

Vol. XLIV.
LONDON, ONTARIO, JUNE 10, 1909.
goes a long way sometrmes, but a
CANADIAN AIRMOTOR goes a long way all the time on the farm. One customer writes: "Cost me ioc

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## Hiding Facts With Talk

Only Sharples Cream Separators receive the unskimmed milk through the lower end of the bowl. This makes Sharples Tubulars much faster and cleaner skimmers than "bucket bowl" machines. Dairy Tubular bowls contain just one smooth piece -instantly removable and no larger than a napkin ring.
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 Poultry llouses
Dampness and draughts are deadly
to chickens. A dry atmosphere and an even temperature are absolutely essential ta liealth and productiveness
in poultry. Poultry houses roofed in poultry. Po
and sided with

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 have protection not only a against windand rain, but also against extremes of
temperature, dampness and humidity. temperature, dampness and humidity.
REX Roofing is a non-conductor of heat and cold as well as being stormproof and wind-tight.
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because it is made of dense, long fibre because felt, thoroughly impregnated
woil with weether resisting compounds. Any farm hand can put it on.
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power is required. in
Thousands now in use, giving the best ot


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That's why any roofing buyer gets a strong hint here

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Your can rest easy nights when you Oshawa-shingle -and save money, as well.

TI Any roof covered with Oshawa Steel Shingles (Guaranteed) is proof against lightning
building so safely
TT That particularly matters to you, if you own barns, for during 1907 from the most accurate and complete figures it is at present possibl to compile, this is what the electric blast cost the farmers of this continent

Lightning struck 6,700 farm buildings in Canada and the United States.

Fires, caused by lightning, destroyed property valued at \$4, 123,000 Lightning killed 4,457 head of live stock
Lightning killed 623 human beings, and injured 889, nearly all dwell. ers on farms
II Insurance men declare that more than forty per cent. of all barn fires 4 are caused by lightning. Barns are peculiarly subject to the light ning stroke, because they contain hay and straw that constantly give off moisture by evanoration. The moist exhalations from horses and attle also attract the bolt

## OSHAWA GALVANIZED STEEL SHINGLES

## A new roof for nothing if they leak by 1934

II Yet for a cost of less than five cents a year per 100 square feet you 1 can safeguard your barns-and your house, for that matter-agains lightning. That is the real cost of Oshawa Steel Shingles (Guaranteed)
(I] More than that: When you Oshawa-shingle any building you have a that is absolutely wet-proof; absolutely wind tight; absolutely fre-proof; and that is GUARANTEED to be a good roof for twenty-five years without painting, patching, repairing, or bother or fuss of any kind (I. Anybody who never saw steel shingles before can lay an Oshawa shears, and no guide but the simple, easily-followed directions that come shears, and no guide but the simple, easily-followed directions that come with the shingles. (1) Anybody who has a building worth roofing right can afford the ONLY
 (If That is the story in brief : Send for the free book that tells it at comes a sample shingle, to show you what wees along. With the book Oshawa Steel Shingles, (Guaranteed) are made of 28 -gange heavy sheet steel, heavily galvanized on both sides and all edges, and fitted with the ledlar four-way lock that makes the whole roof one seamless, whbroken sheet of tough steel-a roof that is not only guaranteed for twenty - five years, but good for a centur
(1] Cet the book, and learn about "Rooting Right" Send for it now-

The PEDLAR PEOPLE of Oshawa ${ }^{\text {Estabisheded }}$

MONTREAL OTIAWA TORONTO LONDON CHATHAM WINNIPEG VANCOUVER OUEBEG ST. JOHN, N. B. HALIFAX

# The Farmer's Mdvocate and tome Magazine 

LONDON ONTARIO, JUNE 10, 1909

EDITORIAL
Iprigation from Below.
There are two ways of irrigating land-fron y spreading water over the surface, is feasible only on areas that are favorably situated as to
streams. srrincs or wells and is wunaly expenive. Irrigating from below is practicable on any ut the most arid coils, and if not so effectual
as might be desired on grain and meadows, is ery satisfactorily so on intercultivated crops, such as corn and roots, und is cheaper, so that for nore profitable.
The beauty of it is that sutsoil irrigation is accomplished by Nature, Man's part consisting merely in protecting the moisture so far as pos-
sible from evaporation. In the case of interultivated crops, such as corn, roots, vegetables and fruit, this is very easy to do. The means ie ready to hand, being nothing more or less so to manipulate the surface two or three inches, as to preserve it, during as much of the time as possible, in the form of a dry-dust mulch. In
$\qquad$ Few of us comprehend "hat an immense na
tural reservoir there is in the soil beneath our tural reservoir there
feet. Year after year there falls upon the land feet. Yeart arter eat snow and dew equal to a depth of water amounting to a litte over t.te
feet, at Guelph, running up to something like iorty inches at Bay View, Prince Edward Island. The annual precipitation varies somewhat, but these are apyroximate figures. There are some localities in Canada where the averata
lower than at Cuelph, and higher than at Diew, but these will answer for purposes of calcu lation. An acre of water twenty-five inches dree would measure up to
and
ans.9
tons; while an acre forty inches dee 250.. contain 907.500 gallons, or 4,537 tons of
thal what do we mean by abundance of mois (or crop-procucing purposess, We imply st of all, enough to maintain a plentiful supply
capillary moisture in the root zone, in order facilitate the elaboration and solution of plant ood. Plant roots take up their nourishment in dilute solution, the surplus moisture being transpired through the leaves. It has been deter;
mined, by careful and extended observations in America and Europe, that almost any of the cu wated crops withdraws from 300 to 500 tons on roduced. We see therefore, that, while almost any soil in Eastern Canada may be supplied from elow with plenty of moisture to mature abun dant crops, so long as the supply is reasonably ell husbanded and protected from evaporaton here is need to guard against waste of

For practical agricultural purposes, the physic al condition of soil may be improved, and the percentage of moisture available to plants inensed by drainage, tillage and manuring. The ing against drouth, would make a chapter in itEelf. Sufficient to state that this is widely recognized by scientists and good farmers. Humus
decased vegetable matter, resulting from de composition of barnyard manures and crop resifues, contributes to the sponge-like nature oil, greatly increasing tas and moisture. But apart, altogether, from drainage, manuring and ordinary tillage, we have a wonderal and simple means of conserving tro uplain 1 trops carillarity cipnifos the at As applied to soils, capillarity signifies the ar he moisture of contiguous wet ones. By capilarity. moisture may be drawn either upwards or aterally throuch the soil. Tt works most freely soils the particles of which lie comparatively lose to each other. An enormous quantity of water is annually drawn to the surface of our Velds by this agency, thence evaporated thy sun and find. It represents a waste which, in periods of Irouth, is most serious, and a considerabte per-
centage of it can be avoided by simply loosening
$\qquad$ Cerrupting the upward movement of soil mois-
lure and protecting it from the evaporating inture, and protecting it from the evaporating inHuences above. King found, by pot experiments nel
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$\qquad$154 ions, and 426 tons, respectively, and, on
irgin clay loam, the quantities thus conomized
ere, 1,154 tons by an inch mulch, $1,1,34.3$ tons
a wo-inch mulch, $1,525.8$ tons by a three-inch
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ing roots multiply near the surface, while the iliage more completely shades the ground. The ime to cultivate is as soon after each rain as the ground has reached a nice crumbly condition, o that it may be broken up into a loose, dry surface mulch-the looser and drier, the better With thorough surface cultivation, a fair crop of dder corn could be grown on loam soil, without

## Exploring One's Ignorance

year, an elderly man was once heard to efaculate, in a spasm of new wrinkle in doing a familiar turn of work Presumably, he meant that he could learn about one new thing a year. Needless to say, he was not a well-educated or widely-informed man, els he would have said, "I can learn every day." The men who regard their knowledge of any subject as self-sufficient, are usually the ones who know the least about it. They do not know nough to realize how little they know. They have never explored the depths and ignorance. They grope about with a their own ignorance. They grope about with and all-unsuspected treasures of knowledge, thinkand all-unsuspected treasures of knowlige, sheds, hat they have penetrated to the outermost bounds of their particular spheres. It is hard to instruct such a person, since it is so difficult for him to realize that there is anything in his ine left to learn. Let him once get interested in his subject or occupation, and begin reaching out or more knowledge, and he will find that each tep leads to a wider zone beyond, and, from state of self-satisfaction, he son cowledge ad noed if he ming and so far from being surprised at discovering one or $t_{\text {wo }}$ new points a year, he expects to learn a great many every day. This is the ex perience of observant, open-minded, studious read ers and thinkers. The more they learn, the more they find there is to learn.

Visit the College Again. The :oreroing little homily has been suggested gricultural College a year ago. He said he had been coming to Guelph on these annual excursions for eleven years, and every time he learned something new. He was wiser than some of his fellows. There are some who go once or twice, and think they have found out practically all there is to be seen or heard, when the truth is that it requires half a dozen visits to show one what a vast field there is to cover, and how much intormation remains to be gleanca. Arultural college acion is no adequate excuse for not going again. 1. were extreme pressure of work, indeed, that should justify a farmer in failing to take reweated advantage of the annual excursions, which not only furnish opportunity to see these instituitions in their best attire, but to learn definite duta from observation, conversation and talks given by the staff. At the Ontario College, for cxample, days might be profitably spent on the hand, to say nothing of the live stock, dairy, pooltrs, horticultural and scientific departments, the library, laboratories, and all the rest. If by so doing, one can assime experiments, to substitute for the impres-

THE FARMER'S ADVOCATE
the Farmer's Advocate and Home Magazine
the Leading agricultural Journal in tha



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& \text { apart, toon }
\end{aligned} \text { trom all considerations of price }
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the farmers advocate and home magazine







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 When made otherwisc we will no
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ALLCOMMUNCATIONS in reference to any matter connected vidual connecled wit ine ppper.

Adress-THE FARMER'S ADVOCATE

his guide, and drop a few scales of prejudice an great deal more in knowledge and satisfaction than can be made by spending the day grubbing min the bounuaries of his own rne ech needs a broader outlook, a deeper understanding keener ohservation, more active thinking, and the power which knowledge gives. One day a year at the agricultural college is the least that an farmer owes himself. And it his wife cannot wa accompany him, by all means let him take th

Certified or Clean Milk. The campaign for pure and wholesome milk re germ-fice supply without resorting to pasteuriza side Farms Dairy, referre! to on another page call into requisition
points are worth considering. Must of them cur be followed at least in part to advantage. In speaking of the
sidered necessary, the manager sass .". Xower has big increase has immentiately shown itsilf in the corporation, in which he will be handicapped iron tention to cleanliness in feed and stabre, elimation milking and the milk and cream means a prod uct of higher quality-one that will keep longer and command a higher price on the market. the local dealer will not pay a reasonable figure it is not difficult to find special avenues of dis decency demands cleanliness. Mifk is the most nith ly handled of all human foods, tro excestint canne meats. The methods could be tupheved terill on ent correspondingly reduced, without any adir tional expense to speak of, by just taking pains A wash dish and clean towel in the dairy, a plentiful supply of clean water used to rinse strainers and pails frequently, proper attention to food supply, ventilation and light, with cleanl| ness all along the line, are what is requircward of satisfaction ${ }^{\text {then }}$

Remedy for Trusts and Combines.
In my last letter I endeavored to point out
he widespread existence of trusts and combines among our protected manufacturers, their methods of operation, and the results that follow from their existence. That these resus an
onpression of the laboring class, the robbery of oppression of the labico the serious handicapping of our great basic industry, agriculture, and the creation of an aristocracy of wealth-are serious
menaces to our national life, no thinking person will deny. one of the greatest needs of our nation at the present time is that a remedy shall he found for these conditions. It is my purpose
in the present letter to point out the different in the present letter
remedies that may be applied, with something of the merits of cach.
So far as I can see there are three ways in
which we can deal with combines in restraint of trade among our protected manufacturers. First, we may, by law, declare their formation illegal,
and punish those who may form them by fine or anprisonment. Second, we may appoint a com mission, siminilar in powers whe the prest its con-
way Commission, which shall take into
Wideration tall the conditions surrounding each of Tour manufacturing industrics, and fix a seale of
orices which shall be binding upon them. Third, we may, where these are shown to exist, throw
off the present protentive duties, and, by exposing the industry afrected to world comptition, at once crush the combine, ifet us consider briefls
the merits and demerits of cach of these methods. the merits und demerits of cach of these methoos
The first way mentioned, the prosecution and punishment of onfenders, is an already existing
fact, so far as the laws of Canada are concerned It in now illearal to form any combination in re straint of trade, and the ofience may be punishe
heavily by fine or imprisonment.
One woul think that this would settle the matter, and tha by this means the offence would be greatly less ened, or entirely wiped out. The offenders ar
respectable citizens, not in rebellion against law respectable chaly triminal class is, and a very fevy
as the habituand
prosectutions and convictions should eradicate the practice. $\begin{gathered}\text { But there are practically no prosecut } \\ \text { So }\end{gathered}$ is a dead letter. The reason is obvious. Privat individuals camnot afford to prosecute, and the Government will not
It is worth while to consider the difficulties that meet the private individual in prosecuting
wealthy conthine. In the first place, there is th dificulty in proving its existence. A man map some particular case, but he cannot, without incurring great expense, get together the maternay faw. Then, so lons as money plays the part tha

a series of prosecutions against combines, whos dity trade, profits can be increased by more at in ramifcations may, and probably do incluade maty
statement made by Mr. Vectypricece on the oc
who would not only be injured financially
would be discraceal by the result. Thus would be disgraced by the rest Thus ariven to anue, as it now is, a dead letter, and
will continue utterly powerless to accomplish the end for whic
thas made.
The second proposal, the appointment ommission to regulate prices, has some recommend it, but is, I fear, so hopeless. plex in its working as to be impossible. could have an incorruptribe, all-wise and ircle
conumission, that would be unapproachable in integrity. integrity, "ould aould be prepared to revise it findings with every change in the wages of labor cost of waw mould have a periect means of con counting combines. But such a commission is int possible. No body of men could be sufficiently iamiliar with the varicen es industries. Thiy woul be constantly the prey of misrepresentation on the part of those appearing before them. Four ther, their work of raw material, rate of wages or prosperity of the councry and complex as to be
revision, $a$ work so endless and revion the power of man The idea of a price commission, in spite of its seeming merits, we
must so far as I can see, place in the list of in must, so far as
effectual remecies.

