acres, or of tobecco is estimated at 1,108 , 336 acres, or 232,911 acres ( $26.6 \%$ ) more than
last year. The condition of the crop on July 1st was 89.8, as compared with 86.6 on July 1 st, The acreage of flax is estimated at $2,741,000$ acres, or 62,000 acres (2.3\%) more than last year.
The condition of the crop on July 1 st was 95.1 .
as compared with 925 on as compared with 92.5 on July 1st, 1908; 91.2
on July 1 st, 1907 ; 93.2 on July 1 st, 1906; and
90.4, the averare on July st for The average condition of the hay crop on July
1 st was 87.8, ns compared with 87.6 last month



 Re Express Rates on Fruit

## Farmers' Telephones

## There is nothing a farmer can do that will pay

 as much in added conveniences as to have atelephone in his house. In helping out in cases elephone in his house. In helping out in cases i emergency, and in pure satisfaction in the
nowledge that he has a means of instant communication not only with his neighbors, bu ompany was started by a gentleman he ot a notion that a telephone would be a who thing, and canvassed until he got a few subcribers; then, a meeting was called, and a few
simple rules were adopted (no long constitution). imple rules were adopted (no long constitution); made to the Government of Ontario for a charter. This can be got through the department of the
Provincial Secretary. who will furnish all forms Provincial Secretary, who will furnish all forms
required.
If there are ten or twelve who have the money and will put it into an enterprise of that kind, it will ultimately pay a fair profit, and is more asily handled than a large company. We have
seven directors, though I think five would be enough. Officers are Secretary and Treasurer, and the President, who is chosen by the Board
of Directors from among themselves. of Directors from among themselves ; these form The total cost of each telephone installed would depend very largely on the nature of the country, the cost of poles, labor, etc. We have only 19 and branches 35 miles of wire (metallic circuit) hoout 23 miles of poles, and one switch-board osting about $\$ 2,200$, besides the telephones, sa 8125 per phone. We expect to put in several
more phones on the same lines, but you wil understand that, in a more thickly-populated part of the country, and when men get more awake to the advantages of telephone connection, the initial cost per phone would be much less. We have shareholders paying cost of their ow phones are charged six dollars per year, payable
guarterly in advance. Phones are rented for twelve dollars per year: casual messages, Cents for conversations of three minutes, if transon our own lines, only 10 cents for each conver person whose charges are to be collected by the The most we have now on one circuit or party
line is nine, hut we could accommodate twenty line is nine, hut we could accommodate twenty
five on ten or twelve miles of wire. think it would be wise to put more than twenty ing, but, with good instruments, such as we ring made by the Canadian Inderendent Telephone Company. of Toranto, I have no doubt the service Our business is incmeasing, though not exceed
$\qquad$
$\qquad$ courteous and gentlemanly treatment by the em know, the company won't have the worst side o ment takes up the fact, the sonerer the GovernThe advantages to farmers of having tele-
Phone privileges seems to me so ohvious, and an could fill a page with instances that have actually ing a roided, and in some cases life saved and suffer
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$\qquad$ Their telephones the use oi the line for six
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$\qquad$
$\qquad$ on their application to the commission. that someone must attend to cers call, the rent

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THE FARMER'S ADVOCATE

Central Canada Prize List for Seed Grain.




Janetville, Ont,
Lancaster Lad, red; calved october
27 th , 1908 ; Jos. Stone, Green
Chief Baron: red; calved Dec. 15 th ,
hind
1007.
Comander: Stone
 Grant. Brooklin.

MARKETS
Toponto.
Toronto, on Monday, July ng of 1.981 cattle, 13 hogs, 225 cheep and 11 calves. Quality of cattle good porters. Butchers ${ }^{\text {nore }}$ wower than laist
week; prime picked lots, $\$ 5.50$ to $\$ 5.70$; oads of good, $\$ 5.20$ to $\$ 5.40 ;$ medium,
$\$ 4.80$ to $\$ 5.15$; common, $\$ 4.50$ to $\$ .75$; milk cows, $\$ 25$ to $\$ 50$ o calves, $\$ 3$ to $\$ 6$
 ied and watered,
at country points.
REVIEW of Last week's market Receipts of live stock last week at the
Union and City Stock-yards were 494 arloads, 228 at the City yards, and 266 at the Union. The numbers of each
lass of stock were as follows:

## Cattle Hogs Sheep

3,496 5,

The quality of the cattle was good, specially at the Union yards, where on
Monday and Tuesday there were 4,900 cattle, the bulk of which were exporters, the finest, and the largest number ever Trade, considering the number of cattle on sale, was good, although there was a light decline of 15c. to 20 c . per cwt.
or orall-fed butchers' ${ }^{\text {and }}$ exporters. Common grassers sold from 20c. to 40 c . per cwt. lower.
The following is a list of the leading
buyers : Alex. McIntosh, who bought. 375 exporters for Gordon \& Ironsides,
at an average of $\$ 8.10$ per cwt.; C. W. Camplell, of the S. \& S. Company,
New York and Chicago, bought 200 New York and Chicago, bought 200 ex-
porters at $\$ 0$ to $\$ 6.25$; Geo. Campbell ought 570 exporters for Nefson Morris,
of Chicago, at $\$ 5.60$ to $\$ 6.10$ for steers, and $\$ 5.35$ to $\$ 5.85$ for heifers.
Isach Brown, of. Armour \& Co., C 86.25. Woodward, bought for Swift \& 85. 85 to $\$ 6.20$, and heifers, at $\$ 5.75$ to
86.00 . 5 carloads of exporters-steers-at $\$ 8$ to 86.15; heifers, \$5.75 to \$5.90. Levack, bought 4 carloads of exporters,
at $\$ 6$ to $\$ 6.05$ per cwt.
M. Vincent, of Montreal, bought 1 load t butchers' steers, 1,100 lbs. each, at
5.37 .
The Harris Abattoir Co, bought about The Harris Abattoir Coo bought about
5 carloads of butchers ' cattle, from heifers, and cows at $\$ 3$ to $\$ 4.70$ per cwt.
cwt Wattoir Co. West Toronto, about 300 the. at $\$ 4.5$ to $\$ 1.50$ per cwt.
Cinnn's I.imited, west Toronto, bought
in cattle. at $\$ 4.75$ to $\$ 5.15$; cows. $\$ 8.75$
Many other dealers bought smaller num-
Me. These sales were all at the Union
res.
reds. which has lately become the
rat hay fork, rack lifter amd slings, hav



 the wanure on 10 the spreader. Mo. Mo.
Kinley \& Aitken, of Alliston. Ont..


GOSSIP. 4. in Jackson of the brock Rown


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THE FARMER'S ADVOCATE



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| ting of dournalists，in london，which concluded early this |  |
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People，Books and Doings．

