## PAGES

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No. 1085

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 The "Imperial" is the
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Gasoline Engines
Avery low price. Slzeen 2 to 18 h.-p. Ales ono Gunaille

## Farm Help

Weekly parties of young me
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BOYS' FARMER LEAGUE
 ONE MAN" HAY LOADER

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RE is a real Hay Loader; a genuine labor saver; not a mere hay elevator. It's rightone man is all that's needed to run it loader because delivery pushes the hay well forward on the load where it can be easily handled by the driver
DAIN EXCLUSIVE ADVANTAGES
Easy to couple to all wagons without adjustmont. No long, crooked crank shaft to break cause trouble. Geared right to insure ligh rat and greatest hay gathering efficiency y ering rakes and elevating parts operated ogually well on swath or windrow. Works wheels in rear lessen draft and make turning easy.
The Dain Loader is lightest draft, most simple in design and most convenient to operate Gets al the hay, made to last from best materials. That's why it the most popular loader built todaywhy is most widely imitated and just why it ald be your choice
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Fertilizers $\begin{aligned} & \text { For information regarding all kinds os mixed } \\ & \text { and unmixed fertilize-s of }\end{aligned}$
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ant GILSON Gospationeigi



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Harness Repairing Outfit


THE BERLIN SPEGIALTY COMPANY
TO THRESHERMEN


## Better Roads-Better Profits

CONGRETE roads have proved to be the best. Once laid,
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How long does the trip take over bad roads?
How many trips have you made over bad roads this year?
How many more trips WOUI.D you have made if the roads had been good?
Have you estimated what poor roads have cost you-in time of men and teams wastedip ability to get to town when market prices were high-in trouble and inconvenience-and in actual taxes for repairs that temporarily made a poor road better, but that never gave you a REAL good road ?

Concrete roads mean more profitable marketing for your crops, the saving of your horses, more convenience for your family, increased value for your land, and full value for the money you pay in road taxes.

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## Canada Cement Company, Limited

 Montreal, Canada

The Farmer's Advocate

## AND HOME MAGAZINE.

THER LEADING AGRICULTURAL JOURNAL in THE DOMLNION.

PUBLISHRD WERKLY BY
THEE WILL AM WELD COMPANY (LTMTTED)

John weld, manager
Asemet fow "The Farmer's Adroaete and Home Journal,
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a.


 Mddross-THES FARMER'S ADVOCATE,
THE WILLIAM WELD COMPANY (Limited),
London, Canada.

## Cropping Roadways.

Bad management may exhaust the crop-procropping. Lack of drainage resulds in a loss of nitrogen. Working heavy land while wet puts it
into unfavorable condition. Letting weeds and into unfavorable condition. Letting weeds and
injurious insects multiply is unquestionably bad. injurious insects multiply is unquestionably bad.
The soil is more than a repository of plantfood. The soil is more than a repository of plantfood.
It is a medium in which vital processes are supposed to go on. Beaten roadways bear no crops, and, according to the old-fashioned "rest" theory, should be very fertile. But what kind of a crop would you expect on such land, if fresh-
plawed?

We no
We noticed a striking object lesson a fortnight since at the Ontario Agricultural College. The dify acres or so devoted to field experiments are
divided into numerous plots with narrow paths between, and here and there a temporary paths rond in addition to the central lane. Every year a block of these plots is plowed up and area includes a driveway which has been year's across and sceded with the rest. The course of it was as plain as though a swath had been mown through the field. On this old roadway the oats, sorghum and clover were very thin and short, though vigorous on either side. Yet this
roadway had been "resting" for from one to three years. apparently bad, and, on heavier soil than that at the College, results would be even worse. We
must keep life in our land ty judicious and cropping. The lieaten driveway is all right for a road, but not for farm land

Bush fires in the North and business difficulties in the West should remind us to be grateful for the manifold comforts, securities a
the steady-going, old-set tled East.
$\qquad$

## Nature's Diary.

A locality which is well worth a visit at this time of the year is the peat-bog. Here we can secure flowers. which cause people on seeing them greenhouse did you get them from?"' And they do indeed rival in beauty the choicest productions of the horticulturist.
For the full enjoyment of a trip to a peat-bog two things are reciuisite; one is a pair of waterproof boots, the other a little bottle of mosquito dope.

Peat-bogs are of difforent types, depending upon their age ; those of more recent formation have open water in the centre and a very thin layer of peat-moss, upon which it is not safe to walk, at the water's edge ; the older bogs are covered completely with peat-moss and much grown up round the margin with Tamarac, Black Spruce, and bogshrubs
which belongs to the Gemus is the peat-moss iarity of this moss is that it is continually dying at the bottom and growing at the top.
It is in the peat-bog that we find most of our Orchids. Now people generally have an impression that the orchids are all foreign plants, and
can be grown only in hothouses; but as a matter of fact we have in Canada a great many species. In Wellington County, Ontario, for instance, I found twenty-five species.
The most striking Orchid which we find in our species, growing from two to three feet in height and has very handsome pink and white flowers The lowest petal is,, in the Orchids, called the "lip," and this "lip" of the Showy Lady's SlipAnother Orchid quite
Another Orchid quite common in bogs is the
Yellow Lady's Slipper. In this plant the lip is yellow, while the rest of the petals and sepals are striped with yellow and brown, and are spirally twisted.
scented.
In th
In the shaded parts of the bog we may find with a long purple lip. When we see this species we are apt to-wonder why it is called "stem-
less," when it apparently has quite a long stem. The reason is that a stalk which bears only a flower 1s, botanically, called a scape or pedicel,
while a stem bears leaves as well. In this case the stalk bears only a flower.
Out in the open of the bog are other very Out in the open of the bog are other very
beautiful and interesting Orchids; there is the purple Calopogon, the sweet-scented Rose Pogonia, Arethusa.
Among the low bog trees towards the margin we find yet other Orchids; the tall, yellowish white, ragged-fringed Orchis, the White Lady's
Tresses, with its flowers wound closely ally, round the stem, the white-flowered Rein orchis, with its deliciously fragrant plossoms There are many other species to be found in our bogs, but those mentioned are the most striking.
It is not in the Orchids alone that the flora is interesting. There are the Pitcher Plants with therr leaves shaped like the Pitchers, and delicately colored with red and green. These
pitchers contain a little pitchers contain a little water, and at their
mouths are downward-pointing hairs so the sects crawling into them cannot crawl out again and are drowned in the water. It is believed that these leaves are able to digest the partially decomposed insects, and thus add to the scant soil. ${ }^{\text {The }}$. tive as the leaves. The petals are dark red and arch over the pale green flat-topped style.
Another remarkable plant found in the bog is the Sundew. There are several species of Sundew The commonest being the Roundleaved Sundew. long hairs, and at the end of the hairs are littfe drops of a sticky liquid. The Sundews catch in-
sects and feed upon them. The insects alight upon the leaves probably mistakingects alight
ing drops for nectar, and stick fast. Then hairs begin to fold inward and also secrete a
digestive fluid which digests the insect. It is usually insects which feed upon plants, but in this Some of the shrubs in the bog have very
attractive flowers, for instance, the Sheep laurel has deepp, pink, cup-shaped blossoms, and
the Leather-leaf, and the Andromeda, have clusThere are plenty of other very interesting

## THE HORSE.

Tongue trucks on the wide binde
the stralin on the horses' necks.
Give the horses water as frequently as possible during this season, and in small quantities at a time.

It pays to clean the sweat from the animal's coat b.
night.

An American veterinarian gives this advice on the shoeing of young horses : '"Don't allow young horses to wear a set of shoes more than a month. Have them removed, the hoofs levelled
and the shoes reset if they are worth it."

Rich, concentrated feed, high in nutrient value and easily digested, is necessary for the hardworked horse. This is a good argument for con-
tinuing the oat ration, even though the work tinuing the oat ration,
horses are out on grass.

Be careful not to overheat the horse. Many drivers of drays and delivery wagons in cities take an old straw hat, put holes through it for
the horse's ears, and fasten it over his head to the horse's ears, and fasten it over his head to
protect him from the sun. Why is this not protect him from the sun. Whe farm team?

Occassionally one finds a number of grass
quids chewed and rolled into solid lumps lying quids chewed and rolled into solid lumps lying around the pasture field. This is a sure sign
that one of the horses has teeth which are badly in need of attention. No alarm need be felt at the finding of these grass balls, but have a competent man examine the teeth of the horses in the pasture and locate the suffere
Give the horse an easy pait during the hot gation has shown that, as the rate of speed increases beyond two and one-half miles an hour, the amount of energy which the horse can devote
to drawing the load grows rapidly less, until, to drawing the load grows rapidly less, until,
when 11.15 miles per hour is reached, less than one-tenth of the maximum work can be performed.

These are the days when the argument that during weight. When it is ninety in to carry most drivers of the teams keep their coats and collars on at dinner, yet most of the horses are comsticky sweat, and bearing the collar and heavy harness hot and wet from the morning's work:
The horse would be more comfortable with the harness on the peg.

This is haying. There is one commendable practice which many farmers follow in putting in the loft or mow which is to be kept for feeding during the spring's work with the very choicest the thay is going in in firstce of these days, when few loads of the greenest, freshest, and most nicely-cured timothy, with a little clover mixed,

## Toronto's Open-Air Horse Show.

Tas heid in Queen's Park July 1st, with over 550 horses of all breeds, sizes, and classes, making up one of the finest and most complete workhorse shows ever seen in Canada. The fancy.
high-stepper was there with his knees almost high-stepper was there with his knees almost
touching his nose at everv step and his hocks flexing in equally wonderful style; the fast roadster, trim and neat, clean-cut, and ready for action was eager to show his best burst af speed; the general-purpose delivery horse, well groomed, the various classes of saddle horses showed riding still to be a popular pastime ; the useful pony was not forgotten; and the best of them all were the massive drafters, single, pairs, and
three-horse oteams, sleek and fit with muscles bulging, and champing on the bit, eager to test their strength on the heaviest loads. It was a grand show, and the grooms, one and all, deserve praise upon the way their horses were brought fut. Such a show is a good thing to keep up mean increased altention and better care for a number of animals bearing the brunt of the deivery and dray work in the city. Clean, wellciled harness and shining, newly-painted wagons

Treating Sore Shoulders and Necks. Editor "The Farmer's Advocate
Just at this time of the year, when the horses Just at this time of the year, when the horses binder tongues on their necks and shoulders there are almost sure to be a few injured or disabled horses during the busy season.
Many people are at a loss to know the cause of collar boils, sore. necks, etc., but in nearly fitting collar or to sweaty deposits on the pads or on the collar itself. A collar should fit That is it should be just wide enough at the top to take in the neck without pinching in the least, and be large enough at the bottom to make square pull on the shoulders and not a pinching ctralog por in ble and neck, in order that the horse will not choke nor pull down on his neck when making a hard pull
The best preventive for a horse's neck is to
clip all hair off the shoulders and neck in the early spring before work begins, and to keep them clipped for the rest of the season, Most sores are caused by the collection of hair and dirt on
the pad or collar, and these deposits firritating the pad or collar, and these deposits irritating
the skin. It can readily be seen that if the horse is forced to pull on this uneven surface,
with the continual jerking and pounding of a woose, ill-fiting collar, he will soon have a fair assortme
ailments.
It is too late at this time of the year to consider a preventive, and if a sore has appeared it must be treated. For the ordinary sore shoulder
or sloin bruise, which is usually caused by wery or slan sradden or long continued drawing, there
heavy, sudd heary, suaden rule, a sate and speedy cure. First,
is, as $a$, rolution of wash the neck thoroughly with a solution of
warm water and salt, with the addition of a few warm water and salt, with the addition of a few
drops of carbolic acid. Wipe dry with $a$ clean drops of carbst the spots with sulphur and leave over night. The sulphur has a drying eftect on the sores, and in the morning rub in a liberal arpplication of vaseline. It must also , we ree
membered that to clean the collars thoboughly with good soap and water. taking care to see that it fits properly and wiin not gall the spots, is most important. If this is repeated each night for one week the sores whl be gone, A
little sulphur should be applied at noon and the collar taken off if possible, to give the shoulders and neck a chance to dry and heal. One thing
about this method is that it does not take the vittle ' more elabórate proceedure is necessary. Not much can be done until the boil breaks, after which it should be well washed with warm, soft water at onty-five cent bottle of peroxide of hydrogen and a bmall stock syringe, and clean the sore out with solution of one of peroxide to two of water or
in severe cases, it may be used one to one, Only in severe cases, it may be used one to one, s the a tew drops are necessary to work upon it before it will act, but as fast as it cleans the woun out more should be dropped in until the prepera-
tion ceases to bubble, when its cleansing ability tion ceases to bubble, when its cleansing ability
is ended for that time. Wash clear with warn is ended for that the. vaseline untiil the hole io
water, and, aply coated over. Repeat this each morning, noon and night until the sore is perfectly healed, when
sulphur may be used to dry it up and vaseline sulphur
to heal.
Sore necks and neck boils are far harder to heal. Sore necks may usually be healed by the
same method as shoulder ruises, but it takes a same method as shoudaer some cases, a few days little longer time and, in some cases, a few are the
rest for the horse. Depp-set neck boils are kind that sometimes lay a horse up for a month,
and often criple for many weeks. and often cripple for many weeks
The neck should, of course, be first thoroughly bathed with warm water and carbolic acid, and, if of the deep-set sort a bread or bran poutco
applied for the night. This may be done for several nights if the boil has not broken, as it will tend to bring it to a head, after which to take your peroxide solution and shoot it way down into the boil and clean it out. It will take several apphications and the use of plenty
sore, but by perseverance and
slightly over a week.
Many things are claimed to overcome the tendency to sore shoulders found in some horses,
aloout the only thing of value is good care and good judgment. However. it is stated that salt and water with a little alum in it will tend to harden the shoulders. Another scheme is used for
the shoulders with black lead such as is usd blackening stoves, and can be boupht at most stores at a cent a piece. The lead prod, best it
shiny surface on both shoulder and collar, but it
can be easily overione Another is the sligh can be easily overdone.
application of dry sulphur on the shoulders and neck each evening when work is over, and then
rubbing it out again in the morning. It is not the number of methods tried which cure the sore, the number of methods tried which cure the sore,
but the continued use of the right one.
Elgin Co., Ont.
J. C. INMAN.

Good Care and Long Life. Halustrated in this issue is the, great old horse more for the Standard-bred breed than any other sire living or dead. The photograph from which
this illustration is
reproduced was taken whe this grand old sire was twenty-three years age Note his type, substance and quality. He kind that will last. It pays to take card of good horse, and, even after three years more than two decades of life, his period of usefulness was not over. Many horses become unsound, or through mismanagement. Never abuse your horse. Give him regular feed, work and rest and stretch out his 'working life as long as
possible. It is short at best. Make the most

## Preventable Horse Losses.

 Under the caption Waste on the Farm," a loss in harness. Very few farms in this country are equipped with harness in, as good a condition as it should be. Harness is not kept in the best repair, and is seldom if ever oiled.Here is Here is what our contemporary says: "In the
hands of the careless larmer harness deteriorates very rapidly. Collars last many years with good farmers, while tin other cases they have to be re-
placed in two or three years. The loss is chiefly due

Broken down or weak fences cause much loss. Working horses a gap and wander on to th road, and a day or so is spent searching for them. Stray cattle walk in and eat grass for
which no agistment is obtained, or they find their way to a haystack, and pull out and destro several dollars' worth of feed. Harses find their way into fields of ripe wheat and gorge themelves and die. A valuable two-year-ald, that wire lying about, and gets cut up so much that he has to be shot. Not lorig aga I saw a valuabl draft foal have a leg broken through getting aught in a wire fence enclosing a paddock in instead of in its right yard."

These are some of the losses-which need not take place under proper management. of all
live stock losses on the farm, horse losses are ive stock losses on the farm, horse losses are generally most severely felt. To work the land
the horse is depended upon. The brood mare: is a source of revenue with which the farmer can ill afford to part. A certain horse strength is necessary on overy farm. When a horse dies he must be replaced, or if he is surplus his loss is
a money loss to the extent of his value. Every a money loss to the extent of his value. in the means should be taken to reduce
horses and thus swell the net receipts of the
farm.

## LIVE STOCK.

## Our English Correspondence. <br> round about the leading shows

A fine collection of Bribish live stock was seen at the Windsor Show of the Royal Counties Agri-


A Great Utlity Horse.
Uambe at the age of twenty-three years.
 oiled. If well looked "after itt-is practically weather-proof, while if neglected it soon cracks
Callars are specially subject to and breaks. "The horse develops a sore shoulder through bad driving or a bady-Atting collar, and a piece is cut out of the lining, so that the sore whi not boe to pieces. In a fow the collar, and it soon goes to pieces. In a fow
cases, the harness is even exposed to all sorts of weather when not in use. Following this the writer refers to the loss sustained by the keeper of poor horses. It never pays a man to starve his farmer down so much as poor horses. The loss in this respect is appalling. He cites the case of a man boasting tha he had used only half as much feed in putting in so had saved over $\$ 100$ worth of hay. This same man in a few weeks' time had lost two horses worth nearly $\$ 300$ through bad weather setting in and the horses being in ow in ondition were hot feeding the horses well cultivaticn was badly done and a poor crop resulted.
"Badly-fed horses are weakened constitutionally and are more liable to disease, and they usually die prematurely. A well-fed horse rarey suffers from disease and has a iong working ing
There is another loss directly bearing horses, and one which tes.
not overlook-bad fences.