There is but one remedy left, the removal of the protective tarifif where a combine is shown to simple remedy As we have pointed out before combines find their origin in a protective tariff and operate under its cover. It alone enabled nem to reap a proft the excessive profits reaped in this way it would be impossible for them to cut prices below the actual cost of production in order to stamp ouce puts the combine out of business, by placing prices on the basis of the cost of production in the world at large. There is then no longer any-
hiny to be gained by restricting production or tamping out rivals World competition is too trong to be wht by any combine. Thus, by admitting world competition, the power for evil io orce taken from the commines, whe ar This way of dealing with combines, which 1 sink 18 the only elfective one 1 Already on our
statute books. Section 12 of our present Customs Act empowers the (iovernor-in-Council,
wherever any investigation in any court shows the existonce of a combine among the manufacturers or dealers in any article of commerce, to
Further, if enpowers the Governor-th-Councile to commission Judges to investigate the existence of combines,
and, if these are shown to exist, the duty may be immediately removed. Ifere it would appear. we have a perfect remedy; but, so far as anit
aware, it has never been used, though the exist ence of combines is generally admitted. The
reason is plain. The
initiative in the matter
 other words from the leaders of the party in
power. statute upon the (iovernor-in-Council could not fail to injure some of the friends of the part
powery therefore. the power is never exercised It is plain to the that if any effective remedy is to be found the mattor must be taken out of
the hands of the politicians. It is equally plain, since combines are brought into being by the his Goverted by our national covernn detection and control. To do this effectively a permanent
and indenendent commiscion should be created, and independent commission siourd
whose duty it should be to investigate the existence of conthines, and which should have powe the
where these are shown to exist, to remove thed or protect ive duty on the articles manufactured or
deant in by the conbine. Nothing short of a will be eflicient. "hich such a conmission might well perform. It "in "wol-known fact that many industries whic
 a commission us I I have described investigate the Winturns, not onls of those industries which ar It mould summ reasonable, since the na

Free Text-book of Nature Tauranga, New Zealand, shortly before leaving ior Canada, V. W. Jackson, Director of Agricul ture and Nature Study, delivered himself of these remarks, which we endorse and reproduce: do with the lack of interest in the primary in dustry of the country and the consequent rush to cities. Both from a practical and educational point of view, the growing of plants, experiments with manures, analysis of soils, habits
of grasses, weeds and clovers, the structure of farm roots, the lives of insect pests, the drawings of flowers, fruits, leaves, etc., the measurements
of plots, yields, the testing of milk, and the pracof plots, dairy arithmetic, is a tit and proper ele mentary training for country chuldrea to receive. An eots are more important than Latin roots, and King Corn more real than King Midas. We quar-
rel over free text-books, and leave the free book rel over free text-books, and eave to master the
of nature unread. We strugtle to master
Wers Wars of the Roses, and fail to conquer weeds of
our garden. It is safe to say that not half the weeds of the district are known. We debate over thoths to ruin our apples. We define terminal moraines and glaciers and camnot tell whether a Comato is a fruit or a vegetable More than home, and we can only learn as experience permits us to interpret the new by what we already
know. Therefore, let us add to the common know. things about and make education sound and helpthings about and make eduration sound and defend
ful." Mr. Jackson said he was there to dithen be the little things which the teachers would be which the children of the Dominiom would have sarily be given little things, but these might that made it monotonous, for no occupation has sciences variety of material and is the purpose of agricultural education to weave a halo of interest around rural things, and thus malke country inf nore pleasant, education more soumd, and the in-
ividual more useful. Agricultural education is justified on both practical amd educational
grounds, but it is the practical side which the

## HORSES.

## Horse-breeding Discussed.

## At the regular meeting of the Brant Townhip Farmers' ('lub, held at the Prospect Hill choolhouse, on May 11th, the subject of horsereeding was discussed in sucth an that every ne of the nembers present was benefited. That ,y subject is to-day an importamt ome, was shown lue the large attendance of both mezmbers and lo thers. It should interest every farmer. The treeding of high-crass, as any belonging to the farm. The demand for really good horses is hever filled, and there is allways a good price vailing for them. Five humdred dollars for a wammy horses is considered a good figure, and it not standish, who hore is pait for one horse. ins. She vas present at our ineeting, memtioned a horse That was bought at a livery stable for $\$ 180$, and suld again for $\$ 800$. Robt. Richardson, and his long experience in the horse industry made his remarks very interesting and valuable. The following is a synopsis of <br> $\qquad$ ". Horse breeding is attractung athention nowa tays on account of the ready sales and high prices hat are obtained, Years ago, a torse was a horse, and brought a horse's price, and no parhorse, and brought a horse's price, sad horses ood horses, the farmer is devoting his attention (i) danger of oversupplying this demand. High lass horses are scarce, and high-class animals should, or. The production of Oh. The production of high-class animader. The irst thing necessary is, of course, a good brood hare, free irom blemish. as curb, spavin, ett. vy horses are more desirable for a farmer to a. since they are easier trained and handled s. since they are easier traimed and hanal true any type, and, therefore the offspring seldom sa a good price". Mr. IRichandson, with many sen a cross between a Clrdesdale and a seen a r seen a cross between a mowring under any heron fit to enter the sher Stay with the breed of the mare. and do

tgain and again stallions of the same breed. Handicaps of Hopse-breeding. brood mare, and selling the colts, is doing mor
the malecting the sire, choose one suitable to mare fully developed. By all means, use a eristered horse, and do not let the price influence The brood mare is better working than idle, as exercise is absolutely necessary. The work, of
ourse, should not be too exhausting. Give he plenty of exercise till fooling time, and then let
per ker rest. Brood mares seem to require a great ieal of salt, so always have some ready where sh.
can help herself when required, but never give it
n her feed.
When foaling, try to spare her all the labo possible, but be sure that you do not pull on the wrong leg. When colts come wrong end first, may mean the death of the colt. Teach the colt to eat grain before weaning time, so that wean ing won't check its growth. No apparent differ ence is noticed in whole or chopped oats. If the
mare is worked hard, wean the colt at three months: if idle, at five months.
Many horses are gluttons, and are overfed
Horses should be fed three times a day Horses should be fed three times a day, at regu-
lar intervals, and idle horses should stand before lar intervals, and idle horses should stand
an empty crib two or three hours before each
meal. The habit of throwing some hay into the crib whenever it is empty is a poor practice
few roots in the evening are much relished

$$
\begin{aligned}
& \text { Mr. Richardson says he never does anything for } \\
& \text { the prevention of joint-ill, and thinks, if mare is }
\end{aligned}
$$

the prevention of joint-ill, and thinks, if mare is
in good condition, there is no danger of a colt
contracting the disease. See that navel is tied
good and tight, so that it does not leak, an
put something on to dry it up as soon as pos


Baron Ian Two year-old Clydesdale stallion. First in class and reserve champion. (ilasgow the muscling can be fot from the gaskins walter Rowand next addressed the meethy on should be sufficient co cause a bulging or ni light horses, but, as Mr. Richardson had covered rounding of the parts, rather than a flatness.
the subject of the breeding of horses, there was Another reason for lack of success is the want
 ing, care, etc., apply to light as well as to heavy show-rings iow unconcerned as a of geldings horses. However, what pertains to light horses ing around as unconcerned as a of geldings
can be summed up as follows. Farmers must se- while training has doubtless considerable influence lect sires to suit their mares. It will not do to on the docility of stallions, ireeders will do well breed light mares to heavy sires. Light horses to avoid a stallion having the complacency of have several advantages over heavy horses. whey wish my readerso to confound virility and life are surer at foaling time, or light, will outwork a with bad temper. In plenty of Thoroughbreds we little better, and, if not too light, will outwork a with bad temper, An phe
heavy horse, when endurance is eonsidered. The find the former characteristics, the latter is comheavy horse, when en en many breeds. Unfortunately, bad temper high prices is they are harder to train and into shape for city trade than heavy horses.
Dr. J. Standish, whom the clul, is fortunate enough to have as a member, was present, and approved of all that had been said for both light and heavy horses, and said, if anythng's modests. silect sire for the breed of horse that you want. lireed to the best horse. Feeding well and wis as has as much to do with breeding sire is as neces-
breeding itself. Fixercise of the sire desire to breed, keep at it. When you want ponies, get them as small as you can; while, if you want draft horses, breed as large as you
can. Pr. Standish thought that, for general farming, the breeding of heavy horses was the and handling.
 the good indication of


## ditor . The Farm

Market reports continually state that drafty not equal to that demand. The same obtains in
no the United States, despite the influx of Terche rons, and, to a lesser extent, Shires ; so that, it cannot be said that any one breed is, or is not,
altogether responsible for existing conditions. It is a rare thing, in Canadian show-rings, to see, speaking on the average, the home-bred drafter
give the imported aninial much of a run for the
Three contributing reasons for the seeming inCeriority of Canadian-bred drafters are: (1) The lack of good mares, (2) failure to work mares,
regularly, (3) the failure to stick to type in stal-

The lack of good mares is more apparent than has There are many in the country, but there for them that should be shown, if the best reults are hoped for. Many mares with some which blood have been used for breeding purposes, onsequence the have been stinted, ana, as a High prices for mediocre stuff have resulted in - erything fertile being bred, and, as a confor a live the hit-and-miss method of sowing veeds. The enrollment regulations of the Prairie Provinces are doing something in the way of disseminating correct information regarding the breeding of horses offered for stud purposes, and the knowledge thus horse-hreeding community of farmers as a means
of getting rid of unsound horses, or horses with of getting rid of unsound horses, or horses with
fictitious or bogus pedigrees. Unforitunately, there are too many apparently well-bred, but undersized, poorly-built stallions now made use of
as sires; and, while this continues, the influence

Regarding failure to
ick to type in stal stick to type in stal-
lions, probably the first item under this charge
is the use of undersized stallions, of under-
which while up to weight, by
means of heavy feeding means of heavy feeding,
and, therefore, carriers and, therefore, carriers
of useles fat, are yet
not, strictly speaking, heavy-draft horses; ing
this, of course, we see
the fallacy oi taking the fallacy of taking
weights as the sole heavy-uraft classifying sone and muscle are of than lat. If there is he right quality and will. be no lack or or weight. Speaking gencrally, a draft stallion
should measure at least should measure at least
111 inches below the
Wnee, and an inch more of
be ice 號
$\square$ asily bred or developed hy incompetent grooms.
To my mind, a flood of effeminacy threatens To my mind, a flood of elfeminacy threatens
engulf both human and animal life to-day, largely due to, in the Sormer, the hunger for ease, and in the latter, the life of ease. Effeminacy
in the highest type of animal world has transin the highest type of animal world has trans-
formed life, and the struggle for subsistence. rrom a fight in the open, with tweapons displayed,
into a contest in which dissembling, craft. cruelty into a contest in which dissembling, craft, cruelty nd the ambush a vail most; while, amongst the
lower forms, the domesticated animals, the results are ioss of individuality, virility, vitality, and lowered resistance against disease, the sub-
stitution of fat for flesh, and the consequent fallstitution of fat for flesh, and the consequent fall-
ing into disase of the secreting structures, such ang into disuse of the secreting structures, such gradual disappearance of distinction tempera-
mentally, between the sexes
Muscular tissua mentally, hetween the sexes. Muscular tissue
formance repeated frequently if itality is to be
preserved, and atrophy (wasting) avoided. Work preserved, and atrophy (wasting anciced for all
necessitating physical exertion is needed
the muscles of the body, from the heart down, the muscles of the body, from the heart down,
if a steady stream of blood is to be supplied the reproductive organs, and virility is to be maintained. It is important, in maintaining size,
avoid the sacrifice of quality for roughness coarseness; quality and ability to wear well ar inseparably matel

The Money-making Clydesdale.
Editor "The Farmer's Advocat " titled, " Improving the Clydesdale.". With your permission, 1 I wish
arguinents
argunents brought forth.
At the Dominion Fair, at Calgary, last summer, were several horses in the aged class (Clydesdale, , weighing over 1,900 pounds, which is get-
ting somewhere near the draft-horse scale. The article mentioned above spoke of four objections
which the Americans had to the Clydesdale. which the Americans had to the Clydesdale,
compared with the l'ercheron, vi/ Lack weight, excess of hair, white markings, lack oi
crest and carriage. garding lack of weight, it is true some Clydes darding lack of weight, rent years which lacked weight, but the only reason they did win was on
account of excessive quality, not merely in legs account of excessive quality, have all seen draft horses weighing around
which could outlast and outwork horses weighing 1,600 pounds and over, but lacking draft-horse
conformation. Scottish breeders in Scotand were among the first and largest exporters of
draft horses to the colonies, and they found that a medium-sized, active drafter was more servic
able in colonial work than a heavier horse with
$\underset{\text { The }}{\log g \text { gait. }}$ second objection is not worth considering. The feathering of a Clydesdale is an ornament to any drafter, and much as some men say
they don't care for a showy tean, I notice, when a bunch is corralled on a horse ranch for homesteaders' and draying companies' inspection, the horses with white faces and white feet, with lots of feather, are invariably selected first.
The last objection is only the creation of The last objection is only the creation Baron's
morbid imagination. The great horse, Bat
Pride, is typical of what the Scottish breeder is norbid imagination. What the Scottish breeder is
Pride, is typical of whe of
aiming at. Of course, all Clydesdales are not what Clydesdale breeders consider nearly perfec-
tion, but the majority of winning Clydesdales tion, but the majority of winning Clydesaates
have a good, high crest, with a high, proud outlook, and, taking the article in question all around, I am afraid that the writer has become
rather alarmed (unnecessarily) regarding his favorite breed, possibly from hearing considerable
orot air from some American neighbor re garding the Tercheron horse. The Percher:on is a
good draft horse, and he is becoming more rangy gand lighter in the middle than he was some years
ago, but some Americans out here can't see that, and make a person tired talhing of "down in the
States." if the Americans want Percheron horses so hadiv. hy all means athed with several who are now breeding to (")ydesdale stallions, in preference to perchern
sires. The best and final test of any hreed ") horses is how they sell, and the way the (Whdes
dale horse is selling, even to Americans, who es cuse themselos hy saying they wish they could