Madrid． A tablet in honor of the memory of
John Richard（ireen，the historian，
was recently placed over the door
leading to his old college－rooms at
Oxford IIIs most famous work，
ported that the suspected persons are not French，but，according to a
Mr．Woodhouse and the landlord， they are people the landiord， nuch harm as All the French can o．＂Later he wrote to his princi－ ．．The inhabitants of Alfoxton crats．The House was taken for a crats．The House was taken for a
Person of the name of Wordsworth， Who came to It from a Village near
Honiton in Devonshire，about five Weeks since．The Rent of the House is secured to the Landlord by a Mr． homas Poole of this Town．Mr property He is a most violent Member of the Corresponding ciety and a strenuous supporter of
Its Friends．He has with him at this time a Mr．Coldridge him at vife，both of whom he has supported since Christmas last．This Cold－ reckoned a Man of superistor Ability is， No further correspondence remains， but what Mr．Eagleston has un－ no myth，and that Wordsworth and Coleridge were actually suspected of
being firench spies．
Quinquennial Congress．
The last week of the Quinquennial
$\begin{aligned} & \text { meetings was on a different plan to } \\ & \text { the Council work．In the latter the }\end{aligned}$
adies met in one large hall，and all
discussions were held there．During
the Congress week，the nine sections；
trial Arts，Laws Concerning Women
trial Arts，Laws Concerning women
Professions for Women，Moral Re－
$\begin{aligned} & \text { form，were held simultaneously in } \\ & \text { different halls；so the most－felt want }\end{aligned}$
at this time was nine pairs of ears
Every section was well attended
speakers，women who knew their sub
jects，could be heard at any hour，in
every branch of work undertaken for
the amelioration of standing condi－
Two very bright papers were read
$\begin{aligned} & \text { by Miss Edwards，of the Coaley } \\ & \text { Poultry Farm，Fingland ；and Miss }\end{aligned}$
lege，Swanley，Kent．
$\begin{aligned} & \text { Miss Vdwards is President of the } \\ & \text { Ladies＇Foultry Club，and testifies to }\end{aligned}$
having made hens pay．She was
left at an early age with little
means，and took up poultry－keeping
$\begin{aligned} & \text { as a life－work．She bought a smal } \\ & \text { cottage，with a cabbage－patch be }\end{aligned}$
$\begin{aligned} & \text { hind，and commenced on a small } \\ & \text { scale．To－day，this Model Poultry }\end{aligned}$
Farm is a successful business enter－
prise．She has added to it，and
$\begin{aligned} & \text { made many improvements out of her } \\ & \text { profits．Miss Edwards pointed out }\end{aligned}$
that there was room in every small
taking，but that the best kind of
$\begin{aligned} & \text { fowl suitable to the locality＇s de－} \\ & \text { mands be kept，and that all birds }\end{aligned}$
$\begin{aligned} & \text { and eggs be marketed in first－class } \\ & \text { ondition．Slipshod work was sure }\end{aligned}$
ondition．Slipshod work was sure
$\begin{aligned} & \text { After the address，some discussion } \\ & \text { arose as to the best dress for such }\end{aligned}$
$\begin{aligned} & \text { arose as to the best dress for such } \\ & \text { work．some ladies suggesting that } \\ & \text { skirts were an encumbrance．Miss } \\ & \text { Fdwarrus＇reply was．＂} \mathrm{T} \text { have al－}\end{aligned}$

Miss Wilkinsons paper was alsa very instructive. The horticultura
work she has been connected with also a comparatively recent under-
taking.
The Swanley College seem to be run on such lines as our Macsmaller scale. They have turned tom attention very particularly to tomato and bulb culture, and bee
keeping. They also accept a limited number of students who wish to pre pare
onies.
Another able paper, given in this
section was, " The Social value o the Professional Woman," by Rev Lydia K. Commander. Mrs. Cor young, fine-looking woman-as we as her experience as author, preache and lecturer, lent added weight t stances of many women who ha made experiments in self-supporting wholly altered public opinion as to the ability and efficiency of women' no matter what her station in life should know how to support herself
Philanthropic work of every descrip tion, was ably dealt with, and wo men's work in the home, in the stat and public life generally, not forget found wanting ; while Rev. Anna Shaw, Jane Addams, Dr. Rosali
Morton, Mrs. Ogivie Gordon, Mr May Wright Sewall, and many, man others, in that galaxy of histor mainged the way to further advanc ment and development
But it was not all work for this
great gathering great gathering. A day at Niagara a trị to lake Simcoe, garden par
ties galore, and other delights, wer sandwiched in between sessions, an one day that was ver: much enjoy Hon. Jas. Duff and Dr. Bruce Smith accompanied the party. Privat little delegate remarking. I shall look so surprised when 1 am asked
to pay for anything, after the lavish ada."
Those from over the seas were loud in their praise of our Agricul tural College. Everything was
shown them. explanatory little ad-
dresses were given in the diferent d. dresses were given in the different de-
partments, and all eager questions partments, and all eager questions
answered. and unfeigned delight exOne could not help but feel that it was of distinct value to Canada that
women of such arominence in their women of such prominence in their
own land should eee for themselves what the Dominion stands for among
the nations, and should carry back such a picture of thoroughness
ountiful tea was served on the very hirge majority of the children who campus by the students-" Looking do not go on to the high scheor public
like living corn flowers," as Froken
colleges, but pass out from our por
schools into a work-a-day world ? $\begin{array}{ll}\text { like living corn flowers, as Froken } & \text { schegls, into a work-a-day world? If, } \\ \text { Gad, of Denmark, poetically put it- } & \text { shools } \\ \text { and a happy afternoon was brought as it is generally agreed, education is a }\end{array}$ and a happy afternoon was brought as and
 and songs.
The actual meetings of the Quin- be agreed that our schools should in
quennial Congress are a thing of the fairness, give some industrial training to quennial congress are a ching or the the fure workmen in shop and field. and without doubt will be productive $\begin{aligned} & \text { If it can be done! } \\ & \text { If it can be done ! There is the ques- } \\ & \text { of much forward thought and work. } \\ & \text { tion } \\ & \text { Granted it is desirable, but how }\end{aligned}$ of much forward thought and work. (ion (iranted it is desirable, but how
L. M. PARSONS (for H. A. 13.) (an it. be accomplished ? The solution Teachers' Normal Classes at the Ontario Agricul Guelph.

```
On Tuesday last (June 29th) one hun-
dred and thirty-two Normal teachers com-
```



Teachers' Normal Class in Industrial Arts.
 had received instruction in elementary at Cornell University is true of the On
agriculture and horticulture, and the re- turio Agricultural College also -it is th maining forty had been trained in indus- "greatest work now before this College.
trial arts. The former look forward to teaching in rural schools; the latter have it is not exactly a new undertaking at
been equipped for a special service in the College. The work had its founda
 This graduation marks a fixed place for ment of the Macdonald Institute. Dr
the agricultural college in the cause of Robertson, and those who planned with the agricultural college in the cause of Robertson, and those who planned with
primary education in Ontario. These hime had clearly in mind the need for
teachers have teen trained by the College specially-trained teachers. The departprimary education in ontario. These him, had clearly in mind the need for
teachers have been trained by the College specially-trained teachers. The depart
under the direct auspices of the provin- ments of nature study and manual trainunder the direct auspices of the Provin- ments of nature study and manual train-
cial Department of Education, for the ing were equipped and manned for this cial Department of Education, for the ing were equipped and manned for this
dist inct purpose of bringing something purpose. Teachers' classes thave been industrial training to the boys and held every year, and about four hundred
(xirls who will probably have their teachers in all have been trained in vari-
chooling end in the public schools, and ous short courses since 1904 . During echooling end in the public schools, and ous short courses since 1904. During
qo from them onto the farm and into this time the nature of the work has been the workshops to make their livings. in process of change. In nature stud.
This is one of the great problems in it has developed towards the practica)
education to-day. How can the schools and alreicultural education to-day. How can the schools and agricultural) in manual training ther