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$$ Herefo two and two second prizes ; a In Shire horses Sir Wailpole Greenwell sent the

London chimpion, Champion's Goalkeeper, to head a nice group of two-year-olds. Lord Rothschild won in the yearling colt class , with Moutton Nounsuch. In a mood class of maree
with foal at foot $\operatorname{Sir}$ |Walpole. Greenwell won with foal at foot Sir Walpole Greenwell won
with the London champion, Dunsmore Chessie:
Messts Whitley Messrs Whifteey. were second with Mollington
Movement, also a noted winner, and Lord FothsMovement, also a noted winner, and Lord Roths chill took the third prize with Lilioshall
Countess, whose foal took the first prize in its class. Sir W. Greenwell was first both for in three
year-old and two-vear-old fllies. The pre year-old and two-year-old fillies. The plece of
plate given by the King for the best stallion or plate given by the King for the best stalion or
colt, went to Sir W Greenwell's, Champion's Goalkeeper and the champion, mare was his Dunsmore Chessie, the same owner's Marden Constance being reserve.
King showed average classes of Shorthorns. The King showed his great bull Proud Jubitant in hibits of Messrs Dean A. ofgns and Sir Berkerby
Sheffield. His Majesty
 In both the two wifmrall ang the yearling classeo.





38w tswot anvuodbue exizalo M. K

The Barnyard.
Editor of "The Farmer's Advocat
A barnyard is a lovesome thing,
Guess not,
Great Scott
It's hot
The veriest abode of heat,
And yet some farmers contend
To put manure, and let it rot,
and haul it out when Jays are ho
Manure in barnyards ! Nay, but
'Tis very sure there's none in mine
have a sign
The foregoing effusion was suggested by a visit to a neighbor who was hauling out manure on a hot afternoon recently. I presume its destination is the waste-paper basket. However, should you let it be over a nom de plume, as I prefer to re main in obscurity for the present.
Visiting the neighbor is apt to reveal a good many foolish things being done. It may also
remind us of some foolish things we are doing remind us of some foolish things we are doing
ourselves. I ran across a man the other evening who was using a sprinkling can in his garden It seemed to me he might have been better em ployed, as I consider
The recent rains, although rather late for the hay, have improved things wonderfully, and crops in generaf are looking well. Small fruits, espec-
ially cherries, are very plentiful.
Farmers in this, vicinity have invested largely
commercial fertilizers this spring. I feel n commerciau the wisdom of applying artificial oanures to undrained land. I think the tile hould come first
The hired man is conspicuous by his absence on a good many wauld pretty nearly clean up the bunch. A light crop would look almost like lamb. hemselves by neglecting to pull wo stray stulk of wild mustard in the grain fields. A stitch in
time, etc. I rhink rever saw the white clover so abundant as it is this year. The weather conditions must have been ideal for the secretion of honey bees kept in this vicinity. It is a pity that such a desirabfe article of diet is allowed to go to I think you have materially, added to th value of "The Farmer's Advocate" by the add
tion of the New Public Health Department. tion of the New Pr
Oxford Co., Unt.

June Seeding of Alfalfa Condemned. address on alfalifa to the corn growers at Windsor last winter, but there were two points
he made which I consider very misleading to Canadian farmers. One was the recommendatio other was early June seeding,'" remarked Prof. C. A. Zavitz to "The Farmer's Advocate" lately.
"Our experiments here indicate that June is about the worst possible time to seed. June drouth before the plants have gotten a fair start. July seeding is different. If one watches his
chance, has his ground ready, and sows in July or even early in August just atants will go righ get a quick growt, ane through the winter al right. If he doesn't get a rain he can keep his
seed in the bags till the next spring." Our own except that we got a pretty satisfactory fermina tion of seed sown July 21 st without any rain
worth mentioning until the middle of August The preceding weather had been extraordinarily
dry, too. Still, it would be undoubtedly desir dry, too. still, it would fee undoubtedy destr
able to work the land up fresh immediately after
a rain, and seed at once.

The secret of mowing hay easils where a hors fork is used is to dump most of the loads plump
at the back of the mow and keep the hay high
right next the boards. Fach forkful as it falls right next the hoards. and inay he easily thrown
here shakes out loose
to either side and somewhat forward. On the other hand, let the hay drop a short
from the back and the next forkful wed
between this pile and the wall, making it between this pile and the wall, making it ver
ditficult to spread. And if there is any hotte place to work than a hole at the back of a mow
with lorse hay piled up high in front we trust
to be spared the experience. Keep the lack of

[^0]Wooden Vise-Threadcutter
Editor of "The Farmer's Advocate"
I have read with great interest Mr. Linklater's article entitled "Steel rall anvi. ood note lings. This way is very good. I would only advise anybody making such a vise not to make
it longer than eighteen inches. I made mine it longer than eighteen inches. I made mine only a foot long. If made too long the vise ha find that with my vise I can hold a bolt, for cutting a thread on, just as well as my black smith can with his steel vise
The home-made anvil and wood vise reinforced with three-eighths of an inch iron plates cost get an anvil and a steel vise at the hardware store for five or six dollars. Another thing a farmer should have is a
threadcutter. This tool costs not much (I paid only $\$ 3$ for mine) in comparison with its value. I know how helpless I was when a bolt got a hit, or was punched out, before I had the bolt to my workshop, and in a few minutes I have it in perfect condition again. S.K.
Waterloo Co, Ont.

## THE DAIRY

## A Substantial Myth.

A leading American farm journal recently came out so boldly as to call the dual-purpose cow a nyth. to prove that she is not a myth all that a statement appearing in a pamphlet on Short horn cattle recently issued byi the American Short horn Breeders' Association
"T'welve cows in the herd have records, over over 8,000 pounds, that average 9,380 pounds 102 records over 8,000 pounds have been made in the herd. that average 9,122 pounds.
This is just one Pennsylvania. herd. This is just one Pennsylvania herd. There ane Canada, and the United States making high aver ages. What about the cows supplying old Lon don with milk ? The dual-purpose cow is n

Bulgaricus Bacillus in Buttermilk
To preserve a smooth consistency in butter-
milk solu for use as a beverage, many Amercian creameries have been using a culture of Bulgaricus bacilli, which prevents the buttermilk
dividing into curds and whey. A few experiments with it are being made in the Dairy De partment of the Ontario Agricultural College most slimy condition with, in some cases, a least, a reddish tinge. It is said the bacillus is one occurring normally in milk, but experts ar
not unanimous in approving its use or action a an artificial culture. For our own part we did not like the looks of it, and would prefer the

More Water in Cheese from Pasteurized Milk
From experiments in the Dairy Department of
he Ontario Agricultural College, Prof. Dean says
t seems as though the increased yield of cheese from pasteurized milk were a question of mois-
ture. The annount of cheese made from a given quantity of pasteurized milk is about five per
cent. higher than from unpasteurized of the same composition, but this extra five per cent. con analyses which have been made by the Chemical

Buttermilk Cheese
cultural College, Miss Bella Millar who succeeder Mrs. 'W, F. Stephen, (nee Miss Laura Rose) in charge of the Home Dairy Work, has been mak-by-products. Cheese is being made from skim milk and buttermilk. The making of cheese from
skim milk is comparatively simple, but the buttermilk requires a little more of a process which is described as follows
Heat the buttermilk to 80 degrees F., as
rapidly as possible, stirring enough to ensure Wen heating. Leave it undisturbed for an hour. enough stirring to ensure even heating. Cover
it to retain the heat, and leave undisturbed for Nithout further stirring drain the curd by viece of cheesecloth over a rack or straing
s the portions of the curd next
arain more quickly, lift the cloth and allow the curd to roll over, thus securing more even 'an nore rapid drainag
salted and packed. The is properly drained it is walled and packed. The amount of salt to use to 5 tibs. of cheese is recommended, but many pre

## HORTICULTURE.

## Strawberries and Weeds.

## ditor "and

Right now is a good time to keep the hoe an ultivator going in the strawberry patch. This ime last year, about every other day, it was aining, deluges sometimes, and as a rule it wa mpossible to get five minutes at the strawberrie every dry minute had to be taken up by pomeThis of course, is from arme his, of course, is from a farmer's point of view. arket gardeners, however, did their best to keep
 an crops. Ks a resul, the heavy the of in nhe whe alf among the rest I have only "home gat ", patch but with so little fine weme ga ummer the grass and weeds got the better ne: in the grass arry patch ghe betcer and lourished This spring patch. shey grew an could not find time to go near them until re ently. As a result the grass and weeds pro ected the plants so well that I am hoving a crop of berries fully as good as last vear, if not bet ter. ' Of course, I would not advise anyone to try etting the grass grow as a protection for next year's fruit, for ten to one we will have no late rosts next spring, but the fact remains that this spring the grass and weeds were a blessing in disguise, although we cannot get around the fact that a great many of the plants will have to be ooted out before the plot can be properly cleaned this year. In fact, in my own case 1 intend to clear out the second-year plot almost altogether, as well as the third year, and depend on the ones year's fruit. As a rule, the spring is advised as the best time for planting almost eve:y kind of "setting out" in contrary to rule, I always do my more time to do it, secondly because I have spring comes any plants that have not grown can be replaced and no empty spaces left as must iee the cass if the spring sets do not grow. fallen for a month or more, and little rain has getting very dry. In order to counteract this drouth nothing is better for all crops than cultivation. Strawberries, especially, do their best if kept well cultivated during their first year's vation helps preserve the moisture, and is of much more value than anything to keep the plants watered artificially I have the cultivator run cultivated, usually every time the potato field is and besides keep all weeds, grass, etc. haying time, from about the; plants and the earth well loosened patch. This, of course, refers to the newly-set cultivated and kept clean third-year plants are ing until blooms are well set. Then T scatter Straw all along the rows and among the plants, for the ripened ve moisture and forms a clean bed arlowed to fruit the first year, plants are not allowed to root. This causes all the strength to be confined to the plant itself, and results in strong, vigorous plants for next year's fruiting. The secmad-year plants are kept free from runners
until after fruiting when a few of the most vigorous runners are allowed to root. The thirdyear plants are rooted out after the fruiting September set to new is well cultivated, and in use of the ground between the fruiting to make and September one could plant it to garden peas with fresh vegetables, as well as keeping the ground in good tilth for the new plants.
Carleten Co., Ont. Note.-Tahing it one year with another we are afraid that grass and weeds would be rather an
expensive protection even in the garden patch, and never advisable where berries are grown on a commercial scale. You were fortunate in get-

JULY 10, 1913
Spraying to Kill Dandelions. of Some interesting experinents in the spraying Prof. J. E. Howitt, M.S. (Agr.), Professor by Botany at the Ontario Agricultural College.
The tests were made on badly infested patc on the College grounds, and have now been conducted for four Years. Results pointed out to the June excursionists were conspicuous. The
sprayed plots were almost entirely free from dandelion plants, while areas outside the plots were full of them. The grass had apparently not trefoil were killed as completely as the dande lions. In one place where too much material was allowed to fall upon a certain spot, the grass, too, was injured. The treatment consists
in spraying with a knapsack or other sprayer,
six times during the saeson, commencing just six times during the season, commencing just
after the first few dandelions come into flower, and repeating promptly enough to prevent dande
lion leaves forming. spraying rake of t the dead dandelion leaves, and
if convenient, water well. The solution consists of two pounds of iron
sulphate dissolved in each gallon of water. Iro sulphate may. be obtained retail at water. Iro three cents a pound, and wholesale at a cent a
pound. Forty pounds at a wholesale cost of 40 cents will make twenty gallons of the solution Which is enough to spray at least one eighth of sale oost for materrial of \$2.40 mer a a mhole
that size. This spring the plots spraved last year were carefully examined. Each plot conThe dandelions in the several sprayed plots nue
 Several correspondents also report good results Trom the treatmen
The
spraying might induce $a$ growth of whoss ns this alloged to have done where tried in England. Prof. Howitt admits that on some land it. might growth of mosss, acidity, which would favor the
corrected by acidity may be easily The spring aiter the spraying, the lawn should lions and clover were killed out. Rhere the dande
Rake when the ground is moist; rake in well and roll A good thick stand of grass helps to keep out
dandelions and other weeds.

## A Land and Apple Show

 in Winnipeg, October \& Apple Show is to he heldportunity
for co mill provide opportunity for complete displays of the products
of the orchard, the land, the forest and waters of Canada. Ás far as it affects Eastern Canada
this Land \& Apple Show offers the East an excellent chance to increase its market in the West include fruit. Some of the big cash prizes will
ind prize for the best 2 bushels of
wheat. with Wheat, with a second prize $\$ 150$, and a third
\$100, $\$ 100$; for oats and barley $\$ 100$ as a first prize,
$\$ 75$ second, and $\$ 50$ for third. In the apple best two boxes, $\$ 100$ for awarded $\$ 200$ for the the third. A cash prize of $\$ 100$ is also to be
offered for the best sheaf of alfalfa. The Secre ary is Chas. F. Roland, Winnipe
"The fact has been determined by the United
States Secretary of Agriculture," and notice is duly given, that the Browntail and Gipsy moths us knew that a good while ago, but this 1s
official.

## POULTRY.

## Killing, Dressing and Cooling Poultry.

propery few farmers and smaller poultry raisers to command highest prices. Central feeding dressing, and packing plants have been established in many cities of the United States, and a rew in Canada. A good outline of meth ds carthe Unlted States Year Book just issued. There is a great opportunity for many poultry raisers many good things may be learned from the Year Book report which follows :
Formerly Formerly chickens were killed to-day and
eaten io-morrow eaten to-morrow, becuuse decay could root be
checked for any length of time. Then, as the checked for any length of time. Then, as the
farms were pushed away from the edges oi the

## THE FARMER'S ADVOCATE

the dressed birds until they could reach ilve coning of matter nf a week, perhaps. The soakand firty heads soluble , and the gradual dissolving out of the quality and indue lesh eating The people induced decay
ver, than the cities faster, howfarms. The hauls soon multiplied on the near-by wagons, and then the vice. Each year for 20 was wall roads have been carrying to eastorn warcities dressed poultry from wider radius. Texas turkeys and Oklahor chicker are sent to New York and San Francisco, and such are the wonders of the modern methods of handling perishable foodstuffs, they usually reach these distant centres in better condition than did the ice-packed chickens years ago after travelling only a hundred miles or so. In these days of food shortage and enforced conservation of means by which distant sources of producrion the made available to the nation, and such delicate commodities as dressed poultry delivered in good
order to a consumer living a thousand miles or order to a consumer living a thousand miles or
more from the place where the chickens were Good handling
facilities which can not be maintained necessitates individual farmer. Dressed poultry is now a business by itself, and a great industry has grown up
to attend this work. Therefore, when the farmer's flock has reached a marketable stage be sells it to the poultry packer, or to his agent, and the birds reach the packing house located in the producing section in great wagon loads.
and are always nervous and tired; hence they are and are always nervous and tired; hence they are
not in condition to be killed. Many, of them are thin, because comparatively few farmers feed packers from 10,000 to 30,000 birds, housed in specially constructed feeding batteries, are given clean grain mixed with buttermilk for from seven to
fourteen days. The seven-day feeding great improvement in the flavor and tenderness of the flesh; feeding for two weeks causes young
birds to double in weight if they arel vigorous and of a desirable breed for food purposes.
They are also clean, because dirt prevents the birds from gaining weigit. What progress this
wholesale feeding represents is better understood when the juicy, milk-fed, bird is tasted and comand near for a living, and eats from the duughill $a$ large part of the cime. The new system of crate fattening is an outgrowth of an old custom on many farms of feeding mill
grain for several days before killing.
After the feeding period is over the binde should be starved for twenty-four hours, l.aving a plentiful sufply of clean water only. This practice results in almost completely emptying
the intestinal tract of food in process the intestinal tract of food in process the practice of eviscerating when the bird is killed. It may be said in passing that the vis-
cera should nat be removed until the bird is about to in cities, of permially habit has developed, draw the birds before sending them to the consumer. If the housewife had the drawing done
in her own kitchen the bird would be in a more in her own kitchen the bird would be in a more sanitary condition, and she would frequently find
evidences of unfitness for food that disappaar with the removal of the entrails. pared the poultry for market the process of killing and picking was an individual matter. Some simply chopped off the head,
dipped the carcase in water heated to the steaming point to loosen the feathers, rubbed these off and, if the weather was cool, kept the bird out-of-doors, or in a well-ventilated room until it
was taken to the market. Poultry was taken to the market. Poultry so prepared
has a greatly shortened keeping time, and the has a greaty shortewed keeping time, and the eating quality ${ }^{18}$ lowered even before decay has
begun, because the desirable "ripening" that does. so much to improve tlesh does not occur.
many and various, but they are being so rapidly replaced by better methods that it is scarcely
worth while to give space to their description. Worth while to give space to their description. hest procedures known for the dressing of poultry to preserve quality and prevent decay, for these
methods only can be used if the bird is to travel
long distances and be kept fresh for from two to
three weeks before it. reaches the table of the In some houses men kill the birds by cutting the Then that portion of the brain tissue which controls the muscles holding the feathers in piace is destroyed by a thrust of the same knife and the feathers are so loosened that they are easily
pulled out. The cutting of the blood vessels in the proper way permits the blood to drain out of the carcase until it is practically blood free. This is essential, if the bird is to keep well, and is a part of the process of dressing that is too
often faulty. In order to accomplish this bleeding the vessels must not only be cut properly, but the bird must be held head down while removing the feathers. The scheme used in the killing
room permits this, prevents the feathers from be room permits this, prevents the feathers from be ing contaminatled to handle bird very quickly, less than two minutes being required for killing and the removal of all except the fine down pnd pin
feathers. When the feathers have been removed, ceathers. When the feathers have been removed,
the bird still hung by the feet, is taken by the bird still hung, by the feet, is taken by
womien and "pinned" or "tipped", as the Western phrase goes ; that is, the fine down and the close growing feathers are plcked off one by one.