Some Good Unregistered StockGetters.
Editor ". The Farmer's Advocate" " I am very much amused at some of the writers
who write re entire-horse legislation. 1 do firmly
believe that the Ontario (iovernment is wise believe that the ontario covernment is wise
enough to let such matters alone. It is always some fellow who is interested in getiny some good-for-nothing, registered or imported horse that he owns himself a greater share of the trade
than he is entitled to, that does the shouting in this case, or some big importer who has been mak-
ing money so fast these last few years that he thinks he can get legislation to suit himself. Ontario people will not alide such a compulsory
law. Durs is a free country, and free and intel ligent people, not a mixed people such as are in some sections of the West, where thes will abide
by almost any law. We also have nll classes of by almost any law. We aloo have all classes of
neople, from the Indian, to what is called ty some people, from "he "ord" oo "high much in muck," Well, the English Cord drice horses, and we want for
they all own and
them just the kind of horse they want, and them just the kind of them. We have here. in Fast simene, around Flm ale, and to the north
believe, as fine a lot of cntire horses as there i believe, as fine a lot of entire horses as there is
Canada. Take the Clyiesdale. the Hackney
the Standard-bred, th. French horses, and th
business at a straight price, and are
stock. We have had some horses th
in our country that were not reciste
stock. We have had some hot reses that hated, yet, wr.m.
in our country that were not registere they would do a fine
they only back to-day, to
trade. Now it. would certainly be a shame to trade. Now, it wou
castrate such horses sould certainly are in the business that are endeavoring to get some kind of legislation to suit themselves, so
that the may enrich themselves, by making the people come to them. Those men who handle the cheap stallions to-day, and who peddle into every farmer's barnyard, are having a
hard time, and they can't make it pas. It costs hard time, and they can make torse as a goorl almost as much to keep a poor anse Now, if
one, and the people are finding it out. Now
the (Government wishes to do anything along this the (Government wishes to do anything along this
iine of legislation, if they would take a few thouiine of legislation, if they would take a few thou-
sand dollans of their mones, and, rive to the editor of "The Farmer's Advocate," and send
those fellows who breed to those cheap horses some food reading matter, and stop those others shouting about castration. liewnse fee and Governshortly. JOHN STEWART.
Simene Ont.
isote. A system of stallion license or stallion ISote-A system of stallion license or stallion grade stallions that had proven themselves good
The Colt and His Feet
Careful attention must he pisen to the feet ol
Well-equipped Cattle Stable
Iu many particulars, the catte barms ath ore
ed to advamtage in prarming for
aution has been taken to provide periect venti-
htion, and to insure cleanly conditions through-of facilitate every operation are installed.
the cow barn, in the bull barn, and in the steprnathe cow barn, in the bull barn, and in the steer
har, as well as in the feed room, are all on the
came level. The stands or tals,reglected, show about the same height as thefed passages between rows of cows are six inchesmassages
he hichest part of the stand or stall floor. The
if cement. six inches high next the manger. Sevo
fol six inches deep next the passate
be center than next the mangers. so farilitatingleanines, and prevent the ans, water ly line thereong
ander thus insurine ans liquid manure running

 ..... the rate of
out one inch
their entire leng of thirty-five feet.
permitting easy
washing or fush- permitting easy
washing or flush-
ing out. The gut- ters, hesides being slightly lower on
the side next the
passage, have a
inches in their ntire length, isily handling asily handing
he iiquid part of
he manure, a well as helping
keep the cows
clean. The sides :lean. The sides
The main pas-
sages are aboutseven feet wide,
and feed and ma-
nure passages are
reared on hilly pround are wery liable wo argalar bomtom. The stands, ary in length, one standneglected, the foot and the joints above it he aboured with another, the longest stand beingcome permanently deformed, and the horse is bed, the shortest showing scarcely more than fourTo avoid this, regular attemtion must he paill varies in length from end to end of the row ; foro the state of the feet, and the horseman should instance, the longest stand is five feet nine inchesremember to keep the coes it a uniform, leneth at one end, and six feet four inches at the otherdown with a rasp, in order to encourage frog feet six inches at one end, and only four feet atressure. The first shoes must not he fitted to the other. All cement floors whereon cattle arelust never be used on a young horse, but botimish as possiblethould be treated with every indulgence until he Windows as large as possible, and asobstinacy must, however, he represed. trequent as strength would allow, occur in
has come into force throughout Fngland, with the doors open, reach from the ceiling to withinvarying results in different sections, though in the three fee of the floor, and are practically upperIn london a compromise has been effected, and parts. The main barn will accommodate aboutan insurance fund for cyery bullock or heifir pur- ulass, practically every foot of which admits thechased for slaughter within ten dass. Bulls and direct rays of the sun for a louger or shorterCows are excluded from the agrement. At Liver- period every sunny day. This shows about five
pool the dealers refused any warranty, and in no square feet of glass or light per head, which helpspool the dealers refused any warranty, and in no square feet of glass or light per head, which helpsfers sold without any warrant. At cocker- lresh air is admitted at the floor level by
found butchers came into force. It the suthe intakes outside the walls. The openingsFord (Manchester) market-one of the larmest in thtal 15 fout in arean, or about 24 square inches
the kingdom-no waranties were given, and busi- hral. The nutets are three in number, sit-

# THE FARMER'S ADVOCATE. 


 is ill the land having a hard-clay subsoll, being in Both incoming fresh air and outwinu foul Farmers, when drawing manure on fields, genair currents are controlled by dampers or kees. fact, the shipments at our point have shown an hills. Why are they poor? Because the surface it is thus possible to regulate the comprerature the therease this spring. of course, some farmers wash during heavy rains carries down not only

 cepting those that extend to the criling on the and some of them say "things" when they ari" luing land, and, with the larger surface-wash in much of the best soil is carried down southeast exposure; these latter are hinged in asked to pay $\$ 26$ por ton for shorts at the local the creeks and rivers to the lakes and oceans the mudit at about a fit duyrer anste by means of ports that shorts are quoted at 821 in Mont iure for cenerations unborn. People formerly chains. This permits of ample air currents when This plan of charging the furmer one to drew many loads of black soil, washed out of my warmulion of gir dirculd Water is constantly in front of the cattle in whaturowine in Waterloo county, at least, as and soil rempin in the fields chiefly the clear

dass the silos (rion tons caparity, near the mea Trom overhead A root pulper is located con
veniently. Roots have to be haulcd in aboul once a werk when being used in large quantities
Scales at the feedrom door permit oi casily weighing the feed, which is carried in certs run
ning on the floor: Some catluemen scem to coll
 no ow whead tracks for this purfyses, any more
than for the transportation of feed. Swingine stanchions are used, as they permit of
 ion over the chain
stanchios ins are used, stall divisions of a cumbrous or light-obstructing character are not necessary.
When chains are used. solid divisions are n"ceessary to prevent horned animals injuring each other
The divisions in use are constructed of it-1ncl boiler pipe. These are set one foot deep in the cement floor, rise vertically 21
angles, fleet, and extend horizontally i, feet, to screwed into a species of bracket bolted to the
6 -inch squared posts carrying the stanchion sup port. In the case of larke cows, these pipes rise 3 feet instead of $2 \frac{1}{2}$ reet, the horizontal reach
also brins 3 feet in length.
I.arge cows are allowed 3 feet 8 inches cluar between divisions smaller animals having 3 feet 2 inchess only.
The walls are of stone, shected inside with mones, is an improvement, the value of which in men scarcell le oserestimated. The upper floo has hwenceilect, and here ugain the eltret apon

Good Substance



 necessarily mean large site. Right thire is whert
ecetain men run away with themselves. There is ather of nature in this mechinery of the cows and temperament makes on it. A good cow mus be well and harmoniously developed, with arge yans, Mlenty of room for: the making of a calf, fo
 stann up and bear the strain of dairy work, morer that we will be led awas from this point, and
 tine, ite cow must have sulticient sulstance in
here make-up. Ther. must the no weanness haer make-up, Ther." mumon phrase, she must be " Strong cow.'" Hoard's Nairaman. is sactly tendinur
For sustained effort in production, and
abo all, for capacity to perform. and also tranmit the canacity for performance to off


## THE FARM

Twenty Miles of Tile on One Farm. and then ance a larger crop. Fall wheat seldom
 andertrained, the farmer can start seeding, as a fall whent on the drained land late in the fall

liknined land would
likely have enough
Cop. The fields on
the land not drained yielded 25 bushels per
acre, while the wheat on the drained area
yielded 43 bushels per acre, although the last was caught in
rain for about a, week before it was cut, and
many of the heads
hroke of lroke orf while cut.
ting,
coves.
cosing
oushels about There is pleasure
and
satisfaction in working on dry. Ioamy soil, where you
can use a seed drill can use a seed dril
without clogeing during the latter part of
March or early in April, rather early tha ${ }^{\text {in }}$
trying to mud it in near the end of May, us many are do then blame Prar, and things well, for this
state of altairs, when they are entirely to
b1ame themsely Truly, with regard to
underdraining, as well as many other mat ters,
man who helps the man , who helps him

 soil is heavy clay,
one year we sowed 44 acress of oats on
drained land, each
dreind weekday, fram Mach
woth to $28 t \mathrm{~h}$ march but abouth, and all
 looth harrow $\begin{gathered}\text { spring } \\ \text { while } \\ \text { but for levelling, we }\end{gathered}$

fold without have driled it | without $\begin{array}{c}\text { harrowing. } \\ \text { and we did drill some }\end{array}$ |
| :--- | and we did drill some

that way, and we had a good crop of heavy ed in proper surface druined, and, as drained lands dry quickly aiter 1 consider the time used in proper surface lor seeding, and not many lost days in getting on to digging an underdrain 3 feet deep, and there he land. The soil is in a much betere state to seed would be the cost of tile and plowing in of ofed n when in a porous and loamy state, due to under-, on drain extra; while
raining than it would be if in a sour and wet state, ditches, thereby leav,
requires fex, if any, as many fields are this spring, and such wet fields ing a sinooth surface for machinery, My experi

in for 12 to 15 years, and I feel that I am entirely to blame that 1 have still undraned (Mas, which are while the drained fields are green with growing crops for nearly one month, having begun this year on April 3th, and last year on April
4 th. Corn ground is in poor shape around here 4th. except where drained, and I am sorry t say that few farmers have done much here a draining. Farmers could soon have their farms
in good shape if they only made a beginning at in good shape if they only made a beginning
draining, by placing drains in the worst places a draining, by placing arains an they would soon so much benefi that they would likely keep on at it. Strange, the Although some may think moist in a dry drained land is crops will continue to grow better it than on other land. A good deal of heav. clay is hard in a dry time, because had been sodden with water, and
tramped on by cattle, or driven over with loads, tramped on by cattle, or while in a wet state. Farmers can take loads while in a wethat things over drained fields in spring, at times when they can scarcely
empty wagon over wet, undrained lands
empty wago grain is heavier and plumper, and of better qual grain is helieve hay is of better quality, and that there is more nutriment in it, as farmers know that hay off dry

I feel that in this article I cannot do this sublect of underdraining justice, so much can er in favor.
in its Farmers who have surface ditches decp enough o carry off surface water, often have to cut gorecrops in smalu sections, perhaps
shaped, because of the tor-deep ditches to cross shaped, because or machinery. My opinion is that no tile
over with mato drain should be less than 3 feet below the surface, for several reasons, They should be some distance below where frost goes, as the little water veins which form where water filters to the drains irains,
be destroyed by frost, or the water in where not deep, may be frozen until late in spring, thereby losing some benefit from drains at a particular time. Fewer drains ine from soil farther way, and "" what is worth doing at all, is worth I commenced underdraining by phacing 6 -inch tile in main hollows, and then 4 -inch, 3 -inch, and $2 \frac{1}{2}$-inch branches through or branches not quite parallel, but more by random, land dried much faster than the hills, and I had also some wide places between drains, or else mut them in, and on those muddy praces
would not be very good. The branches at first wered near trains, and not so good middle ways the spaces, the tions were filds, ran tinch, 5itu
 apart over hills and hollows, the ends of of
rranchus Soinine so to mains where they cami Contact with them Two rods appart wo
(eryy well I will give you the approximate cost of wh
oughlyunderdraining a 12 -acre field, most was done in 1897 , the larger mains having
in some years previously. There were 2 (Git2 of older main drains, and 18,568 feet of
drains. mostly small branches, making a toth 21,170 feet in a 12 -acre field, which we 1,11 from November 17th give the exact figures, but cost oi tile an cannot give the "xact ligures. $\$ 160$ to $\$ 180$, part 25 an part 30 feet apart, parallel drains, over hills an in hollows. The cost of the lator was abo $\$ 240$, and of tile about $\$ 22($, for 21,170 feet.
believe every drain is working will set, and know no reason why they shourd wot aing, I woun
do so for ages. If they were not work soon know it soon after rains, drain. much like pruning of be seen over every drain.
Making underdrains is much like pruming ar
und
(he several branches helping to keep main and pring, and field yielded 80 bushels per acre, outlet clear of sediment. heaped measure, clean, plump, very heavy oats, clay is in April or May, when days are long and while the next field, similar soil,
yielded 45 bushels per acre, not as good oats. An- clay soft, and the next best time in ()ctober,
November and lecember. The work can be done other year, plowed in a similar way, the oats by hand with common spades and shovels, and were about 100 bushels per acre. I consider $\frac{1}{3}$-inch iamo per We brought a 5 -inch on our hard-bottomed says with common plow, wain from a spring in one hollow to ease a 6 -inch is to plow below with subsoil plow. I purchased a main there, along the face of a hill, and through and heod subsoil plow many years ago from the he hill another way to outlet, a neighbor saying Watson Manufacturing ( $\%$. for $\$ 10$, which, by
hat we ran the water up hill, but by a spirit evel we had a fall of between 3 and 4 inches per narrowing handles, would prow 3 ft . deep. With level we had a fafter making holes in 5 -inch drain lix rounds up and down wil on cach side of drain,

if drain, then men
els can casily throw
he loosened soil out hine, hut it was mat
hot
jatisfactory, and did not go doown mor
than $2 \frac{1}{3}$ feet, whic I have not been
roubled yet with into tile, but have the case $\begin{gathered}\text { such being } \\ \text { elsewhere. } \\ \text { Some trees that grow }\end{gathered}$ best in wet places, lars, elm, or swamp
oak, might possibly oak, might possibly
block drains, but
do not think the roots of fruit tres
and many other kinds Burbank Plum Graft Three Years Old drains pass trees ment in the drain. We opened a J-inch main to- that are likely to block drains, it would be a good vater running therein. nd of main in wooden box of swamp oak, with place a deep covering of pood soil. We have Teat to hold end of pipe, or other durable killed grass on driveways in we have had very little wxperience with sedidoes not make as much difficence as some weopeet very little danger of this, if tile are joined toclow level. us long as you have plenty of fall, Lether properly. I had a law "aces , bere men of ell to have all the upper ends of mains "r whas broken pieces of tite, and the heavs rain ith ait

ur cherry trees were
dour times as
oout founere drained


vert was lowered to level of outlet, and we have thes are two or three vears old. I I have Lom- which The cattle in summer tramping it full of mud, thit hore seven heayy crops in eight years. Many higher. Where there is not much had, it is nec cor their own use last year. The trees were on miv A A inch tile will carry a larpe quantin of our ninesear-old plum trees, on well-drained
fie
much easier working of soil after whd not 12 acre fallbhove mentioned was considered poor, having
rented to several Ater draining, we plowed wit
but slanting along face of hills, party in the di- do all the work on a hundred-acre farm alone high ioundation, and \$30 ior latior. It cannor rection that the mains run, ut an angle of about is ior turnips, who harvested the bulk of turnips rust when painted and finished wih the compound 45 degrees with main. Will catch more water in ()xford County last fall-the tarmers or the inside. As for durability, it will last forever Drainage, Clover, and the Muck age systems, our clover culture, muck-heap and Heap.