GLEMENTARY AGRICULTLRE: AND horticeltur The obiect of this course, as detined
he syllabus, is "to train teachers in cientific principles and practicos the modern farming, so that the country or ithage school may adequately sympathize try boys and girls.:" There are about five thousand chools in the Province, attended by children. By far the and fifty thousand these finish their the greater number of schools and follow farming as in their work. If country teachers can be
eruipped to arouse the erluipped to arouse the interests and
direct the activities of those who con under their charge much good mhy cosult to the greatest of our industries, agri-
culture, as well as to the individual worker. as well as to the individual method, agricultural
education will proceed naturally with the education will proceed naturally with the
child, and not, as too often it proceeds. Mnnaturally with the grown-up, This is
the pedagogic basis for the effort. How this plan is to work out. is stil
nore or less of an experiment. But from the success which has attended isolated
attempts in an few schools, much is to
the expected. In other irovin or
States where the problem is lowing grap-
pled with pled with. Ontario's plan is the one for-
lowed, and the agricultural colleges are supplementing the work of the Noramal
schools. It must be realized, however. Schools. It must be realized, however.
that the whole field is not being covered hy furniching ninpty-two teachers each
year for the five thousand schools. The
work is only at its beginning, and the work is only at its beginning, and the
future will necessarily see larger develop-
ments. In the meantime the way is being cleared.
Success in this new departure resta largely with the teacher. Trustees and
inspectors may do much by encouraging
and directing, but on the teacher will
fall the chief task of bringing agriculture into the work of the school. How will
she do it?-for there are practically no male teachers for country practically no
comoonis from from the training schools now.
How will How will she do it? It will not be by
any academic method, such an might be followed with a text-book. That method
has been tried and larkely discarded. It will rather be along the lines of the ob-
servational, the practical and the experiservational, the practical and the experi-
mental. The children's observations will be directed to the manifold things that
lie about them at their homes or in the neighborhood. Interests will be aroused in the trees, the insects, the birds, the machinery, the farm operations. Lessons whl be kiven on identifying the weeds and weed seeds, on recognizing soils, on Experiments will be carried out in garden plots on the value of manuring, the growing of seedling forest trees, the value of
mulching. ctc. There is no end to the things that mav enter daily into the apart from the school work, the teacher npart from the school work, the teacher
will wield an influence out of school of
immeasurable benefit. Her visits in the


THE FARMER'S ADVOCATE






 Camaiel Morell. once Presididet of the employed seven thousuand men mons whic artist, and trained artists. What is th.

 than yesterday, and press forward in the is not at all surprising to find that one thele sunrise, not to be sup-
 said he had "no time to make money"; distinction, the spark which needed just Flickered in bounds, grew golld, the but at least we shall make a grand suc- a little development to become the illucess of life here and be ready to press
on to life hereafter. $\begin{aligned} & \text { minating power. } \\ & \text { Robert }\end{aligned}$ Browning's father and grand

```
            If my hand slacked,
            hould rob God."
```

            The New Book
    

## The Roundabout Club

Robert Browning




1909
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Canado


 Mrs. Dobson, of Australia, said her
experience disproved the contention
that a wife's vote only supplemented The best sights in the circus are all under
the main tent. They are the big show, but the road to the big show is lined by low-priced side
shows, of minor attractions, with wlly barkers outside, ceaselessly striving to draw the p
ing throng off the maln thoroushfare. ing throng off the maln thoroughfare.
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by Itself, with its lar by Itself, with its larse steel bowl, supported
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plece skimmer, taking all the butter-lat out plece skminm, and at the same time removin
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the the impurities from both.
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Easy Cleanlms, can be cleaned in less than

HAMILTON,
her husband's. Woman suffrage has tralia.
D. Alice Salomon: " It should he granted from the mere sense of jus
tice ; women's share in the state
has an equal walue through her cahas an equal walue through her ca-
pacity of wife and mother," Norway
Froken Gina Kroc. of spoke as a full-fledged "holder of
franchise." " In 1885 we started We were very few-only twelve-b
we divided the country between In the name of historical develop-
ment and logic, as well as in the name of justice and humanity, poli-
ticians could no longer refuse us ticians could no longer refuse us;
but it took twenty-five years for the
parliamentary sufirage to come. We have tried not only to speak to their
brains, but their hearts, and they Mrs. Edwards, of Calgary, spoke of Women endeavor to place women commissions. She said. "An Al-
bani or a Melba does not shudder at
the publicity that the publicity that comes from sing.
ing, and men urge them ing, and men urge them if they should stop the song,
but and begin to speak on some impor-
tant subject. men and women would write them down as unwomanly. It
is our duty as mothers to be placed on school boards to see to the wel-
fare of our children : on hospital
boards, boards of health, public charities, and on iuries too. If we
are not fit to govern. we should be trained differently,"
And last of all, the International
President, Lady Aberdeen President, Lady Aberdeen, sent the
audience home rejoicing because of
her stand on the question. ". At the present time, when my
husband occupies the position he does, it is not considered desirable
that I should speak on any subject
of public controversy. But to-night, as President of the great Council,
hinding together so many women again solemnly reiterate their con
viction that the granting of the suf vage to women is the hasis of all
ral
further progress. I cannot keep sit F. WILliams co. Morrisburg, On
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ent. It has always seemed to
nonunderstandahle thing why
nogey has been made of all this.
is a years suffrage will be granted to
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womentan
recentative governments.

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will put us in the position of being
able to do our duty to the home able to do our duty to the ho
the community and the country."

## Current Events.

Diamond fields, valued at $\$ 250$, 000,000 , have been discovered in Ger-

Plans for a greater Cobalt are al ready under way: A building in-
spector has been appointed, and the town is to be rebuilt with more sub-
stantial buildings, wider streets, and better sanitation.

Commissioner of Insurance Barry
stated stated, at a meeting of the Michigan
Manufacturers' Association, recently, that the total fire loss in the United,
States in 1908 amounted to $\$ 457$, States in
000,000 .
Norbert Wiener, 14 years old, has Caken his degree as l3achelor of Arts at Tufts College, Boston. He will
enter Harvard in the fali, and will graduate from there in 1910, at the age of 15 , after which he intends

Lord Strathcona has cabled a 850,000 donation to McGill the new medical building, and $\$ 50$, 000 to augment the salaries of the staff. This makes a
000,000 given by Lord Strathcona to this University. A keen interest in aviation is being taken by the French people. A
number of machines are now pre paring to attempt to cross the Chan
nel, and the University of France has just received a gift of $1,500,000$ francs for the purpose of founding a vestigation into the principles of

An expedition is being organized in phot ork for the purpose of traking balloons of wild animals in their native haunts in
Fast Africa. Several balloons will
be taken, and a number of number of cameras,
hold a plate 22 by

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## The Golden Dog <br> (Le Chien D'Or

A Canadlan Historical Romance. Copyright, 1897, by L. C. Page \& Co. (lnc.) (Sertal Rights Securred by the Wm. Weld Co., Ledd (HAPTER XXIV,-Continued. A long table in the middle of the
room was surrounded by a lot of felows, plainly of the baser sort-sailors, boatmen, voyageurs-in rough
clothes, and tuques-red or blue-upon their heads. Every one had a
pipe in his mouth. Some were talkpipe in his mouth. Some were talk-
ing with loose, loquacious tongues;
some were singing; their ugly, jolly visages-half illumined by the light of tallow candles stuck in iron
sconces on the wall-were worthy of sconces on the waithful Dutch pencils of Schalken and Teniers. They were singing a song as the new company At the head of the table sat Master, of Norman cider in one hand, and a pipe in the other. His budget of law hung on a peg in the corner, as
quite superfluous at a free-and-easy fuite superfluous at a free-and-easy
at the Fleur-de-Lis. Max Grimeau and Blind Bartemy
had arrived in good time for the eel had arrived in good time for the eel
pie. They sat one on each side of Master Fothier, iull as ticks and
merry as grigs; a jolly chorus was in progress as ciadet entered. The company rose and bowed to with a call. " Pray sit down gentlemen ; take our chairs!' exclaimed Master 'Pothier, officiously offering his to Cadet, who accepted it, as well as
the black mur. of which he drank the black mug, of which he drank
heartily. declaring old Norman cider suited his taste better than the choic"We are your most humble servi-
tors, and highly esteem the honor of tors, and highly esteem the honor of
vour visit," said Master Pothier, as he refilled the black mug.
. Jolly fellows !', replied Cadet,
stretching hic legs refreshingly 'this stretching his legs refreshingly, "this
does look comfortable.
DO does look comiortable lo you
drink cider because you like it, or
because vou cannot aflord better ?" because you cannot afford better
There is nothing better than Norman cider, except Cognac brandy,"
replied Master Pothier. grinning from ear to ear. .Norman cider is fit
for a king, and, with a lining of
brandy, is drink for a Pope! It will brandy is drink for a Pope ! It will
make a man see stars at noonday.
Won't it . What ! old turn-penny : are you
here?" cried Cadet, recognizing the old heggar of the gate of the Rasse Ville.
"Oh, yes your Honor ras replied
Hartem, with his professional whine, "pour 1 amour de Itieu! !", jolliest beg-
" :add you are the | Wied Cadet, throwing him a crown. I am. your Honor.". said Max Grim-
mau. Mrinning like an Alsatian over a Strashourg pie. "It was I sang might have heard me, your Honor "" Sworn the sure is not a jid: I will ber heggar in
2uetme than you. old Max Mere is
 Ou, you roring limb of the faw,
Master Pothier (oome. Master Pothier: I "ill fil your ragged gown
full at :" demithinn of hrandy if you
will wh on with the song you were " We. "...e. at the nld hallad of the Which Wat Per Pothier rul wen Ta Marche, "you might