This system of killing is known as the "frame" method" and has resulted from a selection and
comhination of the best features of the "string and "bench" systems. String killing has been most commonly used. The bird is hung by twisting a cord around the feet, "bled" and "brained" and the feathers removed while it hangs head
down. A vessel fastened to the head of the down. A vessel fastened to the head of the
nird catches the hlood. In "bench killing" the head of the chicken is held by means of a hook, the legs by the hand of the operator, and after killing the feathers are removed.
Frame klling" keeps the bird upright, presurfaces as with the string method, and holds the bird even more firmly than does the bench method, because the feet, as well as the head, are supported.
by the systems of handling is further emphasized by the system of pinining while the birds are hung work, and is vastly superior to the old "lap" Pinning by the lap method means that the skin of the bird is constantly being rubbed over held by the neck, which prevents the dralning out of the last portions. of the blood
modeanliness, being one of the watchwords of from blood and neatly wrapped in paper, ind the feet must be scrubbed if they are dirty. This is generally done just before the birds are sent to

Chilling
The up-to-date packer no longer uses ice to
remove the animal heat. He uses mechanical re rrigeration and provides clean, insulated rooms in which a temperature of about 32 degrees $\mathbf{F}$. it constantly maintained. The chickens are hung b
the feet on racks made entirely of metal. Low temperature, as we know fom practices, is used to inhibit decay, which it does by slowing bacterial growth and enzym action When chickens are alive their temperature is 103
degrees F . This must be reduced to 32 degree degrees F . This must be reduced to 32 degreee
F ., or less, before the birds can be packed for long hauls in refrigerator cars.
The time required to chill the fowl is usually about 24 hours, and the packer must be sure tha from heat before the birds leave the chill room It is a failure to observe this requirement that
is responsible for much of the bad-conditione is responsible for much of the bad-conditioned
poultry in our markets. The range of tempera-
ture permitted ture permitted, too, is small. Beluw 80 degree proceeds too rapidly to permit of long hauls to distant markets, and a routine of marketing such as our urban life now requires. Of course, the and so can be frozen hard after they are chilled and so shipped, and this is a very excellent plan
especially if the haul is across a hot country

At the end of the 33nd week in the second
North American international egg-laying contest at Storrs (Conn.) Experiment Station, the White Leghorn pen, ( 5 birds) owned by Tom Barron,
Calforth, Eng., were in the lead with 798 eggs.

## No Rival.

Please find enclosed express money order for \$1.50 as payment in full of my subscription for
"The Farmer's Advocate" for one 'year other papmer could fill the place one 'year. No Simeoe Co., Ont.

## FARM BULLETIN.

## Hot Weather <br> By Peter Mcarthur

When the weather is so hot that you feel uncomfortable sitting under a trree, or lying in the
shade it is altogether too hot for anyone to be shade
working in the sume too hat it is anyone to hot be that
the ducks are pantinc, and when they ho that it gives you an uncomportable feeling, as if some one had been leaving gates open. When a duck opens his beak and keeps it open it looks as if the
top of his head were coming oft. Sho top of his head were coming off. Shoo I Get something around that looks so hot that my temperature rises just from looking at it. Now I think I shall sic the dog at the cows. Al-
though there are plenty of good shade trees in the pasture the whole herd is trying to crowd under one scrubby thorn and the heat of their bodies must make that spot a lot hoteter than the
hottest hill-top in tho full glare of the sun Ii hottest hill-top in the full glare of the suan. IR of to other trees where they would be cooler. Bnt if 1 send the dog after them he will come
back with his tongue back with his tongueg hanging out, he will will loome
so hot that Thl feel hotter han had better leave things alone and stop thinking
about the wean en en about the weather. The easiest way to do that
is to start is to start thinking about something else. Let
me see.

How would it do to meditate on some way of
saving unnecessary work? That should prove good subeces sar or day whet should prove a.
work. Well, it occurred wh it is too hot to that a great many men waste about one day a year, on an average, by going out to vote a party, no matter what happens, it is pure same of time for them to vote at all. The party
managers on both sides know exactly how they managers on both aides know exactly how they
are going to vote and simply draw a pencil mark
through their na are going to vote and simply draw a pencil mark
through their names. It will be a pure waste
of time to canvass of time to canvass the for fither party. wall to shake hands with them when they attend a
political meeting-just to keen then Now it seems to me that if all these men hum save the day that they waste on the election it would help them to catch up with their work so that they wouldn't be so much rushed. Work How
would it do to pass a law making such men lite members of their party, and allowing the party manager to cast their votes for them ?
arrangement could
If that arrangement could be made the would not need to give the matter another thought but neould
go about their work, secure in the knowledge that co
their votes were being cast just as they would have cast them themselves. Aust as they would
ture of ture of this scheme is that it would save some
work for the party managers work for the party managers. After checking off
the life. members in both narties they could the devote all their energies to the independents en to those whose votes must be bought. It seem


Main Building at Ontario Agricultural College.
Including President's residence and offices, college post oftice, students' dormitories, and students' dining
room, the latter soon to substitute oom, the latter soon the substituted by a new and sep arate dining hall, for which and ground has been broken.
work could be saved, and th
tion would be just the same (I have just tried this suggestion on a lifemember of one of the parties and he got so hot
about it that I am afraid I have made a mistalce. A matter about which you can start a political argument will not do for the hot weather. Let us change the subject.)
and intervals of lying in the shade rows is being cultivated. As the ground was tall plowed, fertilized, and given six strokes with a ask harrow this spring the cultivating and hoe there will not be a weed, thistle, blade of grass or capillary in that eight acres by the end of
the week of playing baseball and pitching horse shoes the work is being done with surprising rapidity.
The only difficulty is that we never seem to be working. When people are really worizing they growl at their meals and get mad if they see the children wasting energy at play. They have been taught that. work was laid upon the race as
a curse and they do their best to see that it is a curse and they do their best to see that it is
a real curse. If they happen to get done sooner than they expected and have no work to do they oroceed to make work for themselves and every.this is none of my businesc. "Every mat al his taster" as the woman. said when she kissed .

The young orchard is proving a surprise. A had se mentioned before, the trees were in a very mainder biscuit after a vorage." Pry as the rome they would not grow, but having prepared the ground for them I took a chance, while culti ating this week I examined every apple tree and forty-one trees all have lived two hundred soven, but the rest are growing lustily. II am glad I did not take the advice that was offered when they arrived at the station in a broken box
from which the packing had fallen during a disgracefully long trip of twelve days in coming from the nursery. They really should not have began to than two days on the trip for when began to get noisy and to bother the railroad one day. The other eleven days were required or the trip from Welland to Hamilton, But af cent. Of them hatment they got about ninety "per able to tearn from grown, and from what I am lots that were supposed to be delivered pronerly this percentage is unusually high. The McIntosh Reds and Snow apples sufiered the most, but the
Russetts, Greenings, and Spies did Russetts, Greenings, and Spies did remarkably
well. Some of the trees seem to be bursting with hife, and as the littlest boy remarked, "They ar growing from head to foot." Some of them have sprouts coming out every fow inches from the
ground up. I suppose I should break off all the ground up. I suppose I should break off all the the
sprouts below the head, but I shall ask someone who knows befure I do it. ${ }^{\text {I }}$ do not want to

- a
give the trees any unnecessary shocks for the have had enough already. And that reminds me that I have heard gloomy fonebodings about these "'They even though they are growing so well. get badly dried out befone the planting always die the second year, if they do not die at first." That sounds pretty bad, but I have known many prophesies to be defeated by a little car growing vigorously in well fertilized ground, and are kept well mulched so that those pesky capillaries cannot take all the moisture from thei will pull through aceat very fair, for when they learned that the orde had arrived in bad shape they did not ask for their pay until we had a chance to see how many the railroed pay for the ones that did not grow for they were certainly to blame for being so slow in delivering the trees.

We planted one hundred cherry trees as fillers but I am afraid they suffered pretty badly from the exposure. As yet I have not had time to xamine them tree by- tree, but while cultivating A few are showing considerable vigor, and hav put out a strong new growth, but the most o them have apparently started and then stopped with the leaves only partly developed. On som yellow and withe:- Still I am hoping that mosi of those that are showing life can be pulled through by careful iwork. When planting them he cherry trees did not seem to have such goo ints as the apples-they were badly broken an brella handles than young trees. But I am no pose of so very much about them, for the pur oose of the planting was to get. a good apple be satisfied even though the fillers may be some what scattered.

Dry Weather in North Perth. Editor of "The Farmer's Advocate": the many letters printed thereing paper and enjoy very backward season with us about Listowel. hrowy frosts till within by lack of rain and by then we have had rain, but the ground is still very dry. Hay will be a very light crop. New headows are badly injured by frost. Grain and farmers having turned the Perth Co., Unt.
P. T. BRISBIN.

That the banks must be instruments, no aasters of business, was the keynote of an dent Woodrow United States Congress by Presirency reform. Filsom, urging banking and cur houghtful paragraph Twithe tyrannies of business, big and little, lie
man cannold of credit. We know that. If a man cannot make his assets available at pleasure, his assets of capacity and character and opportunity beckoning to him on to him to see others have the keys of credit in their when and treat them as all but their own private

Dr. .J. P. Creamer, V.S., Qu'Appelle, Sask. Dominion Live Stock Branch in thitive of the work will be in the Prairie provinces. It is the intention of the Department to initiate a vigorous campaign to increase live stock husbandry in
the West. Dr. Creamer Co. Ontario is Creamer was born in Middlesex inary College, and has uate of the Ontario Veterthe Western provinces for over 30 his profession in

Dr. F. Torrance, Veterinary Director General March last, prohibiting the importation of 24th traw, fordder, feed stuffis or litter accompanying urther period of Britain has been renewed for a

A clump of trees conveniently situated in the pasture is far more valuable protecting the stock
from heat and flies than wood. By all means spare the could be as fireearliest convenieady provided plant them at the enience.
R. B. Cooley, B.S.A., a 1910 graduate of the Husbandry

The International Horse Show. With a record of $\mathrm{t}, 000$ entries and many hundreds of them American, the Internaucional horse Show at Oympia held every prowse of scong a great success. . Over 300 Bruish and foreign officers cook part in the vaizes of the value of 810,000 There wher prizes represented a further $\mathbf{c 2 0 0 0}$ Transformed into a fragrant, cool, and bril-
 the pleasantest place in London during the festival f horse flesh. The lights in the building were nearly twice as powerful as those of previous
years. There were 108 arc lamps in the arena fears. There, each lamp being of 2,500 candle power and sixty-two were enclosed in big ornamental
shades of golden trellis work crowned with gilded shades of golden trellis work crowned with gilded
tops and hung with crimson roses. . Hence the sops and ning with crimson
The stabling arrangeinents were just as elabor-
te as ever. Alfred $\uparrow$. Vanderbilt stalled his ate as ever. Alfred C. Varderbilt stalled his
horses in white boxes, with red velvet casement linds, and further down the same rank were the ozen green and white boxes of his countryman, Edward B. McLean, Washington.
Perhaps the most sumptuously-fitted stalling of
all was in the avenue given over to Walter Winans all was in the avenue given over to Walter Winans,
who has always been a pillar of strength to this who has always been a pillar of strength to thi show. Mr. Winan's color scheme of dark green,
red, and gold, was a magnificent one. J. Sumner Draper, yet another American cousin, had his
horses in white stalls, and Miss Ruth Boyd, New horses in white stalls, and Miss Ruth Boyd, New
York City. had her boxes done up with showers of
coses. not shine ${ }^{\text {in }}$ in the early part of the show, his "coachers", got in to the monev, but A. .. Vanderbilt's lot seemed to have tho whip hand of the
Judge. One of the most important events in Judge. One of the most important events in
connection with the show is the Coaching Mara thon from Hampton Court to olympia, a distance
of eleven miles. For three years in succession the of eleven miles. For three years in succession the
event had been won by Judge Moore, but his
保 sequence of victories was broken last week. The first, thre were thes placed :-A. G. Vanderbirt,
fhird
traig Mckerrow, second; W. A. Barron,
There was no racing, but a time limit for the journey ensures a fast pace. The competition
was decided by the condition of the animals and was decided by the condition of the animals and
vehicles at the finish of the drive. The coaches must weigh at least $25 \mathrm{cwt.}$, unloaded, and must carry seven passengers. They followed each each
other at intervals of one minute. Judge More other at intervals of one minute. Judge Moore,
who started second, was the first to finish, driv ing a mixed team, with greys leading, Craig Mckerrow's Rover coach came next, and there was
then quite a long interval before the advent of then quite a long interval
w. A. Barron on the Venture
Alifed Vanderbilt, driving the Brighton coach New Times of Messrs. Winbush, which started entered by Craig McKerrow was next. J. W.
ner Harvie's four bays then arrived, despite a siight
mishap on the way. Alfred Vanderbilt's other entry came next, followed by Mr. P. H. FHighes Tantivy coach. The eleven miles were accom-
plished just under the hour.
of then the whole drove round, they presented a splendid exhibition. As the teams paraded the arena, it was noted that
Queen Alexandra, who always takes a keen inQueen Alexandra, who always takes a keen in-
terest in horses, manifested her delight at the ex̀ cellent condition, manifested her delight at the ex-
which the animals appeared to e after their gruelling drive of eleven miles in the hot weather. The judging, which was carried Tht by Lord Lonsdale, occupied almost un hour.
The teams were put through their patings round the ring, and in the end, having considered Prointments and conditions of the horses, his
lordship awarded the blue to A. G. Vanderbilt's
splendid splendid team of bays. The award was a popular
one, and as ${ }^{\text {Mr }}$. Vanderbilt drove round the arena he received ioud cherbilt drove round the For the Russian Challenge Cup, offered by the
Imperial Moscow Association for the best fourinhand team shown to a road coach, there were ilt's Venpeturg teams. These were A. G. Vander Wilson ; Judge Moror's team of tight and dark
greys, driven by himself; W. A. Barron's Vivid chestnut team driven by Mr. Tilly ; the same
owner's Venture chestnuts, driven by IIrace Smith, R. Crare chestnuts, driven by Hurace
the same color driverrow's Reynard 'eam of driven hy T. Tage. and Miss A. Sylvia color, driven by T. Tagg; and Miss self. After some deliberation the, judges righ'ly
decided in favor of W . who weere flavor of w. A. Barron's Vivid team
and quinners on their combined power
quality. and quality.
Kerrow's lot ; very good second was Mc-
it
is possible that they might Kerrow's lot; it is possible that they might
have done even better had not the ofi-leader been
making Moore wan undesirahle amount of hyis third succesise. win in in
this event. Mr. Barron is to be congratulated on obtaining the cup as his absolute property.

In the class for pairs over 15 hands, and not
exceeding 15.2 lands, five competitors came forward. Nigel Colinan, having got a new mate in the shape of the five-year-old Royal Simon for his was ablat Yorkshire show-yard hero, Autharity, ner for many years, in this novice class ; and ner for many years, in this novice class; and
although Royal Slimon at first hung away from
the the pole, and refused to settie, the pair finished on well that they gained the place of honor for heir owner. E. Colston's black mares, Carmen handsome a pair as any man might wish mare pars work, and well deserved the secont prizo ; whilst
Howard Frank's Livian and Euckinham should Howard Frank's Lilian and Buckincham should
prove a great pair when the mare settles down to


Coster at the International
her work. Perrhaps the greatest share of admira-talian-hred treys. Thilline Dure Vo fortiand detly matched pair which and familiar to vertors to the Welbeck Agricultural Show as two of the Duchess' team.
Novice harness horses, over 15 and not exeeding 15 h. 2 in., numbered eleven, at the head a short-badied but free-actioned chestnnt by Polonius. J. Sumner Draper's Nimbus, a bay
which gave a good display of level action, was which gave a good display of level action, was
second, with C. Colman's Royal Simon, the horse which had in company with Authority, won first in pairs, third.
in pairs,
Seven big novice pairs formed an admirable
class, in which Judge Moore won with Marcel and


Friends.
Walter winans and one of his International winners
Vida Fayre, a showy pair, but which did not ppeal so strongly to English onlookers as did pair of powerful chestnuts which go perfectly together and are an exquisite match.
In the novice tandems, J. Sumner Draper, all bus and Rillington Nimble being given pride place over Judge Moore's Vida Fayre and Marir. A big lot of English horses were behind them.
A really good final collection of 14 represente
the 41 hacks entered for the Berlin Cup, a trophy with her beautiful bay mare, Enchantress, the winner at Croydon. Her paces and manners are so excellent that she was given the lead over $M$. F. Goodbody's American winner, Beau Sabreur Whe third prize-taker, Cora Pear., shown by she stopped second in her class to H. Caudel she stopped second in her class to H. Trotting has never "caught on" in" this country, and, except for W. Winans, few of ite
adherents possess horses good enough for exhibition. W. Winan's success in carrying oft the whole of the prize money deserves to be placeat on record. He won easily with the veteran Bonnie
View, who gave his customary fine display of fast View, who gave his customary fine display of fast
and true movement, second and third honore falling to Nancy Clancy and Haidee.
and it is pretty action class had a small entry, find the favor they did with exhibitors. Mr. Winans had the bulk of the entries, and owned Nancy noticed by the judges, viz., Bonnie View, Nancy Clancy, Haidee, and Oberon. Progress
owned by H. H. Bishop, of Tregellas, Cornwall won the high jump, with a leap of 7 ft . Thit compares somewhat unfavorably with the American record of $8 \mathrm{ft}, 2 \mathrm{in}$., and Biskra's English ne-
cord of $7 \mathrm{ft}, 10 \mathrm{in}$. Tradesman, owped by Thomae Glencross, Weston-super-Mare, was second; whel Biskra, Miss Mona Dunn's famous leaper, only obtained third place. Nome of the high jumpers obtained third place. foreign Anmy offecors and
brought over the fored for the competition obtained a place,
entered entered for the competition obtained a place
neither did the representatives of the British Army. did therican owners did better as the show ad vanced from the novice stage to the open classes On June 23rd the chief feature was the award o The International Gold Cup for whour-in-hands won by Judge Moore, who had before him the same team with which he won a simila competition at Richniond. Once again Miss Eila
Ross, who drove her own team, was second with Ross, who drove her own team, was second with
her blacks, and thus the Richnond judging was confirmed. W. A. Barron took the third prize with one of his several chestinut teams. All three teams acquitted themsolves admirably, and
there is probably very little between them in there is probably very little between them in
merit. Sir Edward Stern took fourth prize with a team of blue roans, which are, apparently, a good deal slower than any of the teams pleced Mel-Valley's Faine made a fine show in the open pony class, winning for Mr. Foster yet another first prize. Mel-Varley's Flare stood fourth. In the Pace and Action Class Walter Winans had matters all his own way, and his six shown. The welght-carrying cobs- 18 came in-were a novelty; the winner, Mrs. Chapman's Cafe Noir, has nice manners and appears to be
easy to ride. In the class for double-harness easy to ride. In the class for double-harnese Queen of Ayr added another to their long list of
victories. Judge Moore's Menella and Phyllit victories. Judge Moore's Menella and Phyllis
also gave a fine show. Were placed second. In single harness horses between $15 \$$ and 16 American horse Nala previous winners, The antith a newcomer with al did not altogether please the though very decided placed fourth. The winner was T. W. Simpson? Argo, who had been beaten at Richmond. Hie gave a delightful show now, beating Judg Moorr's Bountiful, who last year, when known as Medium-sized pai and here Judge Moore was first with Lord Seato and Lady Seaton, well-known prizewinners o Nglish pedigree.
good hiding in the 15 to to 16 hands class from a W. Simpson's Argo, a great free gol chestnut, full of true Yorkshire blood. Second was R Judge Moore's Terrington Bountiful was third while E. B. McLean's Nala was only fourth. Judge Moore's Menella and Phyllis and McLean's Lady Dilham and Elegant Dilham were relegated pairs over 14 and not exceeding is hands Philip Smith's Cheshire pair Melbourne Princess and Queen of Ayr champions all over England for London, England. G. T. BURROWS.