Have Main Tilles Large Enough e chicf benefits from tile draining are akes less crop returns, and the iact that makes it possible to keep weeds in check, especial thrive best in land that needs draining. I have had experience with soils of clay-loam, tendency to Clay in places, the subsoil being clay, with odd
treaks of quicksand and hardpan. In these soils streaks of quicksand and hardpan. In these soils
1 make drains $2 \frac{1}{2}$ feet deep, and $\&$ rods apart. If 1 make drains $2 \frac{1}{2}$ feet deep, and 4 rods apart. If
they are deeper, it takes the water longer to get They are deeper, it takes the water onger
into the tile, and it costs more to dig than the
increased distance apart would be worth. A 2 cot drain will not draw more than two rods on

## the approximate to account the cost of out

 $\$ 14.00$ per thousand, $\$ 8.40 ;$ labor, 15 cents aI
I he draining will pay for itself in one to three ars. We have had no experience with fall less oubt it can be done with less. Outlet should e protected by plank box size of tile, with cross (ires if large tile. We have used nothing less In a fairly lovel field, some We prefer running smaller tiles to main nd laterals, as a drain will draw 2 rods, and each branch. Nitching may be done at whatever season a erson can get at it; if the land is dry, sepyer made of old cultivator teeth (without plates), olted to a plank, to loosen earth; 8-inch shov-
Is and draining scoop, spirit level, and 200 feet
of chalk line (O. A. C. drainage directions). We it chalk line (O. A. C. drainage directions). We
low lirst, and use the digger with horses. diment. We trouble with the tile filling with to cover all openings in wer with 2 inches, at least, of surface mud, Chich will not wash into tile. I would advise where necessary, large enough, though the extra size may not be needed more than once in two or han ears. A wet spring like this would mor
han pay difference in cost. Would advise hav ing. leverls taken by experts from the O. A. C., as han made un hy knowing what grade you have each drain. knowing what grade you have

A Township Road-improvement Competition.
SPLENDID RESULTS FROM THE USE OF THE SPLIT-LOG DRAG IN LINCOLN CO., ONT.

| A Township <br> SPLENDID RESULTS FROM <br> In sowing the seed of rural progress, one must lose many bushels upon the | Road - improvement <br> THE USE OF THE SPLIT-LOG DRA <br> Harbor. W. 13. Rittenhouse is a retired farmer fif means, who, having some three years ago 10 his son, was in a position to give special atention to the mile of road which he undertook to $\qquad$ earth road, consisting of clay at one end, run- to sand at the other. This road was badly heed of grading and ditching, being almost flat How, disk and drag, he graded this road in hroughout the summer in smooth and kept tion, making almost an ideal earth road. The hree successive seasons during which Mr. Ritten house has been at work, and can personally vouch for the improvement that has been effected, and me admirable condition in which it is constantiy ihe township council paying for the tile, and $\mathbf{M r}$ Rittenhouse, with a few of his neighbors, doing OW of tile still interferes slightly with the conour of the road, it is not too much to say that But the improvement of this one mile of road as not on the road, but on the road-maker. It talked roads, written about roads, campaigned for grood roads on the Farmers Institute platform: his own heat, dragging stretches which needed | Competition. <br> G IN LINCOLN CO., ONT. <br> lile drainage and the split-log drag are the two means he emphasizes as the main solution of the carth-roads problem. Gravelling and macadamizing are all right in their way, and, as evidencing his faith in metalled roads, he has drained and macadamized his farm lane, at an expenditure of $\$ 500$. But, for the great extent of our highway mileage, he believes, with 'T The farmer's Advocate," that metalled roads are not yet to be recommended, they being too expensive, not only to build, but to maintain. With the split-log drag, the maintenance of earth roads is simplicity itself; the cost need not exceed $\$ 10$ a mile per annum, while the results are first-class roads throughout nearly the whole year, and in summer a better road for ordinary traflic than even ideal stone roads: better because not so bard, hence easier on horses and vehicle tires. Note, and persistent dragging are 'THE TRUE SOLUFION of the rural-road problem throughout the sreater part of C'anada, save only on a few of the main-travelled arteries, which are better for hard surfaring. <br> TOWNSHIP COMI'E'IITION. <br> Fixample has its effect, and enthusiasm is contagious, but the contagion is not always so rapid as might be wished. As a means of stimu- lating the use of the drag, Mr. Rittenhouse hit upon the idea of a township competition, broachCampden winter at a local Institute meeting in Warden D. H. Moyer, who had built and used a drag, with very satisfactory results, in 1907. The meeting placed itself on record as favoring a grant of $\$ 2(1)$ by the township council. In the end, the council |
| :---: | :---: | :---: |

- 

THE FARMER'S ADVOCATE
member. set aside $\$ 150$ for the purpose, the over which it is a pleasure to dirive, and which
amount being supplemented by \$ivu obtained by does not readily grind up into dust.
athe mover from his cousin in Chicago. So the One difficulty met with by amateur draggers is
the the mover from his cousin in Clinicago, So the
ball was set rolling. The competition, it should be explained, is independent of the usual stint of roadwork with the grader and otherwise, which is done by the municipality as usual on roads not
in the competition. in the competition. polling divisions of thc township were subdivided, making eight districts in all. Four prizes wer
offered in each district-a first prize of $\$ 11$. offered in each district-a first prize of $\$ 11$,
secoud of $\$ 9$ a a third of $\$ 6$, and a fourth of $\$ 8$,
The prizes were offered to those who should take secoud of
The prizes were ofiered to those who should take
half a mile of road cach, make the most improvehalf a mile of road cach, make the most improve
ment, and keep it in the best condition from ment, and keep it in the best condition from
April 1 ist to December 1 ts, 1909 . The competitors
have the privilege of using any implement they
like, including the grader, if they are willing to
use it themselves. though, so far as we are use it themselves, though, so far as we are
aware, none have seen fit to employ this expensive
machine, preferring to rely upon the split-log machine, preferring to rely upon the split-lof
drag, supplemented with plow, disk, roller, har
row, and the King ditcher, described below. The judge of the competition is Jolm Young, of Abing judge of the competition is in the Provincial com petition two years ago. His first trip of inspec tion was finished before any work to speak of ha
been done on the roads, while the second and been done on the roads, while the second and
last will be performed during the summer, when the roads are at their best. There are some
seventy competitors taking a more or less active seventy competitors taking a more or less active
part, the majority being in divisions No. 1 and part, the majority being in divisions No. the eastern part of the Township, thes being more accessible to the prime mover of the lives in district
ing the fifteen or sixteen drags previously owned
by the municipality, Mr. Rittenhouse says ther by the municipality, Mr. Rittenhouse says ther
are now one hundred drags in Clinton Township KFEPING IP THE INTEREST
A competition of this kind does not run itself.
$t$ requires an expert enthusiast to push it, to induce men to enter the competition, to keep then at it, to instruct them concerning details of con struction and use, and, when necessary, to spend
time with individual draggers, and show them time with individual draggers, and Show them
how to operate the implement. Mr. Rittenhouse
has done this. In the first place. he called a has done this. In the first place, he called meeting to explain the use of the drag; then h vent out with horse and buggy to make a per
sonal canvass. His weekly letter on the road question has been a feature of the local news paper, the Beamsville Express, and has helped to
sustain interest, and incite to renewed effort. He accompanied the judge upon his rounds of inspec
tion. and, day after day, has been upen th roads, spending half a day with one competito
and a fow hours or minutes with another, i structing. showing. helping, lending implement particularly the ditcher-all for the good of the
cause. He has ever a critical eye for sod shoulder on the road, and urges all and sumdry to com cut off the «rass on the sod shoulder, and make clean. oval surface from kuter to gutter. On
done, it is a simple matter to heep such a roa
in first-class shape yont after sear. Indecd,
well-drneged road will tend to ncquire too much ing the drag occasionally, and surending a littl
 The dragging of a road can the done, with lit-
we loss of time, by in farmer whe lives ulongside it. Although for a townshig the probatilits. is means of putting a had rond into shap", there is hs cheaply, with the drag. The grader leaves a ice surface, cadil.
builds the crown layey has laver, mathenk an smontly well-compacted surface which shand the whter
readile. As a means of kradine, the split loe
 purpose
improve
n use over mans sections of the comento
$\qquad$


For this purpon
ine stich stane is pant wity



One difficulty met with by amateur draggers is of the road, where it cleans off the end of the
dray the last time across. This may be ver easily smoothed out, and a nice oval shape st cured so simply hitching on behind the drag, rur ning it backwards one round, of earth, an
round. This distributes the loose earlontornt leand. This distributes the loose carth, anc of a "hog-back" in the center of the road. A
deal earth road should be from is to 30 fee ideal earth road should be from conter, rounding


> Earlier Form of Split-lot Drag.
smooth curface irom ditch to ditch. Such road can he and has heen, buill and maintaine
 In the 'Ilinton Township compertition, some
the dravers have become (ery enthusiastic. Mon than one have improved their roads to une exten pality $\$ 25$ to $\$ 50$ to accomplish. They have not beats picked clear of stones, and, on it least one

King's Improved Form of Split-log Drag.

$\qquad$

ons are actually better than represe or, in making a picture of a smooth roadd, iresh wheel-track appeas conspicuous, resh wheef-track appears conspicuous, hiew crumbly lumps of clay, which would scarce. en noticed in driving, show plainly on the shat TO SFCOURE SYSTLM The question may be asked, " Is such a tition a good way for a municipality to permanent poolicy, it probabiy would not, for th ompetition would become an old story in
and people would tire of the good work. and people would tire of the good work. It
value consists in that it gets people interestal,
and demonstrates the advantage of a new
methotl. Even then, it needs a pusher behind it. method. Even then, it needs a pusher hehind it it would pay the council to engage men hore an
ithere to drag the roads, each main lning given al nere as he could well do, and paid for his timh
nuch skilled commissioner, being apppointed to surnet
ise the work, and dismiss any who failed to at rise the work, and dismiss any who fated aras
lend properly to their portions. Whatecer mans
is finally atiopted, there can be no doubt of the is finally atiopted, there can be no doubt of th
aflicac! of the spititlog drag for road improw.
nent and maintenance. The accompanying cuts, made from designs The accompanying cuts, made from designs
submitted by D. Ward hing, inventor of the
drag, are almost self-explanatory. The first cut shows the original form of drag, while the second
represents an improvement, made by setting the represents anc 16 or 18 inches, so that the end
hind slab back
of it would not catch in the face of the ditch when making the first round. A brace at the end rives added strength. King described the origi-
nal drag thus : "The two halves of a sitit lcg (preferably of cedar), ten to twelve inches thick.
are set on edge thirty inches apart, both flat are set on edge thirty inches apart, hoth flat
sides to the front. The cros-pieces are wedged sides to the front. The cross-pieces are wedged
in two-inch auger holes bored through the slabs.
if working a clay or gumbo road, it is adsisalle If working a clay or gumbo road, it is adsisan for soitor soil at end of twelve months." The drass used in Iincoln County are largely modelled after this pattern, except that most of
them are sawn, instead of beine split. They are them are sawn, instead of heing split. They are
also shod with iron on the lower front face of each half log, and some have stuck handles in beanother new wrinkle is somewhat indistinctl.
picted in one of our half-tone illustrations. It
 oi the roady. (in this, a leser with a rounding
bot om is hung, so that it runs along casily when
not in use, hut when the drage comes to a hole or a lone hollow or flat phace such as is often found
betwen the shoulder and the conter of a road
the laer may he hornc down liftine the inner end of the drag. and depositing the loose earth exact-
it where wanted. instead of rumne so much of
it off at the end, to lee finally drawn to the center, to accentuate the "hog-hack" there. I. M.
Wisme, the man who inconted this iden, calls it
with "the hefter hatr "o the split-low d"are with timulus in road improvement ton exors man who was not only six feot too wide, hut high in the
$\qquad$
An imatmatle comphame of the shm-log drat is the king ditcher, descrime may 11 ith, 1 isos, It is a con\#ass shoulders, and putting the dit up in posi-
$\qquad$ wr weful. The ditcher consisis of a guide-
Wlank, inches b: 12 inches hy 12 fret and a
mouldhourd Gre traced with a cros-piece 3 feet long. as luld in busition with inch bult. countersumb The eroc-thace shond be hollowed $:$ inches on
$\qquad$
$\qquad$
$\qquad$
$\qquad$

[^0]

Road being dragged for the third season by 11. H1. Voyer, who has had his beat graded five years. Note that the drag is being run backwards to smooth
charge for charge for five ead the small ridge of lonse earth left al the last time across.
down and spread

Half-mile on the Fly road dragged by J. M. Wismer. This road was too wide
and was in many places ridged in the center, but fat between center and shouland was in many paraces ridged in the center, but nat between center and shour-
ders. Has been narrowed from 36 to 30 feet, shaped up nicely and kept smooth. all with the King ditcher and the split-log drag Note the lift-lever on drag.


A road in the making. Five-eighths of a mile that has heen greatly improved
Half-mile of good clay road dragged hy Frank
gerated the slight imperfections along the track.


## Bored Well for Drainage.

 Editor "The Farmer's Advocate" :Re well for drainage, while your answer (issue May 20th, page 863) is correct, according to Webster's definition of artesian wells, it is not correct, as the term artesian is popularly undertario. Many wells are bored which do not flow, hence are not artesian wells in the strict sense of
the term, but the water rises to a certain head the term, but the water rises to a certain head ing. The peculiarity of these wells lies in the fact that you can pump them down, but all the water you pour into them will not raise them
above their head, which varies in localities, some places 10 feet, some 20 feet, some 60 feet below the surface. Hence the possibility of using them for drainage. Such a well is used to drain the
hasement of the Odd Fellows' lulock in Wheatley, basement of the Odd Fellows' Block in Wheatley,
Ont., and is working very successfully, I am told. Whether such wells would supply sufficient outlet for a large volume of water, is another question.

Exports of wheat and flour from Australia since the middle of December, 1908, to April 6th, 1909, amount, approximately, to $26,491,239$ bush-
els, or 709,587 tons, valued at $£ 5,211,000$ els, or 709,587 tons, valued at ${ }^{25,211,000,}$
Reckoning the $1908-09$ wheat crop at the low Reckimate of about $62.000,000$ bushels, the surplus avallable for export, writes Com
I). H. Ross, is about 900,000 tons.