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| attentively: rough as he was, he liked the old Canadian music <br> Jean tuned his fiddle afresh, and placing it with a knowing jerk under his chin, and with an air of conceit worthy of Lulli, began to sing and play the old ballad <br> A St. Malo, beau port de mer, Trois navires sont arrives, ('harges davoine, charges de bled Trois dames s'en vont les merchand- <br> Tut:"' exclaimed larin, " who cares for things that have no more us a madrigal, or one of the devil's ditties from the Quartier latin <br> 1 do not know a devil's ditty. and would not sing one if I did, rehallads oi his own Vew France. "Inknow now oaths, and habitans cannot learned them: but Sit. Malo, beau port de mer, - 1 will sing that with $\qquad$ <br> Camations are simple, almost infantine in their language, and as chaste countries. Impure songs originate in lasses, who know better, and revel from choice in musical slang and indecenc $\qquad$ Cadet, stretching himself in his chair "I lik" the old Canadian ballads ever made in Faris! You must sing your dewit's ditties yourself, Varin $\qquad$ the party of gentlemen the Taverne de Menut a than when they came. Taster Pothier, seated in if the rest of his compan- | The gentlemen, on their return to the Taverne de Menut, found De had followed Amelie to the city, and learning the cause of her anxiety and unconcealed tears, started off with the determination to find Le Gardeur <br> The officer of the guard at the gate of the l3asse Ville was able to direct him to the right quarter. He hast- ened to the Taverne De Menut, and in haughty defiance of le Pean, with whom he had high words, he got the unfortunate le Gardeur away, placed him in a carriage, and took him sweet and sincere thanks as he though a life's service could scarcely have deserved. "Par Dieu that Philibert is a det, to the savage annoyance of the Secretary. " He has pluck and im pudence tor ten gardes du corps. It was neater done than at I Beaumanoir ! ') (adlet sat down to conjoy a broad laugh at the expense of his friend over the second carrying off of Le Gardeur. $\qquad$ not," exclaimed De I'ean. <br> through, and could not have run him sorry had you tried it. De Pean," replied "adet. "That Philibert is not as safe as the Bank of France to draw ujon. I tell you it was well Pean. But never mind," continued Cadet " there is never so had a das it. so make up a hand at cards with me and C'olonel Trivio, and put your: bruised feelings." De Pean failed to laugh off his ill-humor, but he took ('adet's advice, and sat down to play for the remainder of the night. | ness to my dear, unhappy brother ?"' said Amelie to him, her eyes tremuvulsively clasping his, as Pierre took leave of her at the door of the mansion of the Lady de Tilly. <br> Le Gardeur claims our deepest commiseration, Amelie," replied he <br> I do know, Pierre and shame to <br> know it. But you are so generous ever. Do not blame me for this agiself, as a ship will right up for moment in veering. <br> Blame you! what a thought <br> As soon blame the angels for being good! But I have a plan, Amelie, of the city and back to Tilly for a while. Your noble aunt has given me an invitation to visit the Manor House. What if I manage to accomhome?' <br> A visit to Tilly in your company uld, of all things, delight Le Gardeur," said she, " and perhaps break those ties that bind him to the city. <br> Philibert, and he thought how delightful would be her own fair presence, also, at 'Tills. <br> All the physicians in the world will not help Le Gardeur as will your company at Tilly !'" exclaimed Gardeur needs not medicine. $\qquad$ Amelie! Men sometimes die when they fail in that." He looked at her as he said this, but 'instantly withdrew his eyes, fearing he had <br> She blushed, and only replied, with thankful to vou, Pierre Philibert " But she gave him, as he left, a look of gratitude and love which never effaced itcelf from his memory. In after-vears, when Pierre Philibert | nor for woman's love, nor for life itself, the tender, impassioned glance of those dark eyes, wet with tears, came back to him like a break in the dark clouds, disclosing the blue heaven beyond; and he longed to be there <br> CHAPTER XXV. <br> Betwixt the Last Violet and the Earliest Rose. <br> Do not go out to-day, brother, I want you so particularly to stay with me to-day," said Amelie de P.epentigny, with a gentle, pleading voice. "Aunt has resolved to return to Tilly to-morrow; I reed vour help to arrange these papers, and anyway, I want your company, brother," added she, smiling. <br> Le Gardeur sat feverish, nervous, and ill after his wild night spent at the Taverne de Menut. He started and reddened as his sister's eyes rested on him. He looked through the open window like a wild animal ready to spring out of it and escape. A raging thirst was on him, which Amelie sought to assuage by draughts of water, milk and tea-a sisterly attention which he more than once acknowledged by kissing the loving fingers which waited upon him so tenderly. <br> ${ }^{1}$ ", I cannot stay in the house Amelie," said he ; "' I shall go mad if I do! You know how it has fared with me, sweet sister ! I yesterday built up a tower of glass, high as heaven, my heaven-a woman's love; co-day, I am crushed under the ruins $\qquad$ of any faithless woman. Oh! why will men think more of our sex than serve the devotion of a good and $\qquad$ 1h, had Angelique |
| :---: | :---: | :---: | :---: |

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$\qquad$
$\square$
 me: -newer will, in all likelihood he will And, my darling
 both felt in the presence of Pierre
brought out resemblances that flashed brought out resemblances that flashed
iresh on the quick, observant eye of The afternoon was spent in
versation of that kind which and takes with mutual delight.
Gardeur seemed more his old Gardeur seemed more his old sel again in the company of cierre
Amelie was charmed at the visible influence of Pierre over him, and a hope sprang up in her bosom that the little artitice of begulling ee can Pierre might be the means of thwarting those adverse influences which
were dragging him to destruction. were dragging him to destruction.
If Pierre grew inore animated in If Pierre grew more animated in
the presence of those bright eyes, the presence of those bright eyes,
which were at once appreciative and
sympathizing Amelie drank in the sympathizing, Amelie drank in the
conversation of Pierre as one drinks conversation of Pierre as one drink
the wine of a favorite vintage. If
her heart her heart grew a little intoxicated,
what the wonder? Furtively as she glanced at the marly countenance
of Pierre, she saw in it the reflection of his noble mind and independent spir it; and remembering the injunction of Le Gardeur--Ior, woman-like, she
sought a support, out oi herself to
justify a foregone conclusion-she thought that if Pierre asked her she
$\qquad$ her greatest happiness would be to
live in the possession of his love. live in the possession of his love.
Pierre Philibert twoh his departure
carly from the house oi the Lady de Tilly, to make his preparations for
leaving the city next day. His father


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 Great Special Auction Sale wednesdar. Juty 28, 1909 35 Imported Clydesdale Fillies 2 Shetland Pony Stallions
 are all of extra good size and quality with the
best of hreeding. and are all two and three yea

100 Horses

|  |
| :---: |



WILSON'S FLY PADS
avoid useless imitations

## "FARMING <br> PROFIT

## Experienced Dairymen

 Purchase "Melottes" They Last a Model

CREAM SEPARATOR.