Canadian horses did pxtra weli at the Inter Three of Hon. Adam Beck's horses, London, Ont ir James, Sir Edward, and Montrose won th team prize against the world. Sir Edward and jumping abreast out of 97 competitors. Si James won another first prize in a jumping con st, and Frontenac also from the Beek stable W41 entries from all nations. Hon. Clifford Sil ton's horses also competed. at Olympia, and got
in the money in several of the classes.

IHE FARIVER'S ADVOCATE

## Co-operative Selling in British Columbia.

Okaraens and orchards are busy places in the Okanagan Valley of British Columbia these days. Fruit. crops the country over seem to be light. Nature, in, her almost unprecedented effort of last year, seems to have exhausted much of her crop, and a frost slipped through' the lines taking crop, and a frost slipped through' the lines taking had this fall. Still, even with this set there 'is plenty of work in the orchards and small-fruit ranches to keep us busy.
Some of the later-blooming cherries went down here. Apricots seem to have held their own, and during the past week many acres of apricots have been thinned out. Thinning pays well.
One orchardist claims that he increases his On orchardist claims that he increases his
profits by over 60 per cent through thinning if he can manage it before the stones form. effort that the tree must put forth to form the II this heavy tax is prevented it the heavy drain If this heavy tax is prevented, it tends much to ward overcoming the condition of one year
heary crop anid the next year a very light one. Our dreaded enemy of last year is back at again. The heavy cutting of our trees has not
eradicated the "Blight," and those who looked for a crop of apples are having to cut into this crôp pretty heavily, Spitzenburgs are the worst
and orchardist after orchardist is "June Bud
 MacIntosh Reds or Grimes Golden, which seem present wret con wenl immume cot out the smadisease. aftected
branches, the twigs and fruit spurs, but we are hoping the Department of Agriculture may find some way by which we may be able to locate anding, the "hording the fall and winter or blight is spread by insects.
edvenced upall truits, tho such as tomatoss, were well shower almost ant deal of cloudy, weather with a shower almost every day and one or two regular
down-pours, something very unusual in the dry
delt belt. This may put the fruit back a few days,
but if is hard on the fruit it is good for the alfolfa, and there is a splendid crop of this
reany to cut.
Everybody is using it here. Pigs are getting fat on nothing but alfalfa, two car
 Perhaps our great selling movement is the most talked-of among all the business moves in
agricultural marketing.
From one end of this valley to the other each centre, where fruit or vegetables are grow, has organized a Packing
Union of its own, makes its own by-laws and buys its own own, makes its own by-laws and
Central Selling Doxes, paper and supplies. One sells it all, supervising the pack and finding the market. Already much of the apple crop has
been placed, netting the grower $\$ 1.10$ per box (pretty good for every 125 or 1300 apples).
Most of the peaches have heen placed at 70 cents per case $F_{\text {, }}$ O. B. at at the town where they are packed. These pack 60 to 8 per box, some
letting them run a little smaller, running into letting them
This marketing system is an experiment, and
the other companies are still in business. a number of the growers are marketing their own ing this new selling plan, it is not having plain sailling, but must "uake good" before it can
command the support of all concerned command the suport of all concernect. The
Proviscial
asistance by assistance by way of a cheap loon. This alone is
one of the best indications that they may one of the bast indications that they may make
a success of the venture, as it gives them ample a succe
capital
The way in which the new Selling Agency has dealt with the wholesalers to prevent them retting
a big slice, or, on the other hand, to prevent an expensive fight by cutting them out altogether
till a sure footing has been gained, is to through them at a 10 per cent comemission. This
has its advantapas and its disand has its advantages and int disandvantages, and
only time can tell whether it is advisable or not. only time can tell whether it is advisable or not.
We all hope the new scheme mav prove a sucany year it wwill have har more in it some taver that than a year
of light crops is the best for the for of light crops is the best for the fruit and garden
men.
B. C.
WALTER M. WRIGHT
"The Farmer's Advocate" is ivformed hy Dr
Torrance. Veterinary Director General that Ministerial Order has been issued prohibiting, for
period of three months. from 2nd July, 1913 a period of three months. from 2nd July, 1913 , ${ }^{\text {n }}$,
the shipment into Canada of cattle, sheep, other
 carrying horses from Continental Europe.
trel

## Binding the Farmers' Advocate.

 Editor of "The Farmer's Advocate"; of the year 1913 appeared and contained the in dex of the half of the year - 1 got at the ju of binding them myself.I saw an inquiry about binding "The Farmer's Advocate"" on page 1014, I thought to submit
my plan for tne benefit of others. one magazine after another, beginning with the first one that appeared. I lay this on the second one and these two are put on the third, and so
on, till I have them altogether. I then separate them into bunches containing from four to six magazines or issues each. These bunches are sewn together with a darning needle and cotto yarn as near the back edge as possible, taking
great care that the front edges are ovjn. II punch holes with an awl to make sewing easier. The next thing is to get the bunches together The bunches are luid upon each other and acloth wear) placed over the back edge. The whole bunch is now sewn to this cloth by sewing lie tween every three issues, letting the threads right aingles. II this is done correctly the result is a strong book
The third thing is to get the cover m . The cloth, placed over the back, must be left at least
three inches two cardboarlls pasted torether will make a good cover. This cover is pasted on the cloth sc as to cover the whole bork completely and neatly.
A fancy cioth is then put over the who:e book cover to strengthen and heautify it. The cloth must be a litle larger, say two inches, on all
sides. At the back of the book as hroad as the hook is thick, the cloth is turned in and pasted on itself before it is pasterl on cover. Aiter it
is pasted on, the sides are neatly turned in the corners made as neat as possible, and a stron
paper of the proper siza pasted on the inside paper of the proper size pasted on the inside of
both covers. T made this iob as neat as pussible and it saved me the rxpense of a professional bookninder, and, as I did this work on a rain
day it practically cost me nothing
Waterloc Co. Ont.

## Road Work and Road Roller.

GOOD ROADS AND THELR GONSTRUTION The roads of Canada are, at present, in a
notoriously bad condition even like, this. And yet it is not in the newer parts of the Dominion that the worst roads are to be
found, but in the older parts of Ontario and the Maritime Provinces. In some districts the roads Some a succession of ruts and mud holes. bad reputation for the thickinescquired quite the mud on the roads.
The condition of the public roads is a good
indication of the status of a community bod indication of the status of a community, both
commercial and social. Wherever lad roads pre vail, the farms and homesteads in that vicinity neglect and mismanagement. same condition of
nut, on tho hand, where the roads are well built and kept in ford condition by repairs when necessary, the
farms are correspondingly well maintained on a paying basis. well managed and It seems that, so far as good roods are con-
cerned, the people of the Eastern Provinces need not depend on the governament for their main the burden of keeping up the public roads will fall, yet they have still to pay taxes that are supposed to go to the building and upkeeping of
the roads. I I have noted that whatever is the reason very little of the money collected by
taxes, etc., is spent on the rand percestac., is spent on the roads, and a large
perentae of what is put on the roads is spent
where it will it will do little good.
I can cite one instance in which the sum of
three thousand dollars was spent struction of a road and bridge. spent on the con-
This road was
built for the purpose suilt for the purpose of shortening the road to
market for about one hundred people. The public road here runsed in a northerly direc the east for the distance of about one tand one half miles. Across the triangle thus formed the
new road was opened; before the rond conld new road was opened; before the road could be
of use to the public a bridge had to be built.
The three thousind The three thousand was spent, and the roult.
is yet in an unfinished condition and is likely to
remain remain so. If the road is not finished, the the
money spent on it will he sinty tar it has been of no use whatsly wasted. So except as
an easy way for the nearest. farmer to drive his cows to pasture. spent on this bridge and road trict, it would have placed ten miles of that diss
a first-class condition, and the people of $a$ larg in

grumbling, and these are bad roads and bad
weather. The former he can remedy in many ways. The latter he has only to put up with I can mention one case in which the roads o most parts of the country, namely, a successio of mud holes and ruts, with an occasional gutte thrown in. It did not appear as if the govern one day the clergyman of the place, a progressive and up-to-date man, asked the people to spend at least one day's labor on the roads of tha district. This part of the country is not very populous, but every one of the male population
over sixteen years of age turned out. After one day's work they saw the need of more, some even pent three or four days' labor on the roads. The results were very gratifying indeed. The paired, and made as gutters and culverts were $r$ Passing a gang of
Passing a gang of at least twenty men I
noticed that they were not working in the manner usual to most farmers when working their statute labor. They did not look as if worked were taking their ann
But they lacked one thing and that was a
good heavy roller, which is a chief necessity when good heavy roller, which is a chlief necessity when
building a dirt road. For without building a dirt road. For without rolling, th dirt ge
useless.
When building a dirt road the best method to follow is to first level off the foundation and rol till it is as hard as it is possible make. The inches, roll this and put on the next layer fou roll, continue in this manner till the road is the desired height. It is best also to have the may flow into the drains instegad so the wate the road to render the soil soft and easy to dig into ruts.
In some districts a steam roller is an impossiyet it is possible to construct from a large town etit is possible to construct a home-made sub
stitute that will do creditable work, and, at the same time, last a number of years.
logs, preferably of hardwood, allout six feet lon and about one foot in diameter, bore a two-inch old bushings from a carriage. Next, construct rame of 4 by 4 inch stuff, large enough to have wo logs fit inside. Have the side pieces six a hole and insert a piece of iron large enough to fit in the bushing as axles. Now, you have two rollers in one connected by the frame. Beneath of the frame. On this frame a load of stone other suitable weight can be placed so as to mak he roller of any weight desired. To save time in turning such a machine, hooks are fixed on t end. Thus, when the roller is hauled one way on the road, to take it the other all that is heeded is to unhook the pole from the frame and the pole to the hooks on the other end of the frame. The turning of the machine is its onl drawback, and this is quite overcome by the de siderations in favor of this type of the chief con it can be adjusted to any weight desired.
Unless very heavily laden four horses should at any time, be enough for this roller, and wil is very good work, especially in places where it roads of a district where rolling was not befor practiced will result in a marked improvemen The a very short time
seen, and its first cost is comparatively small, be the woodwork can be done by any handy man and the "village blacksmith" will do the iron this roller is far better than if left unrolled, by the surface will be level and hard, heing imper t, rendering it re, the water will not soak int rendering it soft and muddy.
Cape Breton, N. S. JOHN H. Macdonald.

## The Soldier Bug.

I met a good friend this morning while hoein potatoes, and, as I have neither seen nor hear would like to tell you about him. He wore a coat of arms, yellow was securely fastened to a good-sized young Bua," which matters little his name is "Soldie continues to destroy these pesky thing as he which he evidently has a greater love than most
of us. I would like to see reports in your paper of desciple of arms," as I believe this, "bug-eatin
able to all potato prowers. Ont. Co.. Ont. growers. "BurnBrat

JULY 10, 191
THE FARMER'S $\mathcal{\sim}$ VOOCATE

## THE ROYAL BANK OF CANADA

Capital Authorized - $\$ 25,000,000$ Capital Paid Up- - $11,560,000$ Reserve Funds
Total Arsets HEAD OFFICE: MONTREAL Branches throughout every Province

Accounts of Farmer invited. Sale Notes

Savings Department at all ranches

## Markets.

## Toronto

REview of last week's markets At Wesr Toronto on Mondey, July receipts at the Union yards numbered 44 cars, comprising 852 cattle, 127 hogs, 137 sheep and lambs, and 27 calves. N sales. At the City yard there were 3 heep and lambs, and 3 calves. Butcher steers and heifers sold at $\$ 6$ to $\$ 6.50$; cows, at $\$ 4.75$ to $\$ 5.50$; calves, at $\$ 5$
to $\$ 8$; sheep, at $\$ 3$ to $\$ 5$; lambs, at $\$ 8$ $\$ 10$ per cwt. Hogs were quoted a $\$ 8.75$ 1. o. b. cars, and $\$ 9.15$ fed and
total receipts of live stock at the were as follows

|  | City. | Union. | Total. |
| :---: | :---: | :---: | :---: |
| Cars | 21 | 291 | 12 |
| Cattle ...... .... | 300 | 4,022 | 4,322 |
| Hogs | 327 | 4,441 | 4,768 |
| Sheep . | 640 | 1,999 | 2,639 |
| Calves | 308 | 1,622 | 1,930 |
| Horses |  |  |  |

The total receipts at the two yards
for the corresponding week of 1912 were lor that ow

milkers and springers.-The market for
slow, dull,




Wheat.-Ontario, No. 2 red, white or
mixed, 98c. to 99c., outside; Manitoba No. 1 northern, $\$ 1.02 \frac{1}{2} ;$ No. 2 northern
 to 35 c ., outside; 36 c . to $37 \mathrm{c} .$, , trat Tc ronto; Manitoba, No. 2 , 400 , No.
38c., lake ports. Rye $\mathrm{No},{ }^{2}, 61 \mathrm{c}$. 32c.,
62c., outside. Peas-No. 2, 90 c.
95c., outside.
Buckwheat-No.
to to 58c., outside. Corn-America,
2 yellow, 65 c ., Midland; 70 c., track,
 winter-wheat flour, $\$ 4.10$ to $\$ 4.15$, sea board, in bulk. Manitoba flour-Prices second patents, $\$ 5$; in cotton, 10 c . more strong bakers', $\$ 4.80$ in jute.
hay and millfeed.
Hay.-Baled, car lots, track, Toronto,
No. 1, \$12; No. 2, $\$ 11$ per ton.
Straw. - Baled, car lots, track, Toronto
$\$ 9$ to $\$ 9.50$
Bran.-Manitoba bran, $\$ 18$ in bags
Bran. - Manitoba bran, $\$ 18$ in bags
track, Toronto; shorts, $\$ 20 ;$ Ontario
bran, $\$ 18$ in bags; shorts, $\$ 20 ;$ midbran, $\$ 18$ in bags
dings, $\$ 21$ to $\$ 23$.

COUNTRY PRODUCE.
Butter.-The market was unchenged
Creamery pound rolls, 28 cc . to 29 c Creamery pound rolls, 28 c . . to 29 c .
creamery solids, 27 c . to $28 \mathrm{c} . ;$ separato dairy, ${ }^{23 \mathrm{c} . \text { to } 24 \mathrm{c} \text {.; store }} \begin{aligned} & \text { 21c. } \\ & \text { Cheese.-Market steady. New, twins }\end{aligned}$ Cheese.-Market steady. New,
c.; large, 13 c. ; old, twins, 15 c .; large

Potatoes.-Ontario potatoes, 75 c . to
85c. per bag, for car lots, track, To-
ronto; New Brunswick Delawares, $\$ 1$ to $\$ 1.10$, in car lots; American
grown in the $\$$ State of Virginia, sold at
$\$ 3.25$ per barrel. Poultry.-Spring chickens, dressed, 30 c
Po
to 35 c . per lb .;
spring ducks, dressed to 35 c . per 1b.; spring ducks, dressed,
sold at 20 c . to 25 c . per lb.; old hens,
18 c , to 20c. per 1 lb . 18c. to
Beans. - - Broken car lots sold at $\$ 1.60$ to $\$ 2$ per bushel for hand-picked, and
primes, $\$ 1.75$, ranging down to $\$ 1.50$,

> hides and skins No. 1 inspected steers and cows, 18 c .;
o. 2 inspected steers and cows, 12 c .
3 inspected steers, cows and bulls,
$\qquad$
$\qquad$

$$
\begin{aligned}
& \text { 26c. per lb. } \\
& \text { FRUITS AND VEGETABLES. } \\
& \text { Receipts of fruit and vegetables ha }
\end{aligned}
$$



## Buffalo.



 ${ }_{50}^{55}$ to 87.50 ; treoh cows and springere.