After a roadbed has been properly, graded,
there is no necessity for using a grader, for the there is no necessity for using a grader, for the
road can be kept in better shape with the small scraper or drag than it can with the grader, and with less than half

THE DAIRY
Daipy-school Training and Certif cates for Makers.
The committec having to do with the pre
liminary work arising out of the law passed a
the last session of the Ontario Legislature, re the last session of the Ontario Legislature, re
quiring certificates for cheese and butter makers,
met in Toronto last week. A notice will shortly be sent to makers, outlining the method to be adopted in granting these certificates, and wha
they will have to do to obtain such. The new law provides that after 1910, only those who hold diplomas or certificates from the
dairy schools, or who hold a permit from the De dairy schools, or who hold a permit from the De
partment of Agriculture, will be allowed to have pharge of a factory engaged in the manufacture of butter or cheese. From a census taken last season in Eastern Ontario, the proportion of thos
managing factories, who hold diplomas from the dairy school, is much smaller than was expected Out of over one thousand men who have charge
of factories in that part of ontario, only 300 of factories in that part of Ontario, only 300
have ever attended the dairy school, and of this number only 150 hold diplomas. This is all the more surprising when it is stated that the dairy
school at Kingston has been in operation fol thirteen years, and the attendance during t
time has been about all the school could well commodate. The explunation is that those "
have attended have put in more than one term the school. The tendency is for makers, who
have once attended the school, to return agai frequently for a brushing up. Having tasted of
the good things in the way of information upon the good things in the way of incormation pol been able to give them, they have evidently real
ized that they cannot obitain too much of a In Western Ontario, though no accurate census, has yet been obtained, the proportion of maker
who have attended the dairy school is probabl who have attended the dairy school is prohably
much larger. Yet, there is a considerable num ber who are now successfully managing factories and creameries, and have been doing s school, nor received a diploma from such school Taking, the Province as a whole, it is a safo "sti to-day managing cheesse factorics and "reamerie
have never attended a dairy school. These, un less the law is modificyl in some way, will hav o be content with a special permint from the Min ister of
business
casting no reflection on the work of dairy school or the training given "t such instutions, to sa
that there are many of thase nen who are jus as well qualified to manage, a factory ase sum
graduates of a dairy school; and wity will now reads. The committee considered this , that of the question very carefully, and it is poseith
that some way may be found for givine old any tried men in the business an certificate of duall
cation equal to any that may be obtaincel ill
dairy school.

The situation in Eastern Ontario in this regard composition of heese. Payment by weight of is rather a peculiar one. There are many makers milk alone is rightly condemned as unjust and tend the dairy school, but they cannot afford to It is a pity the dairy authorities of America
do so. When the season's business is closed up cannot get together, thresh this question out and oo so. When the season's business is closed up cannot get together, thresh this question out and they have no more than will keep themselves and agree upon the most equitable systemi to rective
their families during the winter, and are lucky if mend. Disagreement among authorities results
For this reason it would be a in continuance of the pernicious pooling system, they have that. For this reason it would be a hardship to compel such to attend a dairy school in order to qualify for the highest-grade certifi
cate. Competent men of this class should re ceive full recognition in some other way. However, it would be in the best interests o the business generally if every maker had a dairy
school training. Makers obtain from the schoo school training. Makers obtain from the schoc
valuable information of a practical nature that valuable information of a practical nature that
cannot obtained in any other way. The in structors report that, as a rule, makers with a dairy-sthool training are more amenable to instruction in the factory, and take up suggestions
more readily, than those who have not had such training. The dairy school and its work, there
fore, is deserving of the highest recognition in all fore, is deserving of the highest recognition in all
matters affecting the qualification of makers under the certificate plan. The time may come when it may be possible to grant certificates of qualificia tion only to those who have dairy-school train-
ing; but until such time as factories are able to pay makers a sufficient remuneration to enable them to obtain dairy-school training, the qualification of many makers for the work will have to
be determined in some other way. W. J. W.

## Canadian Cheese Popular

 Canada, while land and feed are cheaper.

## arge also is coming to creat Britain in

 nd hundreds.

Practical Poultry Pointers. Poultry-raising is profitable, when properly

About the Milk Commission.
In ". The Farmer's Advocate":
Itorial headed "Ontario Milk Con
In In your editorial headed "Ontario Mink Com-
mission," in the issue of the 27 th inst, you
tate. " It would seem that state: "It would seem that the milk, dealers haps you are not aware that W. F. Nickle for many years owned and bred a smal but ver elect herd oftle was retuiled in Kingston. His dispersion sale advertisement was in your columns. This route catered to a fairly extensive and most particular clientele, and, speaking from the view
of a casual observer, seemed a model in cleanliness and neatness. Though under the direction of a manager, you
will, I believe, find that the shrewd insight and marked attention to detail which Mr. Nickle has shown in his other business affairs in this city will have been extended to this milk business, and that he will prove a most efficient member o

## Fronten

## POULTRY.

business should understand how to profita
fom the poultry premhes also, beware of attention of the hawk
more than colored ones. Farmers who have in-
troduced
Standard-bred troduced Standard-bred
poultry are now satisfied
they were behind the they were behind the
times while they kept
tho mongrel.
They will the mongrel. They will
keep nothing
but the pure breed now. C'hicks should not be
allowed to run through wet grass; it means death "O them. If your
" Mother Hen, is kept
in until such time as the in until such time as the
grass is dry, you will
raise a laryer percentage of chicks.
The brooder and coops
should be cleaned at least should be cleaned at least
three times each week. three times each ween,
ior cleanliness is one
great factor in raising Threc-year-old Ayrshire cow. First in lerby class at Ayr and reserve champion road dust put on the the stall with the Canadian product-foul dirt Wet and 'ow clean, and absorbs any

 We must increase our output of cheese and Chicks should be made to scratch for fine
improve the quality of our butter or siberia will seeds in their litter, which should be fine-cut ours. Canadian butter is not inferior, but it cellent litter for young chicks. My chicks are out Tacks uniformity. Many purchasers will not buy of the brooder at 7 a.m. and do not go back
h, wter with salt in it."
until about 5.30 p. m. . The brooder door is left

Basis of Calculating Cheesemak- ford to chicks ing Value of Milk.
it causes bowel trouble of course moist food
bulletin No. 3os, of the Experiment station
is all right, a little at a time, but some people
 hactories, citing facts and tigures calculated to. Wry anickens are now getting, and they are growConsidered, the simple fat test gives the fairest measure of the value of milk for cheesemaking. In Locate the brooder or chicken coop in a shelTaming this the dairy authoritics of the station tered nook if possible where the sun's ray will
are at variance with the teaching of Prof. Dean, strike it early in the morning. Then if the who has at various times conducted experiments brooder is in a sheltered place, it makes less
to demonstrate that the fairest method of dis- trouble looking after the lamp. You will not rithuting cheese-factory proceeds is on the basis waste so many matches.
of per cent of fat plus two. allowing two to poultry is growing in demand. The prices are
 Wethod as worthy of attention, also lahbeck's tood price ior the time of year. Of course, grain
a low - power magnifier is used. There is no
blastoderm visible if the egg has not been fertiIt will be observed that in these answers there absolute agreement, and, consequently, tha
correspondent may accept them as correct. correspondent may accept them as correc,

## GARDEN 鞛 ORCHARD

Seeking Outlets for Ontario Small Fruits.
There is more concern than formerly among ruit-growers this season as to the possibilities
of marketing the crop satisfactorily. The outlook for a big crop of all kinds of fruit is very bright. If the yield is anything like what pres ent conditions indicate, there will be some diffculty in linding a market for it at satisfactory prices. Especially is this true of the more perishable fruits, such as berries and cherries. large. This crop is all marketed in Ontario, and during the past couple of years at satisfactory prices. This year it looks as if an outlet will have to be found outside of the Province, if fair prices are to be obtained.
No attempt has been made yet to ship strawberries to the West. For the past couple of years some Ontario cherries have been shipped to
Winnipeg, and have realized good prices. The Winnipeg, and have realized good prices. The nipeg Exhibition, and as the Ontario Government makes an exhibit of fruit at that exhibition, there has been someone on hand to look after the shipments of cherries as they arrive. For a couple
of vears past P. W. Hodgetts, Director of the of years past P. W. Hodgetts, Mirector of the
Fruit Branch, Toronto, has had charge of On-
Bras tario's fruit exhibit at Winnipeg, and has ooked
after the shipments of cherries sent out by growers. These shipments have sold at satisfactory prices, and the intention is to make much larger
shipments this season, in view of the prospects
for a big crop.
With strawberries it is diferent. This crov With strawberries it is different. This crop
is marketed before the Winnipeg Exhibition takes is marketed before the Winnipeg Exhibition takes
place. To make shipments to the West it would be necessary to send someone along to look after
be
them when they arrive. This would add greatly hem when they arrive. This would add greaty
to the expense. It would be useless to send shipments without some interested parties at the other end to receive them and place them before buyers in the West in proper shape.
reason it is not likely that any shipments of reason it is not be made this summer, though it would greatly improve market conditions at this end if some other outlet than the local market
were found for this crop when the yicld is likely were he very large.
to has, however, to be made some A beginning has, however, to be made some
time, and if it is desirable to develop a market in the West for berries and other tender
it would be worth while for the Government to send someone to Winnipeg to look after initial
shipments and place the fruit before the trade shipments and place the fruit before the trade
there in proper shape. In developing a market in there in proper shape. In developing a masiness
the West for ontario small fruits the busines
must he handled in the best way. The fruit sent must be handled in the best way. The fruit sent
must be of the best to begin with; ; then it must must be of the best to begin with, will permit of
be forwarded under conditions that wil its arrival in
done there is no doutht that profitable prices can
for a considerable amount of the

## Thinning Fruit on Trees.

Ladders, step-ladders and intelligent men are II that are required in thinning fruit on the tree. and deformed apples. It is inadvisable to leave more than two apples together. and, if the tree be heavily laden, thin to one.
On July Tth, last year, I commenced to thin (itcenings, and continued on Holland Pippins. Alexanders and Baldwins. When the fall apples are about the size of walnuts, they may be
thinned. Thinning Spies before last of July is thinned. Thinning Spies before last of July is not recommended, but arterwar.
ceeded with until harvest. In 1908, this work, on my entire orchard or
(Greenings, Baldwis. Kings, Mussets, (ireenings, a few other varieties, effected a uniiormity of size in the ripened cropthat adoption packing in boxes, a metho cer thus that we will
in the near future, for it is onl
be enated 10 receive the highest market price, be enabled to receive the highest market price, be prove our boxed apples
and pres
isritish Columbia and Oregon.
 1.-I know of no means to that end
re benefited by the nourishment which has not
een uselessly absorbed by unsalable fruit. Proper modes of fertilizing, thinning, spraying, cultivatnough for the world's competition. In thinning ordinary-sized trees, which are about two-thirds loaded, a man could thin from ten to fifteen trees per; day. In case of an un-
usually !arge tree being overloaded, a man would need to spend about one-half day in remoring the seed to spend about one-1
In breaking the stem, one may use the same iury to the fruit buds for the succeeding year. There is very little danger of injuring the fruit buds in thinning, the only danger being in the
placing of ladders, and a person moving about in placing of ladders, and a person moving about in
the tree, when he is liable to break the fruitspurs.
Although 1 found the expense of thinning in 1908 averaged 5 cents per barrel of fruit har-
vested, the cost of picking and packing was reduced, in not having to pay for the handling of small and inferior fruit. A large, overloaded tree, if not thinned, would
probably produce about four barrels of firsts, but if thinned, "ould very likely yield eight or more, man $T 5$ cents for thinning it. My entire crop of eight hundred and eighty burrels were picked and packed for 20 cents per barrel, and, including the in the previous, was handled much cheaper than From this method, adopted for the first in 1908, I reached results otherwise unobtainable. per cent. ranked. were graded seconds, while 95 Therefore in conclusion, my advice to the fruitgrowers of Ontario is to thin apples, peaches, and, loaded, all fruit where trees or vines are over

More Spraying of Orchards this Though the Ontario Legislature last winter did not pass the legislation asked for by fruit-growers
in regard to spraying of fruit troes, orchardists in regard to spraying of fruit troes, orchardists
are taking up spraying more vigorously than ever this season. The co-operative associations are exerting themselves, and more spraying is being hase this season than in the past. Heretofore it area been confined largely to the San Jose scate plicd in now spraying mixtures are beling apsections where the codling moth was most destructive last year
Many farmers have purchased spraying outfits and are doing the work under the supervision of che inspectors employed by the (oovernment. The
sprayers used have the capacity of power sprayers, but are operated by hand. This enables orchardists to do the work quickly and at the
proper time.
In Western Ontario spraying is being systematically done in many districts in the inore northerly counties, and in Eastern Ontario
in the apple-growing centers bordering on Lake Ontario. This spraying is being done chiefly to combat the codling moth, pest are not likely was the case last year. If the spraying is properly done, and the crop of apples much improved thereby, it will be an

English Fruit Crop Prospects.
The acting Trade Comissioner at Leeds, Eng. writing to Trade and
There is every prospect of an excellent fruit rop in England this year, providing no frosts
are experienced during the next few days. Information received from various parts of the country shows that the outlook is very promising. From the principal fruit-growing districts the apple and pear trees. Berries are also look ing well, especially gonseberries and strawberries. but, unfortunately, in the case of plums, the like being a failure. The hard winter, from all accounts, has done no damage to the young trees; indeed, according to one expert, hard-winter fruit The month of May is, of course, a most ritical time of year for fruit-growers, as, if there should be any severe or continuous night frost during this month, considerable damage is a
wavs done 10 the trees just as they are beginning to bloom. Although it is rather early to speal definitely, it can be said. with a fair degree of certainty, that, should nothing untoward happer during this month, there will be more than an averace vield of apples and other fruit
ihis ear. with the exception of plums.