Lifetime AND PAY FOR THEMSELVES the first year.

Every machine guara teed by

R. A. LISTER \& CO., LTD.


THE FARMER'S ADVOCATE


A Nervous Wreck Now in Robust Health. Mrs. M. E. Harron, of Newton, Ont.,
writes: ${ }^{6}$ I must say our son would have writes: in a consumptive's grave long ago had it not been for PSYCHINE. He was taken down with La Grippe and a severe
cold $H$ is whole system was weak, incold. His whole system was weak, in-
cluding his lungs, which were seriously
affected, as is always the case after affected, as is always the case after L Grippe. After taking several remedies and
treatments we procured PSYCHINE, and tongue cannot tell the marvellous result brought about in two months. He gaine and appetire returned."
Mr. Harron himself is most emphatic as to the beneficial result of using PSY
CHINE. He declares, "To-day I am in splendid health and have never been sick a day since I took PSYCHINE PSYCHINE is the greatest tonic known
to medical science. It builds up the sys to medical science. It builds up the sys enabling itto resist and throw off disease Weak nerves cannot exist where PSY
CHINE is used consis ently. Send for trial botlle and prove the truth of these statements.
PSYCHINE is sold by all druggists PS Mriminn CTHE GREATESTOF TONLCS FOR HEALTH ANO ENCROY

## ('aruso, the great opera singer, tells a lady's maid's artless criticism of a amateur singer, whose methods were

 the strained order.ing her mistresses' hair, when whe men tioned that she had heard Miss Bird sin "And how did you like it $?$."

Can Do Her Own Work Mow. Dootor Said She Had Weighad 125 Pounds. Now Weighs 185 Mrs. M. McGann, Delee Junction
N.B., writes:- "I wish to tell you wha
Milburn's Heart and Nerve Piills have done for me. Three years ago I was s I went to a doctor, and he told me I ha heart trouble and that my nerves were al
unstrung. I took his medicine, as he ordered me to do, but it did me no good and Nefre Pitls, and had only taken on tinued their use until I had taken several boxes, and 12 m now strong and well
and able to do my own work 125 pounds. and now pills I weighed have given birth to a lovely daughter When I commenced tiking Milburn'
Heart and Verve Pill stairs without resting, before I got to the
top. I can now Milburn's Heart and Nerve Pills are
50 cents per box. or 3 boves for $\$ 1.25$ at all dealers, or mailed direct on receipt of





















Vectit rocher de la haute mon-

pated complinentst to tourgeors. who
hose
hose who have to not give, how can



houghts put into words would sav.


doux
soupirs
echos,
ententen
soupirs !
languissant je vais bientot-
mhere were no dry eves as she con-
There were no dry eves as she con.
cluced.
The last sighs of Cadieux
seemein to exppire on her lips:
Rossignole, va dire a ma maitresse
A mes entans, qui un adieu jo lour

Afew more friends of the family
Uropped in-Coulon de villiers, Claude
Beaunarnais, Lat Corne st. Iuc, aut
others, who had heard oof the lady's




The evening passed on pleasantly,
and the clock of the Recollets pealed
and the clock of the Recollets pealled
out a good late hour before they
out a good late hour before they
took final leave of their nospitable
hostess, with mutual good wishes
hostess, with mutual good wishes
and adieus, which with some of them
and adieus, which with some of them
were never repeated
were never repeated. Le Gardeur
was no little touched and comforted
by so much sympathy and kindness
He shook the Bourgeois affectionately
by the hand, inviting him to come


Dr. Page's English Spavin Cure


 Rown

 and mand 1

| J. A. JOHNSTON \& CO., Drugrita, <br> 171 King St. E., <br> TORONTO, ONT. |
| :--- |

)

## ABSORBINE





 Sale
Imported CIydesdale Brood Mare. Foal
Mal

 Ormsby Grange Stock Farm ORMSTOWN, P. O. OUNCAN MEEACMRAN, F.R.C. V. s., D. V.s.. Importer and breeder of
highoclass pure-bred CLYDESDALES. Farmers or ranchmen starting breading Clydea
pure or \&rade. specially invited to correspond. Shetland, Welsh and Iceland Ponies
 E. DYMENT. Copetown P.O. and Stan OHUROH BELLS CHIMES AND PEALS Memorial bells a Specialt mcshame bell foundry ca. baltimore, mo.. u.s.


 of lightning-becomes, when caught
by the exes of tove,
at real t thing, Dixed and imperishabebe forever.
tonding,
tend tender smile, a fond word of love's
creation, contains a universe of light and life and immortality - small things, and of little value to others, but to him or her whom they con-
cern, more precious and more prized cern, more precious and more treasures of Ind. Master Jean La Marche, after a few minutes' rest, made still more refreshing by a draught from a
suspicious-looking flask, which, out suspicious-looking flask, which, out
of respect for the presence of his mistress, the Lady de Filly, he said contained " milk," began a popular boat-song which every voyageur in
New France knew as well as his New France knew as well as
prayers, and loved to his very finger-

## Heavy Galvanized Steel Stock Watering Trough





The Erie Iron Works, Ltd. ST. THOMAS, ONTARIO.


CLYDESDALES AND FRENCH COACHERS

R. NESS \& SON, HOWICK, QUEBEC.


 $\underset{\substack{\text { the judging } \\ \text { and } \\ \text { visitiors } \\ \text { vipor }}}{ }$


$\uparrow$For Sale: Cholce Clydessale, Hackney and French Coach
 IMPORTED SHIRES Aist dith Thoment tathen


Clydesdales and Hackneys wow how or ordent


ص.





Clydesdales and Hackneys $\frac{1}{\mathrm{I} \text { titit have on hand a fow }}$

NEW IMPORTATION OF CLYDESDALES.


Please Mention this Paper.


OCK SALT for Stock. \$10 PER TO Toronto Salt Works. G. J. culff, Manager THE "MAPLES" HEREFORDS
 orangeville P.O. and sta.

 King's corvee, to fortify the city, cheerily, you dampen the joy or
portended an invasion by the Eng.
our arrival.
 come up in ships from below, as in Martin is getting ready to fire off the
the days of Sir William Phipps with culverin in honor of your arrival."


## Hax Stomach Ciams

Would Roll on the Floor in Agony.

Mr. Wm. Kranth, contractor and builder, Owen Sound, Ont., writes:Having read some of the testimoniale of wild Strewher in I thought it advis able to say a word of praise for its merits. Some years ago I was much troubled with stomach trouble and cramps. wsed to roll on the floor in agony, and on one occasion I went into a faint after suffering intensely for four hours. A was attacked again and had to lo tie down, in my rig, seeking relief. asked the druggist for a quick remedy nd The remedy I recent fremiel druggist was Dr. Fowler's Extract of Wild St rawberry. Whenever, after that speedy relief in the above mentioned remedy, and 1 am now cured of this but its contents. eff the botle is small, I can recommend it highly for the cure of cramps.
Dr. Fowler's Extract of Wild StrawIt is not a new and market for 64 years. Ask for it and insist on getting what you ask for. Refuse substitutes. They're Price 35 cents. Manufactured only by

1854-Maple Lodge Stock Farm-1909 Shorthorn bulls and helfers of extra
guality and breeding, and from best milkLelcesters
A. W. sMITH, Mals. Lod ze P.O., Ontario Green Grove Shorthorns and Yorkshires
 Edward, aged four, prided himself on dok in a vacant lot near his home, he herememoniously Hed to the house. Upon
heing questioned as to whether he was fraid, he said, "No: I just thought it
vas a good time to see how fast I could

Which do you think won? Not long ago two men, athletes, went into a contest to see which could stand erect and hold his arms stretched out for the loneer time side of his body for the longer time. One man had fed roast beef. ctc. the other ate heartily, roast bece. ctc.; the other ate heartily,
but confined himself to such foods as Quaker Uats, rice, macaroni, etc. Which do you think held out longer?
The first man lasted twenty-two minces. The Quaker Oats-macaroni-rice Theres more strensth and economy ind eathe lots of Quaker Oats than most
wople imagime. family should eat plentifully
lever Bivery family should eat plentifully
Quaker Oats at least once every
ay. lirakiast is the best time Ii ndustrics of this country.
Regular size packages for city trade, large size family packages for those
who are not convenient to the stores.
Grocers sell both of these package contains a piece of handsome

JULY 15, 1909
Questions and answers Miscellaneous.