## Cheese Markets

storiling, ont., 1270. to 12.12 -icoc:




 1380:; Watertom, N. Y., 18.

## Chicago

Cattle,-Beoves, sh.io to \$8.85; Texa steors, 86.75 to 88.10 ; stockers and foed-







## Trade Topics.

Readers of "The Farmer's Advócato" must have read, from time to time, the advertisements of Catesbys, Limited, the famous English house of mall-order tailsupplying made-to-measure clothes by mail. Write to their Toronto offce, and they will sond you, free, a complete net of their pattern cloths, together with a self-measurement torm, and all necessary information that will make it easy to order. Send your measurements with the order direct to London, and your suit will be made up and despatched within five days atter your order is ro-
ceived in London, all duty and carriage ceived in London, all duty and carriage charges paid. This firm maintains that
they can sell a suit here at least onothird cheaper than you would get it from a local tailor, because they buy all their
cloths direct from the mill. Give Catescloths direct from the mill. Give Cates-
bys a trial. Write to Catesbys Limited bys a trial. Write to Catesbys Limited.
119 West Wellington St., Toronto, Ont. and mention "The Farmer's Advocate, and you will receive a set of samplos
and their latest style-book, free, -
THE WESTERN FAIR, SEPTEMBER 5TH To 18TH.-The Western Fair of London, Ontario, will this year, without
doubt, surpass anything ever before attempted by the Association past' preparations have beon. Foing quitily past preparations have been going quietly
on for the great Exhibition the time arrives it. will be found that everything is in first-class condition. Eneverything is in inst-class condition. En-
quifies of ail kinds are coming into the
general oflices and the indications general offices, and the indications are
that the buildings, although enlarged that the buildings, although enlargea
this year, will be filled to overfowing. this year, will be filled to overniowing.
The space in the main building is al ready about allotted. It is expected
that the Agricultural and Horticultural that the Agricultural and Horticultural
Buildings will be crowded, as the fruit Buildings will be crowded, as the fruit
exhibits from the different counties will be quite large and very attractive. The Women's Institute throughout Middlesex County will no doubt make a very atPrize lists, entry forms, and information. of all kinds regarding the exhibition
will be given on application to the Secwill be given on application to the Sec-
retary, A. M. Hunt, General Offices, retary, A. M. Hunt, General Offices,
Room 802 Dominion Savings Building,

The Common Road. (By Martin Schutze, in "Forum. And now for reaches of open road, aun and fowers and fragrance
with sun and breezes and birds in the And the year on the turn in yellow A road not so new it troubles the mind,
Nor so storied, memories limp behind, Where hoof and foot and tire unite,
One large, inseparate tale to write.
Each bird has a voice and dimerent air
Is it trush or y yellow - throat Io it thrush or yellow - throat? Wha The trees tell tales, and the hill streams I do shout; trouble to make them out.
I do not strain after clues that fail,
I do not camp on the edge of the ta Nor teach my feet to falter and stray,

I hear but one great voice abroad Singing the song of the common road When the season's traffic burdens the air
And the sun spreads blessings everywhere

And it 's :- Ever to keep on an even way Never to hasten, never to stay, Nor vainly linger, nor backward yearn,
Onward and sunward, and 'never turn;

Attuned to the one great voice abroad Heeding the call of the common road, When the season's traffic burdens the air
And the sun spreads blessings everywhere

## Letters from Abroad.

on mediterranean shores
My dear Jean,-Alterer a week of hil top life in Siena we have descended to the Arno, and I think the mercury went up as we came down-and it has been
going up higher ever since. going up higher ever since. Yesterday
it was hot enough in the sun to po corn. When we were shivering in Thor-
mina last winter, they told us it was mina last winter, they told us it was
so warm there in mid-summer that the so warm there in mid-summer that the
town was like a fiery furnace, and the pavements to hot that the peasants fried egss or their front steps. I rather
douluted the statement at the time but doulted the statement at the time, but
now I am inclined to believe it was true.
Florence is a wonderfully attractive city. It has all the comforts of a
town, and all the allurements of eity. It is a Mecca for art students and a perfect paradise for shoppers. The
social life is so charming that about four thousand Anglo-Americans live here permanontly. One hears almost as much English as Italian on the streets, and
there are English tea-rooms galore, each one packed every afternoon. There i
an English newspaper, and a fine Eng an English newspaper, and a fine Eng
lish library-said to be the best in Europe. If one is in Florence for. any length of time, there' is no excuse for
remaining in historic ignorance, for book are within walking distance, so to speak are within walking distance, so to speak
In fact everything in Florence is within walking distance. From almost any
street you can see the limitations of the street you can see the limitations of the
city, and the country and hills beyond. city, and the country and hills beyond
There are many wide, modern streets, but if you stray into the side streets you
get into the middle ages at once. In get into the middle ages at once. In
the old part of the town there are whole sections of fourteenth-century palaces
which look like fortresses-high, stone buildings, with all the windows of the
lower floor heavily barred like jails. I lower floor heavily barred like jails. I
can't help thinking what uncomfortable places they must have been to live in
when the weather was damp and cold.

Yesterday was the national holiday. pictures. When I first wandered through There was the usual review of troops in the Ufizi Gallery, I saw so many famil-
the day-time and fireworks at. night. I wonder if national holidays will ever be of that old lady who was taken to see dissociated from gunpowder ! We went
for a drive in the evening to see the for a drive in the evening to see the
illuminations.: The old Medici palace was all ablaze with candles, which were placed in glass globes and suspended
from fancy, iron hooks. It was most from fancy, iron hooks. It was most
effective, and gave one afine idea of What they could do in medieval times The Palazzo Vecchio (Old Palace) was outlined with rows of gas jets concealed
by shades, so that all the light was by shades, so that all the light was
thrown on the stonework. The effect was marvellous. The tower looked
translucent, and the fluttering of the gas translucent, and the fluttering of the gas
in the breeze gave the whole structure an unsteady appearance as if flames were about to burst through We, sat for a while at one of the open-
air restaurants on the Square in front


The Palazzo Vecchio, Florence, Italy
a very Palazzo and watched the crowddifferent from the fiery, passionate mobs that used to swarm there in the fourthe Palazzo Vecchio that in Savonarola was imprisoned for a month before his execus tion. A stone marks the spot where he from the windows of this old palace, and the Square in front of it has been the Oo course, when you are in Florence you MUST go to the art galleries. A stern sense of duty drives you there,
even if you have no special inclination even if you have no special inclination
to go. There are miles and miles
means. Many of them were women.
The one I am especially The one I am especially fond of at
present is St. Catherine of Alexandria She ' was young and beautiful, and talented and intellectual, but she refused to give up Christianity and marry an elderly pagan emperor, so they clapped to death,--but she still refused to marry Then they bound her between four spiked wheels which turned in different direc-
tions and tore her body tions and tore her body all over.
But even that did not make her change her mind, so, finally, she was scourged and beheaded.
While I am on the subject of saints, must tell you a good story I heard the other day. An old lady who was a
devout Roman Catholic was the house of her niece whas calling at had been christened a few days before. "'And what did you call the baby?"

Hazel." said the mother
"What!" exclaimed the old lady in amazement. "Five hundred saints in old nut !"' opposite sides of the river, ane aries aro by a covered passageway over the Pont Vecchio. An enterprising American tool a stroll through these two galleries wit he emerged, it had registered five miles I should think he would have been good subject for the Misericordia about
that time. Do you know about the Misericordia It is one of the most interesting institu tions in Florence, and has been in existence over six hundred years. It is
Brotherhood of Mercy, and at all of the day or night its members ma be seen on the streets carrying the sick or wounded to the hospitals. Men o all ranks belong, but their identity is
carefully concealed by the masks and gowns they wear when on duty. These gowns are black, and have a large hood,
which entirely covers only round openings for the face, leaving only round openings for the eyes. The
reminded me of horse-blankets when first saw them. One of the old regulanot shoes the society stated that boots difference in the be worn, so that the not, be noticeable. There is a saying in Florence that the social status of a memWhen on duty the members bever boots. more than is absolutely necessary ho money, and take no refreshment exeept a glass of water. The sick and injured are carried in litters. Twelv
men go with each litter and telke in carrying it. When those who are carrying the litter are tired, they tap on the poles and stop, and four others take
their places. heir places.
The first
The first time I encountered this spookyVecchio. The bridge was jammed with people and vehicles, but suddenly there was silence, the crowd parted, the men litter carried by black - gowned, masked men, passed by. But still more spooky was the glimpse I had down a dark sid ed figures, and a white bier covered with fowers. The attendants on this occa sion wore white. As they moved along In the turbulent days of when family feuds were fought in the streets, the Misericordia must have had ite hands full, so to speak.
The origin of the society is so curious that I must tell you about it Awarion back in 1240, a group of porters used to pass their spare time in a cellar gambling and drinking. One of them organized a society for the suppression of
swearing, fining every member who in-

JuL 10, 1913.
dulged in profanity. In an incredibly short time the socioty had ko what to do with it, but fnally decided to buy six litters for con-
seying the sick and injured to hospitals. rom that time to the present day the
ociety has been in active existence. ociety has bee the primitive litter for
They still use
eliee work, but they also have motor mbulances, and as a concession to modernity, the automobile corps \are al-
lowed to leave off their face masks. 1 would like to tell you something about the old palaces here, but there are so many of them and there is so much to tell, that it would take too long.
But there is one-the Palazzo Davanzati that has been restored and is now open
th costs a lire to get in, to visitors. It costs a lire to get in,
but more to get out, as there is a guide on each floor who trails around afte
ou and explains things to you in youlian, which you can't understand, and then fixes his eye on your hand expect-
antly. Whenever they do this it means they are looking for a tip. In the
large salon over the vestibule of this pelace there were four trap-doors in the
loor. These were used in olden times lor purposes of defence, the beseiged
party dropping down heavy stones party dropping
through these apertures, or pouring hot
hater or boiling oil on the intruders in water or boiling oil on the intruders in the vestibule. I saw some of the stones,
and I can assure you there wouldn't be and I can assure you there wouldn't be
much life left in any person who was hit my one. In this salon, which was completely furnished in the fourteenthcentury style, I noticed some very pe-
culiar musical instruments, brass trumpculiar musical instruments, brass trump-
ets that were coiled like a snake: the mouthpiece was the tail of the snake and the sound came out of the head, which was tremendously large, and paint-
ed like a snake's head, and had a long,
pointed, wobbly tongue inside. I asked pointed, wobbly tongue inside. I asked
the guard if he could play it, but he nembly confessed his inability. It
humbly
seemed to me that the sight of a brass seemed to me that the sight of a brass
band of snake trumpets such as these
would be apt to produce a deliriumremens effect on the mind of a man wh was addicted to the whiskey bottle.
Florence is encircled with hills, and on Florence is encircled with hills, and on
the summit of one of them is the old
Etruscan town of Fiesole. There isn't Etruscan town of Fiesole. There isn't
much of it left now but a church, monastery, and a museum, but they have theater, and have been giving Greek plays there this summer. The theater is hewn out of the solid rock, but for
tunately we were provided with cush ions. The play was tremendously inter-
esting, and most impressive. The voices esting, and most impressive. The voices small room. The grouping and costum-
ing was most artistic, and the stageing was most artistic, and the stage
setting and background enchanting. had the misfortune to sit next to an elderly American woman who was boiling
over with enthusiasm, and kept up a over with enthusiasm, and kept up
running commentary on the performance which was simply maddening. These are some of her remarks:
"Oh ! aren't their voices lovely?
Oh! how I wish I knew Italian ! Oh: $\begin{aligned} & \text { I am so glad I came! } \\ & \text { Oh! Isn't the Prince handsome }\end{aligned}$ ? Aren't his legs lovely-so shapely should think he'd be rather chilly wit way the Greeks dressed in those days I wish I didn't have so much on. I'm nearly roasted.
Fortunately Fortunately the people who sat near
were all Italians, so her remarks wer us were all Italians, so her remarks wer
lost on them; but unfortunately we foun out later that she was staying in the same pension as we were. I do hope
she won't attach herself to us. She says I look like a daughter of hers who
died of consumption, and she sits and stares at me in a way that makes $m$ feel like a resuscitated corpse.
I'm looking feverishly forward to your arrival in Europe. What a fine time we Miss Morris deserted us several weeks ago, and went off to England on a grand
visiting tour. Since then, Harmony and
Sinale have been by ourselves. $\begin{gathered}\text { Good-bye. } \\ \text { LAURA. }\end{gathered}$

## NOT HIS FAULT.

Tommy's Aunt-Won't you have an-
ther piece of cake, Tommy? Tommy (on a visit)-No, I thank you
Tommy's Aunt-You seem to be suffering from loss of appetite. Tommy-that ain't loss of appetite
What I'm sufferin' from is politeness.

THE FARMER'S ADVOCATE.

The New Public Health.

QUEStions, ANSWERS, and COM Oonducted by Institute of Public Health, [Questions should be addressed: "Ne" Public Health, care of 'The Farmer' Advocate, London, Ont." Private ques-
tions, accompanied by a stamped, self eddressed envelope, will receive privati answers. Medical treatment for indi-
vidual cases cannot be prescribed.]

Meat or Eggs During Hot Weather.
(a) Some farmers give up eating
meat and use eggs instead during meat and use eggs instead during
hot weather. Is this a safe practice for
hard-working men?
and 73 per cent. of it is water. Millk into a tumbler. Water. Break. an Millk
nour into
umbler of the equal the egg in bulk. Then milk to about as much more of the milk, and you will have in the two tumblers, just
about the same amount of solids. That about the same amount of solids. That
is, the egg is only about twice as "strong" as the milk, provided the milk
is ordinary milk and the egg is an ordiis ordinary milk and the egg is an ordi-
nary egg. The actual fuel value of an nary egg. The actual fuel value of an
egg is only a little more than twice that
of milk, weight for weight, i. e., 700 of milk, weig
against 310 .
Of course, the fat in the egg is yolk, in the butter, it is butter-fat: the proteid in the egg is "white of egg," in the
milk, it is casein. The carbohydrate in mink, it is casein. The carbohydrate in
the egg ittle as to so scarcely worth mentioning; in the milk, it is chiefly lactose, or sugar of milk.
The chief point in diet is to take food
that agrees with you, and take enough. The exact constituents of the food doesn'


The Misericordia, Florence
(b) My baby is fifteen months old, and with some bread and butter, for one of her meals during the day. I have been
told that an egg is too strong for her at this age, and that it will "wear out
her stomach." Is this true? At what age is it safe to give a child a whole Ans.-(a) I hardly know what you mean by "safe." If the eggs agree with
them, and they take the equivalent in eggs of the meat they would otherwise
have taken, I cannot imagine what harm have taken, I cannot imagine what harm
it would do. Of course, some people have a very
exaggerated idea of eggs as food, 'believing them to be wonderfully "hearty." seem to matter much, as a $r$
pther two rules are observed. (b) I think that the answer to the
previous question, (a), will very nearly answer this one also. Babies thrive on milk, why not on eggs ? An egg, with
one-lourth its bulk of water added, would
be no stronger in solids be no stronger in solids than whole milk
is. Of course, if the baby's digestion is. of course, if the baby's digestion or sleep, or bowel movements are upset,
or if it shows any untoward symptome
of any kind, it would be best to vary of any kind, it would be best to vary
the diet, but as long as it is getting well, its stomach will not wear out on $\square \quad$ H. W. HHLL
siould milk be scalded.


The Ponte Vecchio, Florence.
lest they should overfeed. In actua
weight, a pound of meat is equal to
dozen ordinary eggs, while the fuel value dozen ordinary eggs, while the fuel value
of the meat is 1,100 calories per lb.; that of the eggs only 700 calories per that one If a man holds the entirely
dazen. int quite prevalent belief, that one alse, but quite prevalent belief, that one egg is equal to a pound of beefsteak, and
restricts his diet to one egg per day or restricts his sou will see that the man really starves himself, for in fuel value
one egg is only about equal to one Remember, an egg does not weigh much,
Remember, an egg does not weigh much, cows, which are healthy in other ways
using it as food? If so, is it sufficient
to bring it just to should it be actually boilled point, or (b) sumptive what should the diet of a con(c) Will you kindly state the precautions necessary to be taken by the nurse ease may not be transmitted to the disMiddlesex Co.. Ont. $\quad$ M. L. cows. which are healthy in other ways

Should all milk be scalded befo
people, thice is carefully milked by cleailly cleopn, free from disease: handied in quickly used, does not require boiling or pasteurizing to insure safety. "But there's many a slip," and if you cannot keep all these points ("cow, cleanliness,
cold, and quickness,") (under your eye, all the time, cooking the mill is is satest. As things, are, the only mimmediately available method of excluding cattle tuberculosis from the human race is to It (or pasteurize) the milk.
It is suflicient to bring the milk to a
boil, but this should be done in a covered receptacle, otherwise a scum a is apt o form; and the germs sometimes surBoiled or pasteu Boiled or pasteurized milk should be or germs admitted from the air, ote. will grow in it even better than when it
(b) The diet of a consumptive consist of the most nutritious thinge that he can digest, given in as great . quantity as he can stand, varied a much as possible, to avold makling the above all, with a continuous outdoor life, and with rest. This sound simple,
but every consumptive requires super but every consumptive requires super
vision by an expert physician to insur vision by an expert physician to, insure
the maximum results; and as even the maximum results may not be enough to save him, you want to be sure that you re giving him every chance Meat, chicken, fish, eggs, milk, bread,
whatever he will have, if he only talkee enough, and "gets away with it." (c) The nurse should, for her own
protection, avoid the mouth spray and hands of the patient, washing her own hands or his mouth diseharges, or thing hands morth discharges or his hands have
touched. The bowel and bladder dis charges are usually dangerous also, als he should be careful in handling these
and wash her hands faithfully after each The keeping of hands clean is not dimult. The troubie is to "dodge" the or coughing or sneezing. The pationt should be taught, if possible, to -hold or sneezing spelis, and never to tallyint another person's face. Is the pationt sutdoors, as he should be, danger from Thouth spray is much lessened.
The following rules are uedul
2. What is Tuberculosis?