## Fruit-crop Outlook

Canada's fruit-producing districts. The report Canada's fruit-producing districts. The repor sion, under date of May 31st, shows that in Eastern Canada the winter was mild and trees and bushes came through with little damage by frost. sleet or mice. Near Winona and Fruitland, in the Niagara district, some of the peach buds on towe branches were killed in orchards along the lake British Columbia experienced severe cold and light snowfall. In irrigated districts, where caliva tion was continued late in the season, some kinng of young wood has been reported. hera thorourh suffered fow herve some damage was done mulching was practiced. Some damage was done also to peach. plum
escaped with little injury
escape whe unually backward spring, with cool wet weather is said not to be unfavorable for fruit weather, is said nof told in check until danger of frost was past. Cultivation and spraying, howfroser, have been delayed. In Ontario fruit sections the bloom is at least two weeks late, but fine weather at the end of the month was iavorabie for the setting of fruit. In Nova Scotia spraying and cultivation commenced ubout May 10th, but cool weather resulted in late bloon in the Annapolis Valley. Extremely backward weather British Columbia gives rise to reports usual time.
buds are nearly a month behind their buds are ncarly a monct estimating the marketable
For convenience in estion ore the districts of the dominion are dicrop, he follows
District No. 1.-Counties north of Lake Erie and Niagara district. Huron and District No.
inland to York County
District No Counties bordering on Lake District No. 3.-Counties nordering on Lak Tistrict No. 4. Ottawz and St. Lawrence valDistrict No, 5.-New Brunswick, with north eastern Quebec
District No. 6.-Hants, Kings, Annapolis an Digby Counties, Nova Scotia. nistrict
District No. 8.-Prince Edward Island
District No. 9--Lower mainlard and islands British Columbia. ble.
Districts 1, 9 and 10 ship the commercial crop Districts and other tender fruits. grow plums pears and winter varieties of apples for long-dis tance markets and export. Wealthy, Fameuse District 4 ships Alexander, Wealthy, Fameuse
and MIntosh Red apples. Districts 5 and 7 will not produce sufficien
winter fruit for home consumption. APPLES AND PIMRS
Apple trees everywhere give a good showing of hloom. District 1 the apple bloom would indicat a moderate to good crop. The early vari, ties
that bore well last year are not showing so full a bloom as the winter varieties this year. Spies
I aldwins and kussets are showing well. In District 2 the winter varieties, particularly
are showing an abundance of bloom. The earl and fall varieties are not blossoming so hearily
In District 3 the prospect is for a heavy bloom. At present the
crop. In nistrict 4 the hoom is from ten to fiftee
days late in the Ottawn and IA IAwrence valles.
hut nearly all varieties will hossom out for full crop. In Districts 5. 7 and \& the bloom is very back-
ward, but conditions are favorable.
In District 6 (Annapolis Valley) the indicutions are for a full bloom for all varieties. In Districts 9 and 10 (British Columbia) t
apple bloom is fairly hoary

 ties along the nerth shore of Lake comtary, in District 3.
In District 2 there haw alw been :a Lowl hay The prospect foy the pear crob in thaty


## Clapp and Duchess suffered in some and

and hieffer varieties are showing the
pluMs, peaches ayd cherries
111 kinds of plums budded out remarkably in Ontario. An exceedingly heavy bloom is re-
corded in the Xiarara District, particularly of the Japan varieties. There is every prospect of full crop in the commercial plum section. Plums British Columbia
There has been an abundance of bloom in the Ontario peach belt, and the prospect on the
whole, is very encouraging. Along the lake front, however. in the Niagara district. from Stons Creek io within a short distance of Grimsby peach buds were thinned in the lower branches by winter irosts. A short distance back from the
lake to the mountain the peach orchards were full lake to the mountain the peach orchards were Tull
of bloom. This condition is reversed in the immediate neighborhood oi Jordan Harbor and Port Dalhousie. The peach orchards nearest the lake
show the best bloom. There has been wers little wet weather during the blossoming season to interfere with the "setting" of the fruit In sev-
eral instances more or less serious damage to eral instances more or less serious damage to
peach buds is reported from Iritish Columbia, which will likely bring the crop below the average. Cherries everywhere have blossomed heavily. At present the outlook is for an abundant crop
throughout Fastern Canada. All varieties have throughout Fastern Canada, All varieties have tain localities in the interior valleys, where sweet varieties are reported injured by frost.
SMALL FRLITS AND TOMATOES. Strawberries have wintered well in Ontario,
especially where the patches made a good growth
lact fall Small fruits of all kinds are doing last fall. Small fruits of all kinds are doing
well. Raspberries, blackberries. currants and gooseberries give promise of an average crop in
British Columbia.

Most varieties of grapes have come through the winter well. In the Niagara District the ConCords especially are looking thrifty, but the
iagaras in some cases are reported partially Niagaras in some cases ar
Tomato plants are being set out in large numhurt by frosts. Insects are commencing to be noticeable. The
codling moth is likelv to be numerous on account codling moth is likely to be numerous on account
oi the mild winter. The bud moth is plentiful. It has been seen working on old trees as well as young. The cigar-case bearer is also at work. ing more general among the smaller orchardists. Outside of sections infested whee or four applications of properly-prepared poisoned Bordeaux mixture will control at least seventy-five per cent. of
insects and fungi attacking the apple. The inInsects and fungi attacking the apple cigar-case
jurious work of the bud moth and
bearer largely by the first spray applied just as the buds are expanding. This application is also important in checking the development of apple scab. The second and very important spraying just aiter the
blossonis have dropped is the death knell oi the codling moth or apple worm. The subsequent
spravings are useful in controlling loat-ating inspravings are useful in controlling lwaf-eating in-
sects and fungous diseases. Peach-leaf curl is quite prevalent this year on
unspraved tree. hut is hardly noticeathe "herd the peach orchards were sprayed with lime and
sulphur. cherry. Cuat ing out a few inches below the knot and buining the affected branches is the only
remedy. sras unaflected trees with Bordeaux a a preventive formagn prospretas. Britain on account of late cold winds. Report prospect for more than an average yield of al Pruit in lingland, with the exception of plums
which have bloomed very light Later reports of
saver. Nav frosts have been received, which ma alter the prospects. The first early estimate the conditions on the continent is favorahle for
good fruit crop. In Belgium and Holland th good fruit crop. In Belgium and Holland th
tries are reported looking hottor than th. has

An Apple-buyers' Game

THE FARM BULLETIN
Field Cpop Competitions.
The Ontario fredd-crop competitions are
The Provincial Department limited the numb, societies that could take part this season to 1"f
and present indications are that the full numb and present indications are are already 91 applica
will be reached. Fhere are tions in, and some more to come. Owing lateness of the season the time for making entrie
has been extended, and it is possible that than the limit will be received.
The number of farmers in each society enterin
ayerages 20 With 100 societies entered. thi a verages ${ }^{20}$. Will mean 2,000 individual farmers engage these cron competitions this season. Entries hat come in from all parts of the province, ast Sault Ste. Marie the and also cout western Ontaric for only one kind of crop. yut of the entrime anter iar, 60 are for oats. There are entries also for fall wheat, goose wheat, barley, corn, beans, pea
and potatoes. Several societies have not yet da and potatoes. Several societies have not yet de
cided upon their grain. While oats, as was the case last year and the year before, is the chie crop chosen, there will be a sufficient number
other grains selected this vear to make the
 petitions. The progress made by these field-crop com netitions has been remarkable. Three years ago
when first organized, about 200 farmers took when first organized, about 200 farmers took
part. Iast year the number was increased to part. This year it will be 2,000 or over, and these, distributed as they are, pretty much over the whole l'rovince, will mean an increased inter
est in crop production and improved grain yields The Superintendent of Igricultural Societies is -ndeavoring to interest local societies in field-crop
grant will be made for this purpose Sovernmen are urged to make this a feature at their fall shows, and many of them are taking the matter up. These competitions will be limited to boys confined to wheat and oats, and prizes for sheaf exhibits only. Fach competitor will be expected to select from the standing crop a sufficient numa good-sized sheaf and to enter this for a prize to be given at the local shows. The object of an work is to encourage boys and girls to take

Saving Daylight by Law.
The measure which was brought before the House of Commons during the past session, and
which is commonly known as the "Day and Lightaving Bill," has been referred to a select combrought before the House again next session, and unless strong representations are made, it will doubtless become law. I have not noticed in any
of the farming or horticultural papers any discussion on this point, and think it well to bring he. as it cour notice, and that of your readerf. as it is one which will vitally affect fruit-
growers and farmers generally, particularly those do with the catching of trains. In the firs place, it seems to me that the measure is intendtwo much consideration at the hands of our Legislatures. It is proposed to put the clock back
pighty minutes, so that the city man will get up an hour and twenty minutes earlier than is his usual wont, and that there will be that length o
time for recreation aiter the close of business. I time for recreation aiter the close of business a
the measure becomes law, it means that the railway time tables will be made to conform to the
new state of affairs, and the farmers who have to trains, and who are obliged to start milking any where between half-past four and half-past five order to accomplish this, will virtually ha
start their operations an hour earlier.
quit, conident that the majority of farmers do not neert to have the clock put back, as his busiHo.c calls him carly in the morning, and in the tusy seasons. such as having and harvest.
voun nowalitus his working quite late in the
In hour and twenty minutes tacked , nto the hevinnine of his day to suit city me
1.hes t... muth. whin one considers the very
 (1) Whem at the latter part of the day -........ - anter that it is a very common

JUNE 10,1909
dried upon the bushes a
berrics, and if the trains are schuyluled to stary
one hour and twenty minutes earlier than the are at the present time, it simply cuts that much
time off the picking day. 1 was a member, to confer with the representatives of the Canadian and Pominion Pxpress Com-
panies, to induce them, if possible, to rearrange longer time in which to prick but their great ex-
cuse was that they must pe into Montral in time cuse was that they must be into Montraal in time
for the early morning market, and in order to do this, it was necessary to starl the trains when
they did
 new regime, and this will nuwessitate arranging
the schedule of trains according to the clock The matter, in my opinion, is too scrious to
be allowed to pass without some protest, and 1 , therefore, take the liberty of bringing the matter
before you, and if the cily men want to save the before you, and if the city men want to save the
daylight, let the manufacturers open their fhe
tories at half-past five am. and close at hall-past fours they will then accomplish the same thing,
without the childish muthod of putting the clock withou
back.

Macdonald College Convocation history, McGill University, on Thursday, June 3rd,
held a convocation outside the limits of the City of Montreal. Ste. Anne de Bellevue was the place take the place of formal opening exercises for ing were not in condition when the work of in Nature smiled auspiciously upon the proceedings. The warm sun of a clear June afternoon lighted up the young green of the lawns and newly-planted
shrubs and trees, the white and pink blossoms of the orchards, the gray of the macadamized roads Assembly Hall an audience of eight hundred persons were assembled when the convocational proession, headed by His Excellency Lord Grey, offison, of McGill, entered, with all its brilliancy of The business of convocation purples and blues. the honorary degree of Doctor of Laws upon five gentlemen-three Americans and two Cana-
dians-who have attained prominence by their services to the cause of agriculture and education
on this continent. The following are brief sumpresented them for their degrees:
Hon. James Wilson, Secretary of Agriculture land, in 1835; emigrated to America with his parents in 1852 , and in 1861 took up farming in a man to represent them in the State Liegislans Representative, he was elected Speaker of the
Assembly.
Entering the larger field of national politics, he sat as a member of the Federal House 1883 to 1885 . When the Iowa College of Agriulture, which was not doing much, wanted a
nan. Mr. Wilson left the geographically larger field and became the Director of the Agricultural
Experiment Station and Professor of Agriculture 67 students, and to-day 577 regular and over 800
partial students in agriculture. When in 1897 resident Mckinley wanted a man for his Cabinet Agriculture, he sent for Mr. Wilson, and in his case there had been no objection raised to a third
term, for he has the unique distinction of having erved in the Cabinets of three successive Presidollars passes annually through his Department. and the same scrupulous thrift that characterized Cions he ". Department of Agriculture, hat of the Commission
Resources, was born in Connecticut in
(iraduating from Yale at the age of 24 , he studied forestry in Cirmany, Switzerland, Aus-
tria and France, and in 1892 began systomatic tria and France, and in anderthilt estate at Bilt-
forostry work on the National
more, N. and becam a member of the No.
 ni natural resources. "But for Mr. Mal Confer-
sitid President Roosevelt, "t the National Con of
ancon of State (Governors on the consprvation of In addral resources would never have heen hetd


IHE FARMER'S ADVOCATE

American conference on conservation. and to his
pleasant association with the Hon. Sydney Fishe
(who was also on the platiorru) in the work ol
that conference Mr pinchot (who was also on the platiorm) in the work of
that conference. Mr. Pinchot stated that a
world conference on the same subject was now being arranged-perhaps the first conference of ald
the powers in which no nation had anything to lose and every nation had something to gain lork. State, and a graduate of Cornell Univer Furopean agent of the University of the State of ant as Professor of Pedagogy and Philosophy in twelve years Dean of the Teachers' College fo Columbia IIniversity, New York City, and has rendered valuable service to Canada as an adviser
in the organization of Macdonald College. He was presented for the degree by Dr. Dale, Pro 1)uncan McNab McFachern, D.V.S., F.TK.C.V. Graduatine from the Royal Veterinary College of same year, and took up the practice of his profes sion in Woodstock, Ont,., lecturing during the win-
(wr in Toronto and adjacent places. He aided in the establishment of the Toronto Veterinary Col coge. in 1866 founded the Montreal Veterinary
college, and in 1889 became Dean of the Faculty of Comparative Medicine and Professor of Vet erinary Medicine and Surgery in Mc(iill University
It was on Ir. McEachern's recommendation tha It was on ir. McEachern's recommendation that Levis, Que, in 1876, and he has rendered invalu able service as Chief Inspector and veterinary ad
viser to the Canadian Government. Dr. Mc Eachern has been foremost in the campaign against hovine tuberculosis. "Thirty-two year ago," said Dr. T. (G. Roddick, in presenting him,
"eight years before Koch discovered the bacillus of tuberculosis, Dr. McEachern read a remarkable paper in Montreal, declaring his belief that tuberculosis was a contagious disease
Principal James w hre scotland came to Canada thirty-five year ago, and first achieved distinction in the improve ments of the methods of the dairying industry, years are in no small degree the outgrowth of his efforts. In 1886 he was appointed Professor of Tairying in the Ontario Agricultural College; in 1890, Dominion Commissioner of Dairying and Agriculturist of the Central Experimental Far
at Ottawa. In 1895 he became Commissioner Agriculture, and in 1907 was appointed Principa of Macdonald College. Principal Robertson was presented for his
of McGill College
O. A. C. 1809 Gpaduating Class.