Sale of bull


 and he was sent to Montreal and con-
and
lemned, being affected with tuberculosis demned, being anected with tuberculosis. eived for him, or will the buyer who
ook him to Montreal have to lose it? took him Ontario. Ans.-Assuming that the transaction wa
bona fide, that no warranty was given and no misrepresentation made, we do in any way.
ECZEMA
My horses, in the winter, st
scratching their legs and kicking
short kicks, first one and then the short kicks, first one and kicking lit then the oth
till it went through the whole sta thought it was just want of work, and on the grass. still, and you
ing to eat th a brood mare, the mane is all coming
put. What is the reacon and Ans.-The symptoms indicate eczema Clip legs, and wash the whole body of
each horse thoroughly with strong, warm soft-soap suds, applied with a scrubbi
brush, ${ }^{\text {giving particular attention to }}$ twice de
grains
ceases. and morning.

I am greatly troubled with
ens, and have had dilliculty
hens to remain on their nests to hatcl henhouse and whitewashed
roosts and nest boxes. and pu
etc., an
My hen
ny pren kees them off the fowl, and Ans.-It is very difticult. if not imp min. Oneep should entirely free of velax his vigi-
ance. No doubt enouph mites reatment to become the progenitors of
he present troublesome brood or naddition to the precautions taken, you
had occasionally washed the roosts, or
ven sprayed the whole inside ond ven sprayed the whole inside of the
houses with coal oil, you would probably
'ave succeeded in keeping them redyced. requently changed, the fresh material he
Ing dusted each time with sulphur.
poultry correspondont when fore us, recommends applying black oil
or crude petroleum, to the hens at night
We would say, clean out the house again whitewash the whole interior, henhouse duch
ten with insect powder or sulphur be ore she gois in the renovated house, and

GOSSIP


THE FARMER'S ADVOCATE.





## Shorthorn Cattle

## and lincoln sheep.



J. T. GIBSON, DENFIELD, ONT.

## A. Edward Meyer, P. O. Box 378, Guelph, Ontario, Breeds scotch shorthorns Exelusivels Twelve of the moot noted Scotch tribes havo repro seitative in my herd Herd bulla: Scottioh Heat (imp.) $=65012$. 



SOME SHOW PROPOSITIONS iN bOTH MALE AND FBMALB SHORTHORNS
well as a number of the useful sort of both sexes. Prices right. Large Manazer. H. Cargill \& Son, Carsill, Ont.

Shorthorns and Shropshires SHORTHORN BULLS PRICED
 ats heifers bred to Queeer's Sounsellor,
and and co
The Shropshires are yearling rams and ewes, bred H. L. STEAD, Wilton Grove, Ont. London, G.T.R.,., 6 miles; Westminster, I mile.

7 Imported Scotch Shorthorn Bulls 7

 fred. barnett, manager. J. F. MITCHELL, BURLINGTON, ONT.

Geo. Amos \& Son,
MOFFAT, ONTARIO.
For sale: Several good young heifers. some of
them show heifes, and all of the very best Soctoh
breeding. Correspondence solicited and inspection
britedt
Moffat Station, II Mlles East or City
of Gueiph, on C. P. R.
SHORTHORNS
 CLYDESDALES One pair of by marees. and one darlk brown, beav
draftind and two spring colts. WHY NOT BUY A HIGH-CLASS SCOTCH SHORTHORN COW, Or a Helfer, Or a Bull, Or a Few Shropshire Ewes, Or a Few Cotswold Ewes, Now, While You Can Buy Them Low?
I can offer you something in any of them that will make a start second to none.
Write for what you want.


Shorthorns


MR. A. J. HICCKMAN Court Lodge,Egerton,Kent,England


Wart is bred in lines that could be expected to produce extreme speed. He was
sired by Directum $2.05 \downarrow$, dam Miss Copeand $2.25 \frac{1}{2}$ (dam of Copeland $2.09 \frac{1}{2}$, and randam of Major Delmar 1.59 ) $)$, by
Imont Star 2.28 , son of Almont 83 ; onsequently, he is the second 2.10 perormer for his dam, and his performance aces her in the exclusive list of mares earing that distinction. He is another
eather in the cap of those who believe development is a factor in speed produc-
ion, and if his performance over the larksburg two-lap track is a true indi-
ation of what may be expected of him wer record when the eeason closes than IRISH HUNTER HORSES SELL WELL At the kinightsbridge sale in London, he following prices were realized by
uaranteed hunters from the stud of Mr. Gathbud, a prizewinner at Clone Quinn, by Crackenthorpe, brown geld-
ing allyneal, by The Penman, won jump. Hall Dare, a dark brown hunter....... 100 brown............................. ......... 165 Tonkey Brand, won three events...... 140 ewin, won point. also jumping.......... 155

Power, by Harlem, won prize at Kil. | kenny................................ 130 |
| :---: | :---: | :---: |
| 180 | ondon, by Douglas, won first prizes.... 220

Quinlan, hy Doun
V.S., by Prince George, bay hunter... 220 atrick, by Senanus
Cabbins, by The Wraith
H. Cargill \& Son, Cargill, Ont., breedtill doing some business, as witness folowing list of sales: Bull, Golden Rlood, to Smith Rros., South Woodslee;
hull, Lord Rosebery, to J. \& W. Volck, Mildmay, Ont.; bull, Crown Jewel,
w. Moihlhausen, Walkerton; heifers, Morretta C. 3rd and Golden Beauty, to Nova Scotia Agricultural College; bull,
Flower Lord, to L. N. McLean, Glammis; heifers, Belle Royal and Lady Royal, to Wm. McIntosh, Burgoyne; ${ }^{\text {Bull, Prince }}$ Prince
Rameses, to McIntyre Bros. Malcolm; Rameses, to McIntyre Bros., Malcolm;
bull, Cobalt, to A. Crow, Tara; bull, -ancaster Royal, to A. Stringer, Kingarf;
ull, Royal Falconer, to Wm. Stanley, Purple Grove; bull, Merry Mistletoe, to
U. W. Smith, M.P., Maple Lodge. The amber is too great Maple Lodge. The
will probibe, hence, to our usual standard of exxelllence in
oth conformation and breeding wer (ill have a few and breeding. We hif service, and a beautiful bunch
hrifers, doing nicely, on good grass.

 JOMN DAYDEN - SON, EROOKLN. ONT. Show Catla All ages. Not exhibiting this year
H. Smith. Exeter, Ont

$\left\{\begin{array}{c}2 \\ \cdots+y\end{array}\right.$
Willow Bank Stock Farm Imported Bull! SHORTHORNS AND SHICESTERS.

 Moroning $=32000=$ CuIEDONIA OATA

AFEW YOUNG BULLS and 20 YOUNG COWS and HEIFERS 1. A. WATt. SNEM. ONTARIO. ELORA STAIIOM. G. T. R. AND C. P. R. SHORTHORNS Fismy Belmar Parc. Jhe Doesele, Menager. PETER Wintr, Pememoke, Ont.