The growth, in any region of the body nass (or masses of diseased tissues; each and produced by an irritating surrounded tubercle bacilli. The bacilli growh the the particular region concerned (a) from other parts previously alfected; (b) from the outside, through skin wounde (sel
dom); (e) through the lunge (sometimes) dom); (c) through the lunge (sometimes);
(d) by absorption from portions of the alimentary tract (most often).
II. What are the Effects of Tuberculosie? Very different, according to the region which it is located. If confined to seldom painful, and without much obvi ous infury; if to the hip joint, it prouces swelling, lameness, and pain; It to respond to the organ affected. A great danger to the pationt with tuberculothe of glands, joints, bones, ete., is the likelihood of spread to other organs, and
especially to the lungs. When it attacks the lungs it interferes with a most
vital function (breathing); much fever, coughing, and expectoration result, and the tuberele bacilli are thrown out in the
expectoration, and are dangerous to others. Lung tuberculosis is generally, slow.
The patient suffers for months, or years. The patient suffers for months, or years. of He; their helplessness means Anancial of hifes their helplessness means inancial
burden to others, upsets their life plans, results often in poverty, always in dis(except where discharging wounds exist). lung tuberculosis is highly infectious. Lung tuberculosis is not a private affiction, but a public calamity. If you jointe, glands, etc., have an examination made before it spreads to the lungs; and never neglect a "cold." Call on your
physician,or the Provincial or Local Health Department, for Department, for advice. It is not only
your right to do this; you owe it as a
duty to the patient, to yoursell, and to III. If well Now, How Remain Well ? II. If Well Now, How
Tuberculosis may come
(1) From the hands of careless tuber-
(2) From handling anything careless tuberculous patients handle ; (8) From using food, milk or drink, handled by tuberculous patients ; (4) From files carrying discharges
(sputum. feces, urine, pus) of tubercu(sputum, feces, urine, pus) of tubercu-
lous patients to lood ; (5) From handling the undisinfected
clothing, eating utensils, clothing, eating utensils, etc., of tuberculous patients :
(6) From houses and rooms recently occupied by careless tuberculous patients;
(7) From the indoor air, near careless tuberculous patients ; air, near careless (8)
cown.
cown.
If you do not get discharges (sputum, feces, urine, pus) from tuberculous patients, or milk from tuberculous cowe,
into your mouth (or nose) into your mouth (or nose), you will never
contract tuberculosis." Be governed by the following Tuberculosis is taken in wholly" through
the mouth (or nose) the mouth (or nose), sometimes by in
haling infected air, generally from fected bands, milk, sood, or drink. Therefore, watch everything that goes tnto the mouth. Do not eat or drink anything which has not been cooked un-
Tose you know its source and all who toes you know it
Especially boil or pasteurize all milk that you do not know comes from
tuberculin-tested cows, and has been handled exclusively by healthy persons. Refuse to have a tuberculous domestic cook or waiter, or a tuberculous nurse
for your children. or your children.
Sacrifice anythin
good food, and proper to gething. fresh air,
Live, work, Live. work, and sleep out of doors, just as much as possible-the apparently
imposible often becomes possible if you imposesble often becomes possible if you
try hard enough." "Out of doors" often cry hard enough. "Out of doors" often better for well persons.
IV. If you are well now. but have See that no one, friend or stranger, See that no one, friend or stranger,
sick or well, talks or laughs into your sick or well, talks or laughs into your
facp, for this often sprays their saliva
into your mouth or nose. Sit side by into your mouth or nose. Sit side by
side, not opposite, in conversation with tuberculous patients, for the same reason as just given.
Eat only cooked foods, unless certain Keep flies away from food Keep flies away from food.
Do not handle your intended for anyour own food, or food hands that have been thoroughly washed since touching anything connected with tuberculous patients. Do not allow
tuberculous patients to touch your food, or eating or drinking utensils, at all. Do not put your fingers into your own mouth or the mouths of your children aithout cl
afterward.
The tube
The tubbrculous member of the family of household. must systematically and age or carelessness, he will not, youth, must bear the burden yourself arther association with him.
V. How You Should Act if Tuberculous. The danger from you to others consiste (sputum, in getting your discharges (sputum, reces, urine, or pus from
wounds) into their mouths (or nose any route-chiefly through the hands, any route-chiefly through Touch nothing of your own, and espe
cially of others, except with hands just
washed. This applies to shaking hands. washed. This applies to shaking hands Talk and laigh as you will, but never
towards anyone else, lest you spray your towards anyone else, lest you spray your Do not kiss any person, except after caraful cleansing of your lips.
Never cough or spit except into some
thing held close to the mot an be boiled or to the mouth, and that After each spitting, wash the lips and hands.
Day clothing, bed clothing, all dressDay clothing, bed clothing, all dress-
ings, and eating utensils-everything you touch-must be disinfected with boiling water or disinfectants after use by you. Paper napkins, or worthless rags, should
be burned. Never fee
never serve meal from your plate, and
Keep flies away from your discharges
sputum, feces, urine, pus. Stay out of doors all day-sleep out
of doors all night, or with your windows
wide open. See visitors. only out of doors. H. W. HILL.


Poison Ivy.
$\qquad$ good deal of discussion about poison
ivy, and a positive cure and relief fron loy, and a positive cure and relief from
the poisoning is often a valuable piece the poisoning
of knowledge.
Many remedies are widely subscribed of use, but I have never known plain, hot water to fail, and it has invariably
given instant comfort. given instant comfort.
The outbreak usuall wrists and hands, and it is necessary to put the affected parts into hot water. Then make it hotter, and keep on in-
creasing the heat until a limit of endurance is reached. Let the parts foak for ten minutes altogether, and relief
will then be obtained. In the course of will then be obtained. In the course of
two or four hours, or a day, the trouble two or four hours, or a day, the trouble
may recur, when the same treatment will again be successful. Mild attacks may yield to one heating, while severe at-
tecks may take a dozen, but the relief acks may take a dozen, but the relief
iven by this method is positive, and is very grateful to the sufferer.
W. E. SAUNDERS.

## Hope's Quiet Hour.

A Chain.
The chain of, second causes
However long it be, link
'Tis held, 0 God, by Thee
To-day, instead of talking to you mysell, I am going to give you some pasblossoms." whitiful book called "Rainblossoms," which was written especially
for sick and amficted people. or sick and afficted people. A copy
was lent to me, and I found it so useful that I sent to England for a copy for myself. The author's name is Edith
Harvey-Brooks. Harvey-Brooks.
"Perhaps one of the greatest trials of
illness is the feeling that in illness is the foeling that it is such ter-
rible waste of time! Inness, like death is absolutely arbitrary. It does not only select the idle and the pleasure-
seeking. Its hand is laid upon the earnseeking. Its hand is laid upon the earn-
est student-the bread-winner-the mother upon whom the little ones are hourly dependent-the daughter whose arduous
toil alone stands between her prent toil alone stands between her parents and the workhouse.
"When this is so,
time is slipping past, loaving the necessary duties neglected, the opportunities or advancement lost, the occupation per-
haps forteited, is indeed an almost dening one, and may well suffice to addening one, and may well suffice to in-
crease the suffering a thousandfold, and ven to heighten and accelerate the prog ess of the disease itself. It is a terrible position, but God's power and goodness are quite equal to coping with and
conquering it. Your diffculties are not unknown to Him. Your burdens and
and responsibilities were His appointment. He knows that you can no longer carry
them, and He has pledged Himself to provide,
Do not let your weakness of body dim
your faith. Surely this is not the first time you have had to test the the first power of your Heavenly Father? Things are not as bad as they seem........
It is almost always when things blocked up and impossible that a happening comes ! God is turning the world round all the time! "You who sleeip so badly know how
desperately dark it seems when the night
is absolutely moonless and starless. yet is absolutely moonless and starless; yet
you are not afraid then, you feel posiyou are not afraid then, you feel posi-
tively assured that God is turning the world round, and that before long the little portion of it upon which you live, will be brought under the power of the warming, cheering rays of the sun. Is
it so very hard to believe the same with regard to your life? God holds it-as He does the world-in the hollow of His hand. He does not forget that you are lying in darkness, much more trying to
bear than the dreariest night. He is only waiting until the right moment has arrived to cast His bright beams upon you, and to arise as the Sun of righte-
ousness with healing in His wings. It may be. His will that in due time you should be raised up and restored to your have an opportunity Now which perhau will never be yours again. which perhaps give praise to God when all is going well (though many, alas ! omit to do so); but in sorrow it is a very different
thing, and in no sort of sorrow is it so difficult as in sickness

From any other ill can man escape But sickness holds the sick man in a
chain.'.
and the last link is chain of many links a tyrant last link is not in the hand of

affict 'willingly'; by Him Who numbers the very hairs of your head; by Him Who
is the one omnipotent Physician; by Him is the Himself bore our griefs and carried our sorrows; Who Himself took our in-
firmities and 'bare our sickniesses !' frmities and 'bare our sicknesses !'
'Perhaps you think it is mockery "Perhaps you think it is mockery to
talk to one who is chained, of 'special opportunity'; what can be done by fettered prisoners ?
"Let mee quote to you some sweet
words written for people exactly in your own case, for they
ferers in a hospital.

II speak to those who suffer It, impatient, thou let slip thy cross, Thou wilt not find it in this wor
Nor in anotn,
aner : here and here alone Is given thee to suffer for God's sake. In other worlds we shall more perfectly
Serve Him and love Him, praise Him, Serve and work for Him,
Grow nearer and nearer Him with all
delight ;
But then we shall not any more be called To suffer, which is our appointment here.
Canst thou not suffer then one hour-or If He two thould
Saying, 'It is finished ! that hard cross
From which thou prayest for deliver-
Thinkest thou not some passion of regret
Would overcome thee
Let me go back and suffier yet awhile
More patiently: I have not yet praised
God.'
And He might answer to thee, 'Never All pain is done with. .
That God may now be glorified in us;
And while we suffer, let us set our souls To suffer perfectly. let us set our souls To suffer perfectly: since this alone-
The suffering which is this world's special grace
here be perfected and left behind.
"Do not these words make you" desire
to exchange dull acquiescence into willing and joyful acceptance? Nay, more-into and joyful acceptance ? Nay, more-into
a rich gift, which God will tenderly re-
ceive as an offering which indeed does ceive as an offering which indeed does
not 'cost you nothing,' but which innot 'cost you nothing, but which in-
cludes your most valued and your best
It It may never be in your hand to present
again. You will, perchance, recover from this illness and live for years, and the next time the messenger is sent, he may
conduct you to the presence of the King with very short parley. At the King whatever the future may bring, a great
chance is with you Now: 'Here, and here alone, is , given thee
To suffer for God's sake.' "You have often longed to do things on of, have wou not? from time to time, has
one of been stirred by the recital of what others have achieved, and we have thirst-
ed to have something also to ed to have something also to offer. In
the solemn hours of night it has, from the solemn hours of night it has, from
time to time, been borne in upon us very
convincingly that life is passing with apconvincingly that life is passing with ap-
palling swiftness, and perhaps we start palling swiftness, and perhaps we start
up with a wild regret in our minds; be-
cause there is But God does not measure life with our poor, human scales. By Him, truly ac-
tions are weighed, but He also looketh upon the heart. If those also serve who
only 'stand and wait,' what will not His
tender tove impute these who not tender love impute to tho
only wait, but SUFFER :
When the Great Day comes, when many that are last shall be first, perhaps the
humblest of earth's forgotten ones may humblest of earth's forgotten ones moy
find even more astonishment than joy, in
the acknowledgment of service which God the acknowledgment of service which Go
owned and prized, though they then
selves never thought of it as such ! - God knows that in your best moments
you, too, desire, above all else, to fight
IIis battle in the world, and He is giving you a glorious opportunity at this
present time. Upon your couch of pain
there is a battle to be won, a kingdom to be obbained which will make you
greater in His. sight than 'he that taketh greater in His sight than 'he that taketh
a city,' and He will accept and tenderly value your effort as much as if it were
yenrs of labor in an apparently glorious
campaign, or the heaped-up riches which campaign, or the heaped-up riches which
you desire to possess that you may pour
th.m at His feet. . . . Man may
never know the contest in which you are
engaged-may never give you credit for engaged-may never give you credit for
the effort you are putting upon your
poor, exhausted poor, exhausted frame, when you your
yourself to keep back the impatient word, the weary murmur; but God does so truly appreciate the smallest attemp
to 'glorify Him in the fires.' Your life may be 'hid' with Christ in God, but it may the hid
watches."

I pass on this inspiring message to my
"shut-in". friends-such as dear "Tank shire Lass"-hoping that it may cheer and encourage them in their hard fight. It does us all good to be reminded of
God's personal interest in the warfare we are waging. A great and glorious life is one that gives great joy to Him-and we all have the chance to live gloriously

## TheBeaverCircle

OUR SENIOR BEAVERS [For all pupils from Senior Third to
Continuation Classes, inclusive.]

The Wild Flowers I Love Best.
Nine Beavers won prizes in the competition on the above subject.
They are: Winifred Colwell, Brookville Stn., St. John Co., N. B. ; William
Avery, Stayner, Ont. Avery, Stayner. Ont. ; Zilpha Adams,
Brantford, Ont.: Maggie Bell, Canfield,
Ont Ont. ; Lindsay McLennan, Guelph, Ont. Lucile Glass. Thorndale, Ont.; Amy
Seburn, Longwood, Ont. Seburn, Longwood, Ont.; Douglas Clog
horn, Guelph, Ont.; and Amy Speirs New Flos, Ont.
Those whose drawings were best were
Lucile Glass, Winifred Lucile Glass, Winifred Colwell, Amy
Seburn, William Avery and Mall Any Seburn, William Avery and Maggie -Bell.
Lucile Glass's were paintings, beautifufly done in water color, but the colors were not those that would reproduce well fo Honor Roll :-Richard Courtis, Effle Stoltz, Barbara Martin, Rita, Cople, May Lemendin. Sarah Bruce, Florence
Branton. orange lily, twin flower. When spring deepens into summer
berries ripen, small birds are learning berries ripen, small birds are learning
to fly, and school lessons have seemingly become things of the past, then come the flowers that I lave best; and if you follow me some summer afternoon I will
lead you to a moist, damp part of the
nearby But as it may be that we can never go through may be that we can never realitr, let us go through them now in
imagination. Imagine us now resting in a neglected
madding crowd

## madding crowd Curiously we

which we are sittingine the soil on sandy loam, possibly that havinge bean thy cause of the meadow's neglect. But it
reminds us that if' our "hotanies'" be true we possibly might find the Wild Orange Lily here. There it is, not far
away, with its large open bell of a rich away, with its large open bell of a rich
reddish-orange spotted
with purplish-brown spots on the inner side and a pale orange on the outer raising
itself gracefully above the ripening grass itself gracefully above the ripening grass
Jesus says: "Consider the lilies o the field how they grow; they toil not,
neither do they spin, and yet I say unto you that Solomon in all his glory
was not arraved like one of these o, was not arraved like one of these."
This quotation runs through our heads as we stoop to examine the flower which almost looks out of place on account of
its loveliness. It contains six stamens, its loveliness. It contains six stamens,
the filaments of which are rather long
the anthers are covered with pollen of a reddish-brown color, and the stigma
is three clett. The leaves are narrow
and pointed and whorled at intervals and pointed and whorled at intervals
on the stem. The plant itself is from
one and one-half to two feet high. The plants have. in many cases, been
cultivated, and have been so greatly in creased in size and deepenene in in color.
After gathering as many as we ca conveniently hold we pass on, as we
wish to reach the appointed place be
fore nightall beauties which surround us on every
side, we soon arrive at our destination, the habitat of our little twin flower.
Bryant says :"Nestled at its root is beauty "Nestled at its root is beauty
Such as blooms not in the glare of the broad sun. That delicate forest With flower bented breath and look so like a With scented breath and look so like a
smile Seems, as it issues from the shapeless An emanation from the indwelling life.


Twin Flower.
(Drawn by Winifred Colwell.)


Wild Phlox.



Wild Orange Lily. Wild Orange Lily.
growing in their haunts than in the most beautiful vase procurable. Their
beauty seems spoiled when beauty seems spoiled when gathered into
a bunch. The twin fower, as 1 remomber it
consisted of a pair of blossoms on a
fragile naked stem. These blossoms fragile naked stem. These blossoms
were a whitish-pink, striped with deeper
somewhat bell-shaped. The round leave are evergreen, and opposite each other on the stem. The plant is a vine from six to twenty inches long, and belongs
to the honeysuckle family. It was givan to the honeysuckle family. It was given
its botanical name by Linnaeus, the great botanist, often called the Father of Botany, who chose it as his own
flower, called it the Linnaea borealis and adopted it for the crest of his coat of arms. When Linneeus died a cenotaph was erected to his memory, and, at its Linneea borealis The day is going fast as we retrace our steps towards the village whose
lights increase every minute, while be hind us an owl hoots farewell.