The 1909 ontario Agricultural College gradu of these, twenty-two are residents of Ontario Saskaterme from Nova Scotia, one each fron E.dward I Iland and Inited States, four from Eng land, and one each from the following countries cotland, Belgium, Jamaica, B.W.I., Spain and old werld also he heme ted the We give below the home addresses of the variOus members of this class, together with the
positions they have obtained as far as is known at present: agiricullutirai option
R. I. Allen, Guelph, Ont.
P. F. Angle, Forks Road, Ont. Appointed District Representative of the Provincial Department of Agriculture in simese, Appointed Assistant to (. A. Putnat, Superintendent of District Representative of the Provincial Depart ment of Agriculture at Morrisburg, Ont.
E. F. Coke, Mile Gully. Jamaica, B.W. I. Has accepted a position with ". The Farmer's Advo Conzalo Diaze, Ferrol, spain. Expects to r turn home shortly, and aiter spending the winter
in Spain to start his work in the Argentine Re-
H. C. Duff, Dobbington, Ont. Appointed Dis-
culture at
Norman
W. W. I) Jackson, Fulton, Ont. Fxpects to be
engaged in orchard survey work for the Ontario Wepartment of Agriculture for the summer. Returning to his native country and has been ap pointed (erealist for the Agricultural Department Orange Rive
Bloemfontein

Knight, Brackenrig. Ont.
I.awrence, Stratiord, Ont.
I.f Clair. St. Therece, Quebec.
1.

Forming Manager of I. I. Mackae, Cumberland, Ont
P. II. Moore, Truro, E.S., Will be connected
(ith the Experimental Department of the College or the summer. another Man who prefers the farm Mr. Moore is and intends returning home to the old place. Harry Sirett, Rosseau, Ont. Appointed Dis-
rict Representative of the Department of Agri-

BIOLOGICAL OPTION.

(: A. Cutler, Roleau, Saskatchewan, Apof the Field Husbandry Department at Macdonald Iffred Eastham, Preston, Lancs, England. Apfointed by the Agricultural Department of Onario for fungus investigations and orchard surwork, with special regard to apple cankers, F. IV. Stufford, Toronto, Ont. Appointed Asthony Park, St. Paul's, Minn., U.S.A. Wperial . Thompson, London, Ont. Appointed
 Boston, Mass. farm near Grimsby, Ont. lssistant to Professor Blair. Head of the Horti cultural Dorment at Macdonald College, Ste. Anne de Bellevue, Quebec. Turney, Laventhen, Belgium HORTICULTURAL OPTIO Bengough, Toronto. Ont
Frank Brady, Canning, N.S. Has gone West o manuge a fruit farm at New Denver, B.C. B. Hoy, South Swansea, Mass. $\begin{gathered}\text { Appointed as }\end{gathered}$
Assistant Horticultural Inspector for Department of Agriculture in British Columbia.
A. J. Logsdail, Clapham Common, England. Has charge of the Plant-breeding Department at herdona M. S. Middleton, Vernon, B.C. Appointed as Assistant Horticultural inspector for the British Columbia Department of Agricuicure, Has returned George Manton, Eglinton,
home, to take up foriculture.
BACTERIOLOGICAL OPTION
G. U. Cunningham, Oil Springs, Ont.
G. H. Unwin, Tunbridge Wells, Kent, England, Resident Master or Dean at the Ontario Agricul
DAIRY OPTION

$$
\begin{aligned}
& \text { H. Irvine, Habermehl, Ont. } \\
& \text { Mcaren, Edinurgh, Scotland }
\end{aligned}
$$

$$
\begin{aligned}
& \text { McLaren, Edinburgh, Scotland } \\
& \text { M. MacIntosh, Guelph, Ontario. } \\
& \text { Waddel, Korwood Ont. }
\end{aligned}
$$

M. Waddell, Kerwood, Ont. Mr. Waddel hus obtained a very good position in Indiana, in onnection with dairy work.
Of the above candidates the following hav passed: Allen, Angle, Bailey, Coke, Cutler, Diaz
Iluff, Eastham, Foster, Irvine, Jones, Joubert luff, Eastham, Foster, Irvine,
Knight,
Lanes,
Jonence, Joubert, , aren, Monroe, Stafford, Thompson, Treherne Turney, Unwin, Waddell. The following must take supplementals: Campbell, Cunningham, Hoy
Jackson, I,ogsdail, Middleton, Moore (P. H.)

Dr 4 B Sinclair formerly Vice-Principal of the Ottawa Normal School, has been appointed to the position of Head of of McGill Universit ers of Macdonald College, at a salary of twenty mas hundred dollars and residence. Since Christ rendered has occupied the position of Acting Dean tocke to the Chief Librarianship of the new Car negie Library, Toronto. Dr. Sinclair is an hono graduate of Toronto and Chicago Universities, an "chool Head Masters' certificates. He is familia on rural conditions, having spent his boyhood on the farm, and having had experience as a containing a sequential course in nature study for

A despatch to "/ The Farmer's Advocate " just before going to press, intimated that W. W. Bal-
lantyne and Wm . Jones had been chosen as Ontario members of the bacon-hog commission, with : Garcau, from Quebec: J. F. Sincluir, from

C. Jrmes, Deputy-Minister of Agriculture for Ontario, leaves for Fngland on Thursday
where he will devote some time to the expansion


MARKETS.


THE FARMER'S ADVOCA'TE



THE FARMER'S ADVOCATE


The Victory of Samothrace is so
called from where it was found in
ireece, where it was cared and
erected to commemorate a naval vic-
tory gained over the great Ptolemp. erected to commemorate a naval vic-
tory gained over the great Ptolemy.
The Goddess of Victory is repre-
sented as standing on the prow of a sented as standing on the prow of a
vessel. Originally, with her right
hand she held a trumpet to her lips, hand she held a trumpet to her lips,
and with her left she bore the trophy and with her left she bore the trophy
of Victory. Her wings are out-
spread, and the drapery clings closely to her body, and is swept back ward by the wind. The statue yet in this mutilated form it sug gests, as does no other piece of scul.
ture of ancient or modern times, ir ture of ancient or modern times, ir
resistible energy and boundless life Its influence on the beholder is de scribed by Arthur J. Eddy as fol
lows: "It seems but yesterday stood before the original in th great painters of to-day, and he sai that, of all the pieces of sculpture $h$ had ever seen, niase and exaltation wonderiul poise of th figure, the sweep of the garmentis as if the north wind became ible-headless, armless, footils do
but an heroic fragment, still do miss nothing; the power of the un known master encompasseth us abou I am sorry that 1 cannot get th readers of " The Furmer's Advocate
exactly the print of the statue should like to put before then. Mor oresend the the the id pesistless energy making its wa against almost overwhelming oppos tion. It is this view of the magnifice figure, bracing itsew agsine in it er to put into me ener and determination, when all look at my Victory, and the messa of her, meaning dispels tiredness an strengthens weakness, and I am e whatever it marward to my ta whatever it may be. Nor am
alone in finding the Victory a stimu lus to hopeful action. In the Louvr
where the statue is at present, the most casual observer must notic
the effect it has on the beholder. Un the effect it has on the beholder. Un
consciously, the shoulders straight en, the head becomes erect, and the eyes brighten, the whole body shou seems to emanate from the sculptured marble. statue of the Venus de Milo. Agreat educator has said: "If I had a
daughter, and wished her to acquire dignity and serenity of presence, 1 would constantly see it, a copy of
the Venus de Milo." The history of the finding of in the summer of 1820 a (ireek peusant was excavating on the lsland of Meios,
near the roots of a large tree, when near the roots of a large arce, reveal-
the earth suddenly caved in, reat groto
ing beneath the tree a great gre or cave. Here was found the
statue which by critics is considered workmanship that ancient art produced. It was in three pieces, the drapery, and again at the bust. Much specuion of the arms of the (ioddess. Probably the best judgment places "1
shield resting on the raised knee; the left hand supports it, while the right is engraving on it the names of vic-
torious warriors. The various speculations are interesting.
position of the arms could in no wise affect the pecuiar granceur ons to
part of the statue which remains
us. It represents an ideal of wous. It represents an deal oly to those who believer statue most carefully for her own benefit, and who, if she has.
daughters, points out to them the eauty and nobilit
hich is suggested


Venus de Milo

The Temperance Question
As ample opportunity has been givof opinion on the temperance ques tion, we have decided to close the discussion. We have on hand severnoters, of which briow we gree ay "syopsis. ${ }^{\text {. }}$ Moderate Man " encloses clippings from the Auburn ('itiren, giv hg evidence of a triumph of the which there are 43 suloons: also from the Toronto News of May 25 th, part of the local-option agents at had, no doubt, by applying to the Man" adds that his twenty-five dol
lars are still waiting for al claimant If anyone is desirous of communich Gubject, we shall be pleased to for Mr. Affleck, Oxford Co., who de cares himseli a "rank prohibition must have been fermented, also se Cochrane, Simcoe (co, who sets fort thut himself concerned, a man shoul be allowed to drink as much as his wife und children. the matter hel
 Tren lesen , he thinks we woult
 ore wank our correspondumpts for discuation.
$\qquad$

Hope's Quiet Hour
A Door of Opportunity



 ..... Wers veation one cannot aty.

of the welcome such children must have
kivn to the present of "ninety acres of
fertile land. laid out and ready for
sow and reap, the gift of the McCormick
Harvester Complany to the tenement
ago." which I saw mentioned in "Themagazine is a May 22nd. In the samechance for real, heal hiul outdoor play
"heor "flufy-ruffled, starched andhormal children" of the hotel, whose
if a lady's lapdog-" to be led on a
driven in the park". These unfortunataga
do
a
nito valuw to Cond chey feel to be of in-
or tioul has set before you an open dour
distunce of Toronto-may be willing
Whers can help the werk along by send
If the Mission Nurtin Lov. 188 se pastid
W. sor therc there were two young ladies
Wiritug fore "ut they were two nice ladieg
When we got to the farm the indies sai

Thes
write
your somme outracts trom the 'sust ghi

 ..... Wis. to let youn would wow 1.


Whe had sum a long ride in the trailIh. is anthing tuut furins here everybody

II XP: 10, 1909
gained in two weeks.
the weat field yester
 I have just been an hour writitng this plet
ter, kisses for all-26 for find
 amounted to about 85.50 . The children
are sent out in July, commencing Tues day, the 6th. Thase friends who are
willing to undertake the charge of children should let the Secretary know, not boys or girls are preferred, It the same
children are desire a gain as you had last year, kindly let the Secretary know.
State P. O. address, and nearest railway State P. OAdter directions will be sent by
station.
the secretary on application. She suys. the Secretary on application, She says.
in a letter recently received "The boys and girls are still needy-
last year we had over soo nameson the
list, but through lack of homes, only 530 were ent out."
How many doors will open to them this
year
DORA FARNCOMB

A Great Opportunity.
The month of June, 1909, will mark an epoch in the history of our ts Canadian Branch, the International Council of Women will hold its pourth quinquennial meeting in Canada. Women who are leaders in hought and action, socially, educationally, and philanthropically, will be our gueste, some of them accredited delegates, with their expenses paid by the Government of the counries they will represent, but all of hem women selected and honored by worthy to be their representatives, and to convey their sentiments and greetings, not only to their Canadian sisters, but to their
The last quinquennial meeting was held in Berlin in 1904, on the invi-
tation of the German Council of Women, and it was on that occasion that Canada's invitation for 1909 accepted. The time is drawing very near when the "glad hand "of Ca-
nadians, men and women alike, will ne warmly grasped in token o friendship, of fellowship in work,
and of kindred aims, by the women of world-wide reputation from across and from the sister colonies of Ausralia Queensland, Tasmania This is Canada's opportunity-on it cannot afford to lose-lor the com paring of the methods of work on many lines, and unds. That our own Dominion and Provincial Governments recognize this, is proved by
the financial grants they are making towards the somewhat heavy expense fund, whilst the civil and other authorities in the several citie through whill pass en route, are arrang ing to do them honor, and to show them, as far as possible, the almos
boundless resources of the Dominion and how an intelligent and pro-
aressive people know how to develop gressive people know hoject in view,
Them. With this object will take The Ontario Government inspect and be entertained at the Macdonald His
titute. The Canadian Women's orical Society and the Toront torical Society andange a visit t
Travel Club will arrant
Winarara Falls. whist Ciagara Falls, whilst hospitable Whas aro daily heing outlined carry buch he guests of Canada mories of ou

THE FARMER'S ADVOCATE


6316 Blouse with Dutch Collar. 6198 Circular Skirt.
 $\underset{\text { inches waist }}{\text { 8198.-Cir }}$


Hark It throbs like a heart-heal Toy with a church bell codence
(irief, with a singing sound


information regarding setenilied curcians,
and, now that $I$ have the curtains up.
and, now that I have the curtains up,
thought I'd write and tell what succe

costs 18 cents per yard.
I temmed them down one side and end.
and put the pattern just tack of the

blue.
For the color I used Prussian blue and
lake white, mixed to get the right hate,
and thinned with turpentine, th does not
ery interesting.
For rods, wo got two pair of small,
brasss rods, on one pair of brackets.
On the stencilled curtains we sewed
small brass
kind used in fancy
Work). and hung them next the window.
The curtain is much more easily drawn
on the rod it hung with rings. on the

are very simple and dainty, but 1 wish
had gotten Madras instead of the printe
had goten Madras instead of the printed
scrim. I think ${ }_{\text {it }}^{\text {it }}$ would be pretier,
particiularly if it in blue, to match the blue
n the stenciling.
As to whether the curtains will wash
done. 1 painted some stripes on a a stri)
the
of toe scrim and washed it. for a sample.
Someone was enquiring how to treat
Someone was enquiring how to treat
butter utensils so that the bulter would

in cold water. Leave
cold water until ready to use. We never
have the least trouble, and consider it
have the least trouble
more
salt
convenient than tand consider it
scrubbing with
Have any of the Chatterers used wild prints, keep the mount in nowt the tone
-lematis as on wine for

which it much resembles. It blooms
earlier (in August), and is followed by a


of the veranaa, is a very good screen in



particular care than other seeds, such as strongly the use of sour milk and butter
pansies, marguerite, carnations. elec.



My dear, if I were you It would ust
the printed scrim valance for some other

key border to nateh along the tower
 wooden, rather than rilt tramest even ho says, "he traming of watercolors th
 gold drame, enclosing a wide. white or
colored mount. The only (rame that cann be tolerated with a wide white mour is a a ery narrow one, with a dant
ornament at the corners
 of the parer on which the primt is made
as poushble. but lighter rather than dark-
 passe partoul. This will
news to wellolue Chemsel ves of this method of framing
which is suite the yet devisid for small mielures Scicmists-amone them such emminent tronely the use of sour milik and butter all sour milk makes war ulion the mioften to staggering numbers, in the colon
or harge intestine .loso that these mi-
$\qquad$

Dr. J. ^. Giblbert. wriling in Medical A. Gibert, wriling in Medical

sets forth the alue of skimnilk as a food, appraising it even above
whole milk. "The milk which is richest loveley, everything about itina a room wit cream is not, therefure the most "old" thue rag-rug or Japanese matring reason that a rich milk is less easily dich
 iat percemtnges is low. As far as its long it ankes for chinese primrose $\qquad$
Re Bacteria Essays

The Beaver Circle


China's Three-year-old Emperor Iis auyust majesty, Pu-yi, is seen stand
ing, holding tightuly to the and of
and his lap the Emperor's young er brother. It need hardly

The Lost Pup
$\qquad$
of that, he never barked at a slinking cat,
For he never barked at a slinking cat,
But stood in the square where the wind With a drovering ear and a trembling paw And an murntuu look in his pleading oye
And a tlaintive snif at the passer-by That begged as plain as a tongue could
$\qquad$
$\qquad$
$\qquad$
june 10, 1909
THE FARMER'S ADVOCATE.