GLENBURN STOCK FARM One yearling SHORTHORN BULL, and a bot of couss beifers and calve
 SPRING VALLEY SHORTHORNS


$\qquad$ KYLE BROS, AYR, ONT


VALLEY HOME SHORTHORNS AND BERKSHIRES





SHORTHORNS AND BERKSHIRES|Scotch Shorthorns $\begin{aligned} & \text { Five choice red } \\ & \text { bulls a } \\ & \text { nd }\end{aligned}$
 come and see them. Prices moderate
ELMIRA, ONTARIO.
ISRAEL
GROPF.
Rowan Hill Shortherms The Ses Toreato errad champion, Royal



Seotch Sherthorns Canadds, Ereatent

JOHN GARDHOUSE \& SONS

 $\qquad$



Stoneycroft Ayrshires Choice young bulls and beifers of
Lure Improved Yorkshirre PIIs
End dams, now ready to
Stoneycroft Stock Farm, Ste Anne de Belliove, Quee
Stonehouse Ayrshires.


| d's station, g.t.r. | Phene in residence - EYALE GEME |
| :---: | :---: |
| UTI | Mec ${ }^{\text {Two moung bui }}$ |
| AYRSHIRES of head of herd. For sale Fem | months , |
| some out of 11.000 -ib. |  |
| station. Hammond 'G. T. R. and C | CORNE |

Springhill Ayrshires $\qquad$

 P. D. McArthur North Geer fetown P. O. Que
Miscellaneous
CHICKEN ROOST - EGGS 1. How is the best way to make a
good ien - roost ? How is the best way
to make ben's nest? What are Parliamentary rules in put.
ing a vote by the chairman of a meet. ing a vote by the chairman of a meet-
ng, when there are a motion, an amend
nent, and an amendment to the amendsk all in favor, then all against the mendment to amendinent first, then putling the amendment the same, then the
original motion? If not, how would a riginal motion? If not, how would a
reeting vote down all three motions when not satisfactory, A SUBSCPIBER.
$\qquad$
$\qquad$ as soon as the speaker had again proposed the question. "Is it the pleasure
of the house to adopt the amendment to the main motion (or original question)? al daily. The dropping boards should be made of matched lumber, and should
pe 20 inches wide for one roost. and being placed eight or ten inches from the
Mall.
Most poultrymen prefer $2 \times 2$ inch Mrs. Bleecker (upstairs)-Bridget, hav,
you turned the gas on in the parlor. ag I told you?
The Sew Domestic Jewel-ris, mum:
can't you smell it? out of the supports. Allow nine inches
of perch room for each bird of the Rock
and Wyandotte class. eight inches for J.J. Ferguson, representing the J. Y.
Grifin Company, who have several large packing plants in the Canadian North-
west. visited Ontario during the past Cortnight. Mr. Ferguson stated that his
company was making plans to promote livestock interests in Western Canada.
If the work develops as anticipated, ontario breeders may expect to participate
in an increased irade in pure-bred live
$\qquad$ Alton, 111.. the other day, conveyed the
novel information that Joseph Junette, nove information that joseph Junetre,
who farms $a$ job ranch on the Alton
buffs, thinks he will engage extensively bluffs, thinks he will engage extensively
in duck farming, and educate the ducks
to eat "Just now." the story ment on to say, ".Junette is enjoying an income of $\$ 15$ a
day, from fifteen ducks. which he trained thy to clear potato patches of bugs. He put
od
the ducks in a pen and fed them on potato buys exclusively, after starving
them until they were glad to get the bug Junette tried them first on his own
fatch. which comprised several acres. The duchs went through the patch like a
neizhborhood scandal. After the per-
iormance :aste for other diet.
"The ducks are in great demand on the farms in. Junette's neichborhood. Farm-
frs are glad to pay $\$ 1.50$ per hour for

JULY 15, 1909
GOSSIP
 This promises to be a remarkable year
tor dear hacon, writes an Einglish cor-
respondent. Wholesale prices fespondent. Wholesale prices are alrendy
far in advance of those ruling last year,
canadian is quoted against 44s. to 50 os . Danish at 68 s . to
$735 .$, against 44 s . to 52 s . Last year we
7. had large supplies from Denmark and the
Cnited States, and prices ruled low-this
vear the exact opposite rules-supplies Alfalfa is very long-lived; fields in
Mexico, it is claimed, have been continuMexico, it is clamed, have been cont
cusly productive without replanting
oler two hundred years, and others Muree than a century. Its usual life in
more in and
the United States is probably from ter to twenty-five years, although there is a
field in New York that has been mown
successively for over sixt y yenra successively for over sixty years. It is
not unlikely that under its normal con-
ditions and with normal care, it would ditions and with normal care, it would
well-nigh t.e, as it is called, everlasting.-
From Coburn's "The Book of Alfalfa.: It is doubtiul whether unlimited pas.
ture may be considered economical, except
perhaps for brood sows. The proper amount of land to give over to pasture must neces-
sarily vary, according to its quality and sarily vary, according to its quality and
other local considerations, and the length
of time the lasture will sustain hogs,
ikewise 1.kewise, is dependent upon the climate,
quality of the crop, age and number of
the animals, and other varying condithat an acre of red clover should sup-
port six to ten hogs for three or four
months months. Alfalfa, the leading pasture-
plant ior swine, should provide, if of
$\qquad$
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$\qquad$
$\qquad$
$\qquad$ enterprise is an accomplished froct, the
public will probably require some en-
lightenuent oi this subject.

 cotland was of a certain parish in fell into a deep in the village, when he
There was no lad
fer thy which hole der by which he could make his escape
and he began to shout for help.
laborer paging looking downs.ing, hasked who he was. cries, and
The remarked, Weel, weel, ye needna kick up

Holsteins All
dau
OR SALE: COWS AND HEIFERS ages. Also bull and heifer calves including
agther and grandaughtersof Pieterte Hlenger.
Count De Kol, whose TWO famous daughterr

H. E. GEORGE, CRAMPTON, ONTARIO. HOMEWOOD HOLSTEINS $\left\lvert\, \begin{aligned} & \text { MAPLE HILL HOLSTEIN - FRIESIANS } \\ & \text { Special offering: Am now offering for first time }\end{aligned}\right.$ For Sale: Only thrify bull calves from
4\% R. O. M. coms ; some will
herd headers and sheme great herd headers ands; shome animalls. make Wreat
hrite for
prices and description. Station on the place. M. L. \&. M. H. HALEY. $\qquad$ springford, Ont MAPLE GLEN For sale: Only 1 bull, i1 months
Holsteins old, left; dam is sister to a 26 -lb



 ase him odvantege, as I have twelve of his
aus hiters in my herd.
G. W. CLEMONS, ST. GEORGE, ONT. The Maples Helstein Herd! Record-op-Mare Cows.
 at reasonable prices.
WALBURN RIVERS. Folden's Corners, Ont.
Lakeview Herd head- Count Hengerveld Fayne De Kol, Holsteins. the eNl by Bul in the world whose sire has 5 daughters averaging over


\section*{$\underset{\substack { \text { centre and } \\ \begin{subarray}{c}{\text { nilluwew }{ \text { centre and } \\ \begin{subarray} { c } { \text { nilluwew } } } \\{\text { Holsteins }}\end{subarray}}{ }$}


 P. D. EDE, OxFord Centre PR O. Woodstoof HOLSTEINS and YORKSHIRES
R. Heney, Brickley,

Northumbrrand countr.
Bulls fot for service, trom ows with
large records. Sows fit to mate, also young pigs both sexes, of the very best bacon type. Prices
reasonable. ${ }^{\text {Pl }}$ Buy a HOLSTEIEN BULL till
 ing strains. "Frairview Stock
ABBOTT. Harriletsville Ont. Holsteins $\qquad$
 also a few young cows and herifers for sale,
THOS. HARTLEY, DOWNSVIEW, ONT,