Brookvills Stn., St. John (Age yoars.)
JACK-IN-THE-PULPIT, MAY-FOWER. Dear Puck and Beavers,-The wild Aow-
ers I like beat are Jeck-inthe Pulnitw or Indiail turnip, and the May-flowerit or Indial thrnip, and the May-flower: and All though the soason from early
ing his Jack standa in his pulppte preach-
sot wonder. Strong and sturdy he stands, and what doge ho
stand on? Take him up root and all.
and examine him. Jack's heed to aland on ? Trakine him; Jim upk root and all,
and end to some:
thing like a cat-tail rush. If you go thing like a cat-tail rush. If you go
back to the plece the back to the plece ho yrew in a form
weeks and ses if there are any more
flowers, probably not, but whare he gowers, probably not, but where he
berries which will be groupe of wright-red
balled the "childrem berries which are called the "chilidren of
the Jacks," which, ware loft behhind.
after the pulpit dried is like a turnip, but so punggent in root
thit one who bas over bitcto it will that one who mas ever bition it "ItI
never forget, and some people call it "memory root."
The May-Aower comes out in the
month of May, and that is how it got month of May, and that is how it got
its name. It is very pretty, the colors its name. It is very prettys the colors laow ise, small, and growe about mix
linches high. The leaves are elmout inches high, The leaves are almont
round with notches around the edge.
They only grow in shaded places, They. They only grow in shaded places. They-
make nice bouquets, and are beautifui for decorating. Their roots are spread
about the ground, and they spread all about in the bush and fence corners.
They are also not harmful, because they will not grow out where the crops are.
Most people are like myself; they love such pretty flowers. Well, I think I
have told all. WILLIAM AVERY. stayner, Ont
Do you mean, by "May-fower" the
beautiful trailing arbutus, with its tiny, fragrant, pinkish or purplish-tinted howers with a bit of yellow at tho
heart ? ing, but was once lucky enough to haw-.
a tiny box of them sent to me, They are not very common now, I am sorry
to say. Perhaps, however, you do not mean
trailing arbutue (often called May-flower) trailing arbutus (often called May-fiower) but some other that I do not know by
that name. I hhall be gled \#1 you will that name. I shall be gled 4 you WII
send me one in a letter sometime. It may be that those you mean are "Spings
Beauties," which also are pinkish with Beauties," which also are pinkish wing
a dot of yellow at the heart, and are a dot of yellow at the heart, and are
also sometimes called "May-fowers."-p.

VIOLETS, ADDER'S TONGUE, SPRING BEAUTIES, BLOOD ROOT.
Dear Puck and Beavers,-I noticed in your valuable paper the new competition thought r would writ Well, all the flowers are favorites with me, but the dear little "violets" "yellow adder's tongue" and "May-flowers," or as some call them "spring beauties" are
the ones I like the best. The tragrance of the violet is beautiful at a certain come, but later they turn lightar in itter that. The May-fowers die earlier than the
violets, always leaving one kind when nother is withered or dead. If there is a place in the woods that is quite covered with them, there cannot be a
prettier place unless it is a bed of "viotelets or flace unless." it is a bed ot The trilliums are very nice when they are beginning to turn pink and the fing green leaves begin to turn kind of brown, their beauty is fading. I once
found a lily with four white leaves and
lour green ones, and I pressed it and sept it for a long time, but now I can-
not find it or I would send it to you The adder's tongue generally grows in damp place. and in one mass to very interesting to study, as the roots of all the flowers are different.
The blood-root has rather peculiar odd shape, They are of such a pretty ye odd shape, and the leaves seem of such
protty color of green, yet odd, too The roots are of good use to make nedicines of different. kinds. The little "Johnny-jump-ups" are cute
Aowers, although they are so very tiny Thers resemble the violets so vory tiny.
much they
 mom all on one stem and flowers, too making them more difficult their faces neari's all up.
This time of the year the woods are
green with ferns and different kinds of weeds, bushes and all sorts of small mot of our own. but of "Nature's" making, and it is all inviting to th "camera." It you go in the woods, the welcome of the bird's merry tu
the smiling facas of the flowers.
In a wood I was recently at, there cantre of it, and on either side of it,
was a low, moist place, which was litarally cow, moist place,
darkest blue.
Well, I will close now, wishing the
Beaver Circle every success, and also Beaver Circle every success, and also
the Beavers. with this competition Brantford, Ont. ZILPHA ADAMS.
Have you ever found wild, blue violets With much fragrance, Zilpha? I heve
never found any of the really wild ones never found any of the really wild ones
that had, although English violets
eacaped from ascaped from garden have a delightful
fragrance. The wild, white violet, however, whose petalas are bluish on the back, has a very delicate sweetness of
odor. The Johnny-iump-up, which you men-
tion, can hardly be called a wild flower. When you find it growing wild you may
be sure it has escaped from some old be sur
garden.

VIOLETS, PhLOX, iris It seems rather a hard thing to decide
which wild flowers we love best," have chosen three, "the large, white
violets," "wwild phlox," and "blue flagg" iris.-Ed.). The lange, white violets are my
favoritites, and are not very common atch; it is in the centre of only one rather a low place. The plants grow bout a foot high, and the flowers do not have separate stems. Thiy resemble
the pansies in many ways. $\quad$ The flowers are shaded like them, having yellow contres, and are slightly veined with
purple, near the centre. purple near the centre. The backs of
the petals are light purple, and turn darker as the flowers grow older. The loaves are somewhat heart shaped, only
a little long. They bloom from about a little long. They bloom from about
the twenty-fourth of May till the first

The wild phlox can be easily recog-
ized by its likeness to the tame phloxes. The flowers are light blue and at the end, and there are five on one
blossom. The leaves grow opposite on the
stems, and are lance shaped and slightly hairy. They grow in open, sunny or near old fallen logs. They also
blossom from the middle of May unti! June, and

The large, blue flags look very pretty
along about the middle of June when all other flowers have died, and there
are but few colors to be seen outside They grow in wet, moist places, in
marshes or bordering ponds or swam
land. They are a deep blueyellow land. They are a deep blue-yellow a
the base, and are heavily veined wit purple. The flowers grow on long,
tapering stems. two to three feet high
The leaves are lance shaped and stand Longwood, Ont. AMY A SEBURN.

THE FARMER'S ADVOCATE

SELECTIONS FROM HONOR ROL LETTERS love best is to go into the cool woods "The pick the violets."-Richard Courtis berry, strawberry and the peach, belong o the rose family." -Richard Courtis. "Here I sit in my father's bush with
wild flowers all around me, but I do Wid Aowers all around me, but I do
not think there is any that I like more
than the dear little blue violet."-Rita Coale.
"If a
go to $t$
did
go to the of us country people were to go to the big city of London, Eng., and
did not see any wild flowers from yea to year, I think we would be very glad
to get, back to the dear old country
aigain..

## Junior Beavers' Letter Box

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## Doar Puck

first letter to the Beaver Circle. My father has taken "The Farmer's Advo cate" for as long as I can remember. I
have one sister aged six. Blanche. For a pet I have a yellow
kitten named foldio. I have nime and a half to foldie. I have a mile ohol. I don't
miss many davs unless I miss many days unless I am sick or the
weather is stormy. We work 180 acres We built a new barn llast summer, and
expect to build expect to build a silo this summer. My
teacher's name is Mr. Morrow. As my letter is getting long I will close, hop
ing this will escape the w.p. b. FLORENCE ARTHUR.
Branchton, Ont., R. Age 10, Jr. IV.)

Dear Puck and Beavers,-This is my
first time to write to your Circle. first time to write to your Circle. My
brother has taken "'The Farmer's Advo cate" for one year, and Fikmer's it fine.
read the Beavers' Circle nearly every
Thursday when Thursday when I come nearly every
school. I go to school nearly from school. I go to school nearly every
day. I aun in the third book, and like
it fine. My teacher's nome Crossly, and I like her too. is Miss one sister and two brothers. My sister's
name is Hazel, and my brothers' names name is Hazel, and my brothers' names
are Fred and Jack. For pets I have
two calves two calves, a white-and-black, and a
red-and-gray one. I have a white cat too. I will clese now, hoping this wil
escape the large w.-p. b. Kerwood, Ont. $\begin{gathered}\text { LAURA SULLIVAN. } \\ \text { (Class III) }\end{gathered}$ P. S. - My sister Hazel says she would
like some of the Beavers to correspond
with with her. She is eleven years old, and
her address is the same as mine Dear Puck and Beavers,-This is my
first letter to your Beaver Circle. My
father has taken "The Farmer's father has taken "The Farmer's Advo-
cate" for as long as I can remember,
and likes it veng and and likes it very much. I enjoy reand
ing the letters in the Beaver Circle.
have one mile teacher's name ise Mo to school. My Marvey. Mhere
are twenty-nine going to our school.
One day last One day last summer all the school
the school went to of the woods, and we
got back went got back about four or half past four.
1 have a little kitten and a dog named acre farm three miles west of Bradtord
I have two sisters and for brother Bradford myself. Ai.EXia williams. Dear 1'uck and Beavers,- - wrote to
your Circle before, and, as I saw my
letter in print, it gave me the courage to
try again. We have taken "The Farmtry again. We have taken "The Farm-
er's Advocate" for a number of years,
and like it fine. I like to read the

Beaver's letters, and the story called
"Rebecca of Suninbrook Farmr." I am
another bookwworm. Some of the books another bookworm. Some of the books
I have read are "Black Beauty,", "All
Ahoard," "Cleared Aboard," "Cuaared at Last," and I'go Curiosity. 1 liko my teacher fine. Her name is Mis Walker. I would like some no the me. I wish the Beaver Circle overy success. I I remain, your frieod, every
Renton, (Book Jr. MABEL III, Age 10.)

## Mending Basket

## In Behalf of the Teacher.

## Editor The Mending Basket':

 After reading with interest Greybird'sletter re the school teacher, I felt I must take up the cudgels on behalf of those
of that profession. "Iooked down thom when the teacher
of learning" on the farmer folk, is a of learning" on the farmer folk, is a
thing of the past.
I know there teacher was placed a almost on a level
with the preacher, as these two were the only ones in the community who had a
higher education. higher education. The teacher's society
was greatly desired. He was constantly invited to the homes, and was given the most honored positions in public. His advice was asked by all, and he was
considered, both by himself and by the whole section, a very superior being.
Now, circumste Now, circumstances huverior beingng.
farmers in this district are ang. Parmers in this district are almost all
very prosperous, and can afford to edd cate thoir sons and and daughters. A A great
many have attended high school soan lany have attended high school, some
ladies' college, others business college,
or agricultural college or agricultural college, so that college, do
not feel one whit inferior to the they in education. Indeed, I am sorry to pity her because she has to earn her
own living. own living.
I feel a
g
the strange teacher, going into a long settled district, near going into a long-
think, unless arge city. I think, unless she has a very magnetic
personality, is remarkably gifted, or is
connected with some families, she is very apt to be ignored instead of placed, on a ' pedestal. Per-
haps the farmers' sons show haps the farmers' sons show 'more kind-
ness to these lonely ones than their mothers and sisters do. In many cases the teacher is considered merely a human
machine, hired by the ratepayers to teach their children. If the said chil-
dren get along quickly with their and do not get a whipping, she is a good teacher, but if there is an occasion
when a child belonging to one of these leading families has to be punished, then haor teacher's time of reckoning
has come. Of course, the children hear ell the criticism and abuse. This has
been repeated time and again in different sehool repeated time and again in different
I consider this one of the greatest mistakes parents' can make.
There should be the utmost sympathy
and co - operation and co - operation between teacher and
parents. There is scarcely parents. There is scarcely ever any
serious trouble in school with pupils who
are taught at home teacher and at home to respect the the
tebey her rules. Each one of us mothers know how
much patience and wisdom it needs to Buide a-right two or three little ones.
When we think of a teacher with forty or fifty restless little tots (with as many
different dispositions) to discipline and teach, I'm sure we ought to do do all ind
our power to sttengthen her authority
and and the children's love for her.
Last fall the Women's did a very praiseworthy act. Institute here
sented each school section with a pre-
number plotser of bulbs to plant in their school
This spring the plots were jud
and the Institut. and the Institute gave a prize for the
best production.
I beliene ested, and the children were much inter-
tion, tonk upers, without excep-
showing the wor work gladly, thus As to the advisability of the teacher
preparing papers for the Tnstitlte meet-
ings, I would judee et wwold depend very
much upon what the subiect was to be.
For instance is spent ince child- $n$ tracher whose time and development
to prepare a pal.ur on liread-makine an
read it

FOUNDED 1866 wives experienced in cooking for years,
would seem almost absurd.
foel rather presumptuous in would Cel rather presumptuous in doing so. Elong the line of her present chese were she would gladly do her best.
I would not say, with Gest.
noybird, that it showed ignorance on the part of that
teacher because she felt unfit to teacher because she felt unfit to give a
paper on cooking. We would not paper a minister. to ke would not ex- much about
agriculture, nor would he be ake agriculture, nor would hew be ach about
prepare a paper on farming at prepare a paper on farming at an Insti-
tute meeting. Yet, for all that, he mat tute meeting. Yet, for all that, he may
be a most successful pastor. Nor is a
former suppose to farmer supposed to understand mor is a
Ho would not attempt to read a paper before a medical assoclation. Yet he, man, along his own line of business. In this great world of ours each one
has his or her special work to has his or her special work to do, and
if each does this work faithfully telligently, the grand result of the united efiorts will be all that is to be desired. It is a lamentable. fact that the house-
wife has not always done her Wile has not always done hework intelligently, and has not always trained
her daughters wisely. I believe the giddy teacher Greybird speaks of, also
the foolishly-vain one, and the girl ignorant oof the beauties of nature, are all
rant the result of unwise parents, and perhaps are not so much to blame, ber-
Oh, how thankful we should be for those blessed mothers who do guide their thize with them, and wain and kee sympaconfidences, who love all that is beautiful and pure in nature and literature, trom instil this love into their little ones
beginning. I thoroughly agree with Greybird con-
cerning the "dignity of labor." All cerning the "dignity of labor." All
honest work is equally honorable, provided it be done well. honorable, proher picture of the farm - reared teacher coming home full of interest and pleasure in all the simple joys of country
life. All teachers have of privilege of being brought up hot had the so the animals and out-door life does not appeal to them in the same way. Of
course, they miss a great deal of the joy course, they
of living. I have known, personally, dozens of
teachers, sensible, and this I observe: That the without exception, become first-class housekeepers when they gave up their The systematic methods used in tea ing, and the training in patience, toing powers, and a coal cook-buick-observto make of her a success in woman's most important work - that of homemaker and nation-builder. KIT.
York Co., Ont.

## Fashion Dept.



Design bn May Manta 34 to 40 bust.


Design by May Mantono.
${ }^{7}{ }^{7}{ }^{655}$ Fanicy Bodica


7622 Two-Piece Skirt. with Drapery, 22 to 30 waist.
How to order patterns. When ordering, please use this form Send the
Name......... Post Office
Post Office
Number of patter
 Measurement-Waist, ........ Bust, .... Address : Pattern Dept., '"The Farmer's Ontario.

## The Ingle Nook.



Selecting a Vocation for Life.
"I am going to make a preacher of
this boy," said a father, laying his hand on the head of one son, "and a doctor
of this one," indicating in the same way the other.
Now, surely the assumptions of this man were rather preposterous. Utterly
disregarding the likes or aptitudes of his disregarding the likes or aptitudes or his
children, he would make a preacher of the one and a doctor of the other.
The writer of this has always held, The writer of this has always held,
notwithstanding the unending talk about notwithstanding the
"keeping the boys on the farm,", that to
exercise undue pressure or argument in exercise undue pressure or argument in
the matter is a mistake; even that to the matter is a mistare, schools so one-
make education in rural
sided as to exercise undue influence in sided as to exercise undue influence in
the matter is a mistake. the matter is a mistake.
of course. it has been argued that the
system if rural-school education so tar system if rural-school education so far
has been such as to educate children
asay froum rather than toward the farm.