WHAT every cook should know is, which wheat makes the best flour, and why. Winter wheat is put into the ground in the fall, but does not ripen until the following July. It matures slowly, is soft and very starchy
Spring wheat is sown in April or May and ripens in August. It's a finty translucent wheat, rich in gluten and contains nearly twice as much nutriment as winter wheat.

## Royal Household Flour

is made entirely from the hard, nutritious spring wheat, carefully selected from all the wheat of this kind grown in Canada.
Royal Household is fine, light and pure-milled by the most improved methods-in a mill as clean as your own kitchen.
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## 

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OUR HOME TREATMENT



superfluous hair, moles. warts.
 miscotit dermatological institute 61 College St. Toronto. Estab. 1892


Wilson's Fly Pads
Imperial Holsteins!

HEREFORD BULLS!
3. LINDSAY, LIMEHOUSE, ONTARIO. please mention this paper.

| for liberty with | ject ". what | h she knew would be madd. |
| :---: | :---: | :---: |
| of light by covering | does that aftuir at Beltuon | he chevalier des Meloises h |
|  |  | O |
| pensity: and in a short time the birds | ch d | that, if he had not obtained the Hand |
| ment as no longer to persist in trying to |  | of the wealthy and bee |
| n an unknown freedom. |  | b |
|  |  | gested the thought that |
|  |  | did propose soon his chances |
| cation which has been gliv ced them to cope with the |  | had in |
| presented |  | wn. |
| , | t; what think sou or it | He h |
| and fearless: so that they ought sel at liberty in a place that |  | he had almost resolv $\qquad$ |
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| they b |  | be easily acco |
| \%hen | decide to do, r | velique would only do her share, as |
| ed. e |  | S |
| They are also constantly gain- intormation about food, for as | you do in that case, bigot | "How \%" asked she, looking up |
| soon as able to forage they taste what | s acerstion | her brothor was driv |
|  |  |  |

## The Golden Dog

Le Chien D'Or

A Canadlan Historical Romance
Copyriggt, 1897, by L. C. Page \& Co. (Inc.)
 The Chevalier did not notice, or
did not care for, the slight touch of darcasm in the Intendant's tone.
sarcher
"Thanks, Bigot!" drawled he. My egg shall be hatched to-night down
at Menut's. 1 expect to have little more left, than the shell of it to-
morrow." "Well, never mind! We have con-
sidered all that, Chevalier sidered all that, Chevalier. What
one loses, another gets. It is all in
the family. Look here," continued he, laying his finger upon a page of the ledger that lay open before him,
"Mademoiselle Angelique des Me-
loises is now a shareholder in the Grand Company. The list of high,
fair, and noble ladies of the Court fair, and noble ladies of the Court
who are members of the Company will be honored by the addition of
the name of your charming sister." The Chevalier's eyes sparkled with
delight as he read Angelique's name five digits stood to her credit. IIf
bowed his thanks with many warm expressions of his sense of the honor
done his sister w. . placiur her name on the roll of the ladies of the Court
who honor the Company by accepting a share of its dividends.,
I
I hope Mademoiselle des Meloises
$\qquad$
" But what will become of the Com-
pany should the war expenditure pany, should the war expenditure
stop . The Chevalier was thinking
of his dividend of five figures :Ooh! you should have been here
sooner, Iles Meloises, you would
have heard our grand settlement of have heard our grand settlement of
the question in every contingency of reace or war." " bride of Pierre Philibert, and the Bigot, sure of one thing," continued " You give one cold encouragement, not, like the cels of Melun, cry will sister! lBut 1 am sure, if you before they are skinned. What says could easily, with your tact and
the proverb. Mieus vaut engin que cleverness, induce Amelie to let me
force (craft beats atrength) The chen Grand company must prosper as the share the Tilly fortune. There are first condition of life in New France. House, and a crow could hardly fly not be amiss, to revictual and rein- "A Perfectly useless, brother ! Am force the colony; and by that time lie is not like most girls. She would we shall be ready to pick the lock refuse the hand of a king for the
of Bellona's temple again and cry, sake of the man she loves, and she Yive la guerre! live la Grande loves Pierre Philibert to his finger-
Compagnie! more merrily than ends. She has married him in her ever!"
Bigot's far-reaching intellect fore--
heart a thousand times. 1 hate
paragons of women, and would scorn cast the course of events, which re- to be one, but 1 tell you, brother
mained so much sulbject 10 his own Amelie is a paragon of $a$ girl, with-
Chapelle-a peace which in America "Hum, I never tried my hand on
was never a peace at all, but only a paragon; I should like to do so," an armed and troubled truce between replied he, with a smile of decided the clashing interests and rival am- confidence in his powers. "I fancy
hitions of the lrench and Finglish in they are just ike ot iker women when
the New World. The meeting of the Board of Man- yof." can catch them "ith their armor agers of the crand C'ompany broke "Yes, but women like Amelie never
up, and-a circumstance that rarely lay off their armor ! They seem born
hapmened-withoul thi" custonnry happened-without the customary d,- in it, like Minerva. But your van-
hauch. Bigot, promecupied with his ity will not let you believe me, own projects, which reached with his ity will not let you believe me,
 terior circle of the Friponne, had cer- whe will give you a polite reply to to


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the company to old (eou

a bay horse
A beorge said

sour firm sixteen years." "has worked for well Ny of George's seven-dollar salary, "an
I suppose you are both pretty high
and

hoses, but and they just dot a doctor for my pay, ",


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Re used the old Rellable Kidney Remedy and found a speedy and
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backache is only a symptom of kidney
troullue, and that Iodd's Kidney pills cure I vellered fromp lackache for two I Also hat hain and accasional atew stteacks of lity wombage ,es were pulted and and at atimen times

and the rasmle is that to-dny I an
anan. indise all persons suffer
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$\xrightarrow[\text { stock. yandes }]{\text { und }}$



 | Quarter-mile open track for showing horses. Northwest |
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| $\begin{array}{c}\text { trade a speclalty. } \\ \text { HERBERT } \\ \text { (Late Grand'』 Repository). }\end{array}$ |



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of gotting rid of either is to dispose
the loo and thoroughy disinfect the pren
ises before introducing cisumd would advise you to get a competent
veterinarian to slaughter and hold a postmortem on one of those that are showing
ne worst symptoms. It is possible my
it diagnosis is incorrect, but a post-mortem

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well as a number of the uneful sort of both sexes. Prices right. Larre
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 Belmar Parc. calf to these bulls. An unsurpassed lot of yearling heifers.SAYHM AHOH'THORNS
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Hoed the warning; ohock the Beclache and dispose of any ohancen of further trouble.
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vory apt to ariso and the first thing you know you will have Dropsy, Diaboteas or
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when I struck PSYCHINE, for I truly be says. - I struck PSYCHINE, for I truly be
when
lieve I shouldn't be alive now but for that f my trouble, and what se med to be a simple ailment, soon developed into a serious and dangerous condition. I got so low
that it was scarcely possible for me to walk round, and I lost so much flesh that I looked like a skeleton. I was just about ready to hand in my checks, although doctor gave me made me worse and I got disgusted. Then I struck PSYCHINE." "PSYCHINE did miracles for me. The and in less than notime I began to put on lesh rapidly, and I felt I was on the high road o recovery. My appenc retred, and My friends were surprised, and hardly new me. In three months I was as strong the mill as ever, and returned to work in since. Nobody could wish for be:ter health than I enjoy, and it is all owing to PSY'.
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THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneous

SALSIFY DUG in Spring Is salsify (vegetable oyster) fit to eat,
having remained in the ground over win

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SUPERPHOSPHATE WORKS NEAR BROCKVILLE.
good many years ago, a firm many Eileville or Brockivile can you tell we on mino at preent trom which th the Wr of the iot con. and tom tom nump


 hip of North Burgess, and is stated t
ontain an average of about 80 per cent
of phosphate of lime." On page 109 , he same report, it is said: "The on
ther location in which any work was progress was that on lots 11 and 12,
the seventh concession of North
Burges


PREPARING FOR TENNIS COURT.
A plot of fairly light sandy soil, fron
een removed in the process of levelling,
to be prepared for use as a tennis
to
court, to be ready next year, or ean
i possible. Kindly give directions as
to
mount of fertilizer (also kind) required
he best kind of seed to toe so as t.
roduce a good sod as soon as possible
the plot is about $90 \times 501$ feet, and $h$ Ans.-In the prepparation of J. A. A.
nd, it is necessary where much levelli
and grading has to be done to keep fif os insure a luxuriant growth of grass. anure or compost. This should
or colle
coroughly incorporated with the soil altivating or forking in. .ight, san
soits, such as you mention. are often
cient in potash, and are l, benefited by e deeply and thoroughly the soil ${ }^{\text {T }}$ cass when it has been secedod down. Court Lodge, Egerton, Kent, England,



 High Prices. * WRITE US. E. T. CARTER \& CO. 84 Front st. E. Torovto. canada

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FAIRVIEW The greateot A.R. O. herd HERD HOLSTEINS








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P. D. EDE. Oxford Gentre P. O., Wood atock





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& \text { RECORD-OF-MERIT COws. }
\end{aligned}
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Oim Record of Merit dams; also a few good cows
reasonable prices. Sunny Hill Farm No morne Holstect.

$\qquad$
Telief at night 10 git home and away
from this ceaseless, asking, of quastions.,


Do this with your children School children should be fed plenti-
fuult and freupectly on Quakere Oats
It males the beet possille break fast for anyone who is to work with cith
brain or muscle. It's casy to prove th consumption of
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$\qquad$
$\qquad$ Quaker Oats is made at Peterborough Canada.

THE FARMER'S ADVOCATE Miscellaneous.

IMPORTATION FOR EXHIBITION Would Clydesdales registered in Canain crossing the line for exhihition pur poses, if they were registered in American Ans.-Animals imported into the entitled to entry under bond for their exportation withon six monthed at over $\$ 100$
of importation. If valued at no such animal will be admitted to entry cate fully describing the animal, and set ing forth the value thereof
POSSESSION OF FARM.
A rented a farm from B. B. B said h
could rent it until he sold.
B sold to
and did not notify A. 1. Can C, or another man appointer by C, forbid A from working on
place or using it for pasturage? den to use place, can Cocollect damages 3. What can he collect for pasturag 4. If C can't stop A from using
an he come on B for damages?
N . B.
 would be entitled to collect would be b
way of damages, and the amount woul
be whatever be whatever the court or a jury migh
consider reasonable, having regard to al consider reasonable,
the circumstances.
4 .
$\qquad$
BORERS IN PEACH TREES PLANTING BERRIES-BEST EGG-LAYERS

1. Can borers in peach trees be killed
If so, what will do it, and what time
of y, yen What can be used to stop the young in tree be saved that has them already in
Will whitewashing them the sarue as the pple tree do any good?
2. What time of yeur do you advise
Hanting strawherries and raspherries lanting strawberries and raspberries
nd what varieties are best for tabl
se?
se Ans. - 1 . The only reliable means of get and
reess is to grob them out with a shar
kine.
Figg a are laid on the trunk Whe tree, close to the ground, all throug
We summer. Some advise wrapping ta paper or banking with carth, but ther
is a danger of injuring the bark, an
hence the health of the tree. Washes
隹 arious kinds have been tried, but most ne that seems to the eafective and sn


Fairview Shropshires IMPORTED HORNED DORSETS


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Ashford Ram Show AND SALE, 1909 wal show and sale of REGISTERED

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London, W. C., England,

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Ooughs and Oolds do not call for known to everyone, but their dangeri are not underatood so well. All the most merious affoctions of the taroat, the lugge ning, but coughs and colds.
Too muok stroes cannot be laid apon the edmonition to all personns affectod by tho Incidious anrlier stagoo of throat and lung mane many yearr of suffering, and in the and that torrible soourge of "Cossumption."
Dr. Wood's Norway Plne Syrup is not Sold as a Cure for Consumption bat for affoctions tributary to, and that roung hoeling virtues of the Norway pine troo with other aboorbent, expectorant and soothing medioinines of rocognized worth
 monderful rom dy, it in only yatural that
numaroun pormen havo triod to imitato it.


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|  <br> J. Featherstone \& Son, Streetsville. Ont. |  |
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 Midge, Cuterpularn aid ofter theg geto on the Trese and vid
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and you kill all the invect ETound. $A P T E R I T E$ is a monderful deatroyer of pests and germs in
the soil-and insures big crops the soil-and insures big crops
of sound fruits and vegetables. PD5 Pesme Eratconty ir Fhell (Mor anle by druygenton and didenters.



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There are no soft wires-no weak spots in the "STANDARD.
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## Maple Leaf Gang Plow

## Kid Kangaroo Gang Plow

Three horsef and one man, whe this plow will git nore and better work done in i day than tove horses with iwo men using ordinaly oneffrrow, wall ing plows. That saves:
 Gannot be Equalled Drews barclya fouth hader on odany On Llght Soils. tandy ccile than a no tromy nid Can be handled so much easior Wheels alway wider driver easien: Hol: patent straightener device haidili coments crooked fromtowst uns 'illed men can do perfect plowing with it : So desined the it whe the whe our new straightener device, crooled furons ca

 the horsel Dust-proof whels so

Wiglit Draft a ment, this wold famous plow nelther dust nor grit can work Goto the ade beaning, is built with a large surplus of strength, and heavily which assures long lifo and good work for this braced at every patt that takes a strain, Lightmachine. Trame of heayy theam steel, extra-strong draft is designed into it. Boards are special. Bottoms adjusted for depth by handy levers, and formula soft-centre crucible steel terapered hard simply and quiclsy set for any width from as glass, Every action of the plow is under 7 to 10 inches. Ask more about it, please. the driver's perfect control at all times,

The Cockehutt Line of Implements includes more than 120 styles of plows,
for every soil and every purpose, as well as seeders, disc and drag
hartows, weeders, cultivators, etc, of which we will gladly send you full details upon request
Send for
Illustrated catalog before you buy any farm-implement

Thirty years' practical knowledge built into every implement.



[^0]:    Cheme is tome when the roads atrano