Broken-down Men


HO ARE OLD WHILE YO WHOSE VITALITY IS GONE, FERED, WHO FIND IIFE BUREAN位, sands of others. I can make the herves tingle with vigorous life, and the spirit of energy show
itself in every move of your Or. McLaughlln's Electric Belt My twentyeight years of study are shown in this grand appliance. You
wear jit with comport at night and and the ELECRICITY infued into the body
cures all Nervous, Kidney and Bladder Troubles. Varicocele, Rheumatism, Lame cures all Nervous, Kianey and Bladder Troubles. Varicocele, Rheumatism, Lame
Back, Indigestion, Weak Stomach, and all forms of pains and weakness. It
restores the life while you sleep, and must cure



You Run No Risk in Using My Belt. I Take All Chances Any man or woman who will give me reasonable security, I will send them
the Belt, with all the necessary attachments suitable for their case, and they
can

## PAY WHEN CURED.

The secret iof strength is plenty of electricity in the human body. Keep it
full and every organ will do its duty; pain and weakness will disappear.
 that is jeak.
The whole force of vitality in your body is dependent upon your animal
electricity When you lose that in any manner my Belt will replace it, and
I will cure youn







Life Is Not Worth Living
an the farm if you are not fitted up with good Storage Tanks. You can have all the luxury of city life for a very snall
outlay. Our Barn and General Storage Tanks are made of heavy galvanized teel of the best quality, imported from

Tweed, Ont.

Cattle Labels $\$ \mathbf{5} \mathbf{2}$ an of

 day. Sample frec.
Bownanvile, Ont.

## Brampton Jerseys

B. H. BULL \& SON

BRAMPTON, ONT
wool
Farnham Oxford Downs


 American Shropshire Registry Association.
E. T. CARTER \& CO. ${ }_{84}$ frowt st. E. Toronto. canada Fainview Shropshires We lop offer $\qquad$


heney 4 mandelt prbsmeryt

Martimer ter
Mortimer Levernas, Sec. La a Fayette. Indiane






|  | La |
| :---: | :---: |
|  | Yorkshires |
| 1904, - sweepstakes aged and junior herd, and two grand championships. Apply to: D. DOUGLAS \& SONS, MITCHELL, ONTARIO. Bell 'phone in residence. |  |
|  |  |
|  | H. J. davis. Woo |
|  | MAPLELEAF BERKSHI |
|  |  |
|  |  |
|  | smortaritisen |
| Sale: CHESTER WHITES |  |
|  |  |

 prevent from ging to seed.
ALFALFA FOR ESSEX COUNTY-
SIL


LX 15, 1999
"Summer Dreams."

er angler's heart.
To book has, wanted, as you see, the








pack
mas.
mas trip.
m.



0


Toe ot hooks both carse and fine, and

and buy apply of things. and 1 just

it not be as glad as when m was a

tit


work any culvert n be put to, mothing else yet made quite equals this new Pedlar product -Pedlar's Perfect Corrugated Galvanied Culverts. Only the Pedlar People in all Canada make a culvert of Best Billet Iron, in semicylindrical sections, corrugated un-
der enormous pressure (over 60 tons to the


PERFECT CORRUGATED GALVANIZED CULVERT

pretty hard to make what they've been used to-a Pedlar Culvert, for instance, than concrete or wood
or whatnot. But or whatnot. But
I feel pretty sure If eel pretty sure SEE it is, if you will just look ion the quessquarely before you undertake any more culvert conditching. Don't judge this NEW cull-- vert by anything you've heard about other culverts. MINE IS DIFFER-ENT-a whole lot different, and a whole lot ahead of any other. Write to my people and make them show you why and how. We're making
this in all standard diameters, from 8 this in all standard diameters, from
inches up to 6 feet, so your wants can probably be supplied. Write and ask questions anyhow.
entertain


Write Today For Postpaid Free Sample and Booklet 20 nenerbagricb
 MONTREAL

OTTAWA
TORONTO
${ }^{86}$ King Street
LONDON


"What else can he do?"
'"Now, you watch him as I take him up in my arms. See how he similes at
me, and notice how intelligently heme, and
breathes !
like a jumble of all the hard -sounding
consonants of the alphabet. consonants of the alphabet. Here are
four or five, as they appear one after the four or five, as they appear one after the
other in the directory: Zavvodoffiki,
Z other in the directory: Zavvodofiskl,
Zawerszenink, Zawidoski, Zawogowak, Zazangts, Zborowski.
Rev. Hamilton Wigle, pastor of Zion
Methodist Church, Winnipeg, ran into
WINNIPEG'S HETEROGENEOUS
POPULATION.
Methodist Church, Winnipeg, ran into a
Welsh name recently which he thinks in Welsh name recently which he thinks is
just about a record-breaker. A couple came to the parsonage to be married. The groom was Waiter John Huntingford, of Elstow, Sask.
"Where is your place of birth?" asked. $\underset{\text { Mr. Wigle. }}{\substack{\text { The groom }}}$
fairly groom rattled of a name which fairly knocked the parson over.
Finally he got him to write it down, and here is what appeared:
Llanfairp
Llanfairpivoth, wyrgyplogogerythwyrndro-
blellandisniogogogoch.
There are just 59 letters in the name


U
$\mathrm{J}^{\mathrm{NTH}}$ from har have ataluly leared "Our liriend on the Wall" from our Bulletin 1216 just what use the farm telephone really would be to you, you probably will keep on thinking that a telephone is a luxury not for the farmer.


Perhaps you partly realise the value of a telephone but imagine it takes a lot of capital and organization and outlay to instal a 'phone in a rural community


Send for Bulletin 1216 ("Rural Telephone Equipment") and you will learn that both ideas are wrong, way, 'way wrong. The Bulletin is free, but it is instructive. It tells-

For Bulletin 1216 Addiress
The
Northern
Electric and Manufacturing Company
Uniled
Mandtactarers and supplieri of In the copasistruction, operatilon ned mintenance of Telephhone and Power plants. Address ollice nearest yok.
MONTREAL Cor Notre Rame TORONTO 60 Esont Street W WINNIPEG s95 Henry Avene VANCOUVER $\begin{aligned} & 124 \text { Seremmon } \\ & \text { Strect }\end{aligned}$

-how to interest your neighbors, every one of them, in farm telephone service;

-how to get up a company, with very little ready money, to equip yourselves with the same good telephone service they have in the great cities ;-

-and it also shows you where, how, and why the installation of such a service on your farm will actually save

For one thing, the telephone will surely help you to get better prices for what you sell, and help you to sell it to the best advantage every time. A couple of minutes talk over the phone will post you as to how the market is that day. Even a daily newspaper could only tell you how the market was the day before.

## "Our Friend on the Wall"

If sudden sickness comes, with the horses far off in the fields at work, or the menfolks away, or nobody able to drive in for the doctor,-there's the 'friend on the wall' instantly ready to summon help. And help may mean life as against death. Because some illnesses develop to a hopeless degree in the extra time it would take to go and get the doctor.

## "Our Friend on the Wall"

Suppose you think of cutting your hay to-day because the weather looks tike holding fair. The telephone would as certain for you just what the weather man says the weather will be to-morrow. That might make the difference for you between. profit and a big loss.
"Our Friend on the Wall"
When the womenfolk are lonesome and want a chat with their neighbors-when you want help in case of fire-when the young folks want to get a jolly little party together quickly for a little fun-wher you want to know the outcome of some important event-in a hundred ways, every day of the farmer's year, winter, summer, spring or fall, the rural telephone saves, helps, economises time, spares trouble-and earns its cost so often over and over that you will know in a week after it's in that it makes money for you instoad of costing mioney.
Please send for Bulletin ${ }^{1216}$. Do that to day-it costs nothing to read it, and it will tell you a great deal you want to know.