Perhaps, to a certain degree, and cer-
tainly in the hands of certain short sighted teachers, this has been true, yet
it is hard to see wherein the curriculum for the public school could be greatly
for the curin the changed with the solitary exception of the introduction of school-gardening and nature study,
a few places.
few places.
The fact remains that country children,
The fact remains that country children, certain likes and dislikes, some of them with great talent or genius along cor-
tain well-defined lines:
Here is a boy who may be developed into a good doon
tor, but is likely to do nothing olse happily or satisfactorily. do nothing else
arore is
another of whom can be made a first another of whom can be made a Airst-
class farmer. . . This one has a perfect class farmer. . . This one has a perfect
genius for argument, and for working
from from premise to conclusion; he would
make a good lawyer. . . Yet another is never happy save when working with
tools,-and so the story goes, ending up with a fow nondescripts who appear to have no very especial aptitude for any-
thing, who are never likely to shine very brightly in the world, but who have it all the same.
Now, surely the sane method in dealing
with the primary education of such an agglomeration must be: (1) To give all a good working grasp of the "three R's."
(2) To touch upon enough subjects to give a perspective, and to make all so attractive that the boy with especial
aptitude will be ready to recognize at once that especial work which he likes
best, and for which he will be best fitted. Kep a boy who would make a firstclass doctor on a farm, and he will be
always an indifferent, hall-satisfled, not wholly successful man.
Of course, in a rural district, with a
teacher, who recognizes the possibilities teacher, who recognizes the possibilities
in agriculture and respects those engaged in agriculture and respects those engaged
in it, the majority of the boys will
choose to be tarmers, especially if not discouraged by grumblings and sneerings
at home. Why should they not? They are born to it.
In all reason, however, the boy should live his life, and he is the one who must suffer if a mistake be made. The re-
sponsibility is far sponsibility is far too great for any
parent who is wise to dictate or to exercise compulsion, the more especially since, granted a fair chance, any boy of
sixteen who has sixteen who has any especial aptitude,
will be protty likely to be aware of the will be pretty likely to be aware of the
fact.
"The greatest folly which parents can commit," said Dr. Bernard Hollander, in a lecture given in England last year, "is
to force their children into callings for which they have no aptitude. It is a step that can seldom be retraced with
safety or advantage. A mistake may safety or advantage. A mistake may
destroy the health of the mind and tran-
quility of the quility of the heart.
"Otten ambition is mistaken for capac-
ity, and it is believed that if a young man only starts in life with a suffciently
vehement desire to get to the tree, he cannot fail; thus many parents
get disappointed get disappointed.
"The father who entertains a vague
and complacent conviction that and complacent conviction that he is
rearing an Archbishop, or a Lord Chancellor, or a great author, is often amaz-
ingly pleased ten years later, to learn that his lad evinces a genius for book-
keeping by double-entry." Neither should the blame be thrown wholly on the teacher, as it so often is, if a boy continues invariably on a dead
level in his classes, evincing from start to finish no predilection for any calling, no interest in anything that demands especial exercise of brain power. In the
words of the same lecturer, "Even if all had the same opportunities of education, there would always be some whose organization would at them only for the This is true, yet we should alway grant to the budding youth the benefit of the doubt. As another educator has ed with respect. How do we knowardhis future may not be superior to our And. if the youth should turn out to than that of shoe-black or kitchen-help there is no need to make his or her life miserable the more of that. He is still a human, a suffering,
human, and, the
struggling human, and, the thing most important
honest, and that it is a credit to him The great consideration give the boy an all-round chane is to into life from this starting-ground of his long race; to give him the easentials, reading, writing, and arithmetio, and let
him taste enough of other atudies, culture included, to enable him to make intelligent choice. "Make a man, and he will choose his work," said President Hibben, in his
inaugural address at Princeton a year "Make a man," by keeping the boy happy, most of his time worthy things, and or head. Play-time has its place, but, on the whole, the human brain, whether of child or adult, "gains nothing - from
repose but rest. The really buag man repose but rest. The really busy mah
of wide interests does not suffer from
overwork. The men who suffr trimp overwork. The men who suffer from exhaustion are those who work very lit-
tle, or work badly."-(Dr, Hollander,

In one respect, however, the -unconscious influence of the home may groathly,
and often deplorably, affect a boy's docision in regard to his lite-work. nothing but, money, money; money, it he sees in his own home as well as elsowhere the money god given the higheit
tbrone, if he hears constantly only spoken of as successitul who have accumulated riches, what wonder if he be was made for-aside in order that ho may plunge into whatever business may seem to offer the short
road to such "success"?
Of course, in this age of strenuous
competition, some attention given to the question of sure bread be butter, and a few extras, but probably Iow of us realize how constant and in-
sidious is the invitation to the sidious is the invitation to the youth of
to-day to barter brains, humanitarinn ism, soul itself, for the chance of being numbered with the "successful." And perhaps fewer still among us ever notice
how often we ourselves are partles to how often we ourselves are partles to
building up this idol with its head of gold and feet of clay.
We hear
We hear someone spoken of who has
gone out West, and we ask, "Has ho gone out West, and we ask, "Has ho
done well $?$ "-Not even a fool would
peuse to peuse to query, "In what way?"-A
wisest man among the wise posibly might, but he would, at the same posibly enquirer meant by the question. When a girl marries, the question immediately is, "Did she do well ${ }^{\text {In }}$ "Not, "Is he good ?" "Is he wise?" "Is he well?'-and the answer fies to the lip,a statement in regard to "his" Anancial
standing.
$\qquad$ Yes, yes, few of us who can other than
plead guilty to assisting in worship, and assisting mightily, in thio
way. People need, of course, enough money
to be independent, enough to pay thore way through the world and ensure a reasonable amount of comfort and lib-
erty. But, that assured, it is erty. But, that assured, it is suroly
better to be INTERESTED than to merely rich; better to be interesting than to be merely rich; better to know somethings of the marvels of this myaterioue
universe in which we are placed; better universe in which we are placed; bettor
to know something of the satistection of being of some use in the
world; better to have a little time world; better to have a little time enjoy with clear conscience, friends and nature, books and music, and art:-bettor all this than to be exerting every mo-
ment of time from waking to sleeping in ment of time from waking to sleeping in To quote from "'The simple Life, bhich known to many of you, and of which you have all heard: "Money will not answer lor everything; it is a power,
but it is not all-powerful. Nothing complicates life, demoralizes man, perverta the normal course of society like the de-
velopment of venality. Wherever it velipment of venality. Wherever it
reigns, everybody is duped by everybody else; one can no longer put trust fer persons or things; no longer obtain any-
thing of value. we thing of value. We would not be do-
tractors of money, but this general law must be applied to it, 'Everything in its own place.' When gold, which should be own place. When gold, which should be
a servant, becomes a tyrannical power,
affronting morality, dignity, and liberty;
when some exert themselves to obtein it.

## High Quality Builds Big Telephone Business

HIS business was organized to manufacture telephone equipment for independent, local and municipal systems. Right from the start our equipment made records for efficiency. It did not take long for onr business has grown ry leputation for quality and reliability. As a result, our grown by leaps and bounds.

It is a well-known fact that we have been securing over 80 per cent of with less effort than busine Ontario. This business, too, has been secured with less effort than business secured by competitors. The satisfaction our for easy businiess getting.

To judge how fast our business is growing, you'll remember we stated in year before. Well, this year the first two months' doubled that of the year before. Well, this year the first two months' sales tota! more than nized by those in the local telephone businesie and more is it being recognized by those in the local telephone business, that we are the legitimate
people to deal with. There are those in the telephone business terested in depreciating the success of the Independent Telephs who are inand the development of Municipal systems. On thent Telephone Movement lies wholly and directly with the independent telephone systems, and it is to our own best interests to look after these systems well, as on their success depends the growth of our business.

If you would like a list of the large Independent Telephone Systems built Ontario during the last twelve months, just drop us a line. We would be lad to send you a list of the systems, with the make of the telephones the are using. In fact, if you'll name over the large Independent Systems built during the last year in Western, Northern and Eastern Ontario, you'll find that nine out of every ten are using our telephones and equipment.

You are absolutely safe in equipping your system with our telephones We guarantee them as regards material and workmanship. In fact, we guar ur telephones for FREE TRIAL, so you can test and compare them to sen others right on your own lines before risking a dollar.

Ak for our NO. 3 BULLETIN containing the latest information our mainep

SEND FOR A COPY
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20. DUNCAN STREET

TORONTO, GANADA

## LIGHTNING RODS


ds are doing. The Seey have more reconds. THEY KNOW What
Company in a recent puthy of the Union Mutual Invurance
 , but that s2.50 was all they had ev
on damage toroded buildings by lid
ning since their organizato
1873, and in in that case the in and is that case th
a $\begin{aligned} & \text { was not proper- } \\ & \text { ly put up. }\end{aligned}$

THE SHEATTH ROD
The Universal Lightning Rod Company


## STEEL WATER TROUGHS



Send for illustrated catalogue of ". TWEED
Steel Equipments for farmers and stock
Steel trough and machine co., ltd
at any price, offering for sale what is
not merchandise; and others, possessing wealth, fancy that they can purchase what no one may buy, it is time to rise
against this gross and criminal superstiagainst this gross and criminal supersti-
tion and cry aloud to the imposture "Thy money perish with thee." The most precious things that man possesses he has
almost always received gratuitously; let almost always received gratuitously; le
him learn so to give them."

## A Sign of the Times

For the last three or four weeks our
city of London here has been overrun city of London here has been overrun
with men from afar. First there was
the Methodiat Con the Methodist Conference, then the Anglican Synod, then the big Medical
Convention, to which doctors from all over Canada came, until the problem was where to house them all.
After it all, one reflects how vastly ing. In the savage old ages such growerings as these, for the helping of humanity one way or another, were never
heard of It was "every man heard of. It was "every man for him-
self, and the devil take the hindmost," self, and the devil take the hindmost,",
so far as any concerted action for such purposes was concerned.-Bull-aights and
gladiator-fights, drinking and carousing gladiator-fights, drinking and carousing
unashamed, buccaneer attacks and briunashamed, buccaneer attacks and bri-
gand raids, fierce face to face fighting, and war a fine thing-with, no doubt, some milk of human, kindness existing
somewhere under it all. To-day there is evil, too; the mad scramble for wealth, no matter who is trodden into the very uncomportable old
bog-hole of poverty bog-hole of poverty in the race, is a
thing of which we should be ashamed, hing of which we should be ashamed,
and yet, after all-surely the world is growing better.
Some of us, it is true, get a little imwe cannot but be glad to recognize by these signs and such as they, that it is
 HAMMOCK.
Dear Junia,-Can you tell me how to
make a dustless duster? Also, can any-
one give me suggestions about making a
hammock ?
ANNIE R. M. Directions for making a dustless duster
appeared in "Scrap Bag") appeared in "Scrap Bag" of our issue
for May 22nd. This is not, of course,
the preparation used for the comerel the preparation used for the commerscial
article (which is secret), but it suffices. article (which is secret), but it suffices.
Some simply keep the ordinary duster in A strong hammock may be made of
heavy duck ticking heavy duck, ticking, or sail canvas.
Put a broad hem at each end, at least ten inches in depth, and sew it strongly with waxed shoemaker's thread, thengy put
a seam across, six inches from the end dividing the "hem" into two parts. The
outer of these divisions is to run a slat
through Cut abough. Cut circles in the inner one
about as large as a peny, and
"buttonhole" firmly with the and end, run pow put in the slats at each
holes to serve of closes-line through the to be the extremities of the what are
and your hammock is all ready
$\qquad$
$\qquad$
$\qquad$
years.
What brought me to your Yook was
Pansy's letter of June 5th, asking for
the farm. Junia thinks Pansy is over
tired. I do not. She has my pathy. like her, caine from ituated her, came from town, and am thing was new to mach like her. Every ing. I did not care about workin larmowl, but think I could have done wet ailure was laughed but my least little ailure was laughed at again and again until I became discouraged, or, shall 1 say, resented it; but 1 do love to work
with butter. I have been making butter or about twenty years, yet to this day if my husband came in while I was tend-
ing it, I would set it only find fault with my way of doing it I have a large family, and have always done my own sewing and baking,
and many a time when he was obliged to be away all day I have obliged to be away all day 1 have had his
stables cleaned and all the other chores done, yet he never acknowledged it in
any way. I did not do it yet I think that is something of praise, trouble. She never gets any credit for nyything she does, therefore she feels she not appreciated.
Now, I would like to tell Pansy that have been not $a$ few) havies brought me closer to my Heavenly. Father. I have had to go to my Bible oftener, and on
my knees for help and guidance, always take my little worries and cares to Him Who careth for us. If it were not for that, life to me would be un-
bearable, either on place. man means to think or believe that any man means to neglect his wife, but the
little acts of kindness the showed her of kindness that he first that he himself is down before he rea, lizes it, and then some women, as well as men, think it beneath them to ace their error to one another.
ONE WHO SYMPATHIZES.

## Seasonable Recipes.

 with sugar to taste, to make about apint of rather thick preserve. pie-plate with crust, then add a border of the paste about an inch wide, pressthe gooseberries, and with a fork. Add work of narrow strips of pastry, twisted over the top. Moisten the strips at each end to make them adhere. Bake in a hot oven. Serve very cold, with
cream, plain or whipped. Gooseberry Fool.-Put 1 quart green gooseberries in a jar with very little water and plenty of sugar. Put the jar is tender, then press it through a colan-
der. Add 1 quart thin cream, very gradually, pour into individual glasses, and set in a cool place until needed.
Strawberry or Raspberry Sherbet. Strawberry or Raspberry Sherbet.-
Clean 2 quarts berries,' and let come
slowly to slowly to a boil in a graniteware ves-
sel. sel. Add about-a cup of sugar.. When
soft, drain through a jelly-bag. To the juice add nearly a pint of water and the beaten whites of 2 eggs. Put all in the ice - cream freezer and freeze 15 or 20
minutes. For the packing use minutes. For the packing, use one-third
salt to two-thirds ice. Any fruit may be used in this way to make sherbet. Green Peas.-Cook the peas in just a. ing. Do not cover the kettle in which you do, they will lose their fresh. as, if color. When the peas are tender, add
a mixture of 1 tablespoon four mix with 1 tablespoon butter. Season, and Breakfast Rolls.-Put 2 quarts sifted
flour into a bread-pan of milk which has been brought pin tablespoons butter or tiard, lukewarm, 1 tablespoon
sugar, 1 teaspoon later pressed yeast, blended in a very little over night. In the morning, cut of
pieces and shape lightly between the hands into rolls of the desireed size.
Do not knead them. Put the rolls in a buttered pan and set them in a warm
place to rise. When light, brush them place to rise. When light, brush them
over the top with milk, or sugar and
water and bater Cheese Omelet (appetizing and nourish ing for those who cannot eat meat in



The Scrap Bag. When ironing waists, do the collarsleeves, then the cuffs, and, last of all, the body of the waist. This will pre-
vent crumpling. You will find it excellent to add a teaspoonful of borax and
one of turpentine to boiled or cold one of turpentine to boiled or cokd
starh. Very little stiffening is put in
either waists or dresses nowadays, exeither waists or dresses nowadays, ex-
cept in cuffs and collars; indeed, many cept in cuffis and collars; indeed, many
of the one-piece dresses and wash skirts
are not starched at all. Always iron embróidery on the wrong side over a thick pad. Iron the strip on which
buttons are sewn in the same way. ${ }_{\text {To }}$ butcons are sewn in the same way. To
iron a waist trimmed with both tucking
and embroidery, iron the embroidery or lace on the wrong side, with a narrow
"gathering" or "sleeve" iron, then turn "gathering" or "sleeve" iron, then turn
the garment over, stretch the tucking,
and iron on the right side. Have an the garment over, stretch the tucking,
and iron on the right side. Have an
ironing-board, if you have to make it ourself. Nothing so simplifies the work to SALT GREENS. Here is an idea from Pictorial Review,
Select any greens desired-young beets, Swiss chard, or spinach. Wash them
thoroughly. Have ready a large re ceptacle, a wooden one being best, al-
chave
though a though a large stone crock may be used
successfully. In the -bottom of the ves successfully. In the bottom of the ves-
sel sprinkle a layer of salt, then a layer
of greens, and continue until the jar is full. Then put on a wooden cover and
weight it. When desired for use, soak he greens over night; they will be found CORKS FOR CATSUP bottles. Boil the corks in water for twent
minutes. This will make them pliable so that they may be easily driven into
the necks of the bottles. No further pouid be necessary. POLISH FOR PATENT LEATHER. One part linseed oil, two of cream.
Apply with flannel and polish off with a
soft cloth.

> TO MAKE HARD SOAP. In a stone jar or iron pot dissolve one
can of lye with one quart of cold water, stirring with a stick. Allow solution,
which will immediately become hot, to cool. Melt six pounds of grease, tal-
low, or lard, clean and free from salt and when entirely melted, allow to coo sufficiently to bear your hand in it,
When grease becomes of this tempera solution of lye until the mixture is thor oughly combined and drops from the
stirrer the thickness of honey. Sti
thes thoroughly, but no longer than neces-
sary. Pour into wooden box lined with
muslin. $\quad$ Cover with blanket or carpet
venient shapes.
If soap is If soap is streak
stirred thoroughly stirred thoroughly.
boil with boil with one quart Cut small and re into box again and proceed as before.-
Selected. Making a Vacation Pay. ${ }_{\text {a }}^{1}$ A paper read by Miss Kate Fraser at Women's Institute.]
in our city population between thing months of June and otion between the
nervous, care-worn encer 1. Pale, touchy men, and women, too, are trans formed as if by magic. Sunburned cheeks
replace taded replace faded ones; dull, tired eyes re
gain their lustre and lager gain their lustre, and lagging steps are
quickened into vigorous ones-if the quickened into vigorous ones-if the own
ers of them can but get a vacation. There are multitudes of people in the
country, as in the city, whose work country, as in the city, whose work
would improve immensely if they could would improve immensely if they could
only learn how to renew themselves. Our mental faculties depend greatly upon
this. How quickly our courage begin this. How quickly our courage begins
to weaken the moment the brain fags One cannot expect the brain in second-
or third-class condition to do first-class or third-class condition to do first-clas
work. Most people under-estimate the tremendous importance of mental freshness. Good thinking can only come trom a clear brain, and a clear brain
depends upon pure blood, and only good depends upon pure blood, and only good
food, plenty of sleep, lots of play, healthy recreation (or work $2-$ Ed.) is the open air can make pure blood. People in limited circumstances cannot
afford to take long trips. It is not always necessary to go to a distant country for a vacation, but people might, if they just knew how, get any amount of benefit in their own homes, in our own
country,-there is no better on the People work too hard, too long hours. Many of us work so hard during the week that we do not get suffcient rest
or recreation on Sunday to get rid or recreation on Sunday to get rid
the "brain ash," the broken-down tissue from the week's work. Forced recreation for the sake of lost health amount
to very little. One has to forget drudgery; learn how to play; learn how to stop. Some peoto, are forced to, not because they wan
it. but because they think they need it, but because they think they need it,
just as one would take disagreeable just as one would take disagreeabl
medicine. Whatever their vocation may be, they have worked at it so strenuously that they are not likely to know much about any sort of pleasure or
amusement; may not be able to play games such as golf, tennis, croquet, or even cards; perhaps never acquired taste or reading or music: never travelled much. In fact, they are ignor
everything outside their business.
every, when a person like this retires,
Now, will as he will shortly, what has he to re
ire to? What he has been doing hire to? What he has been doing every now to hold him like a vise. Many of us do not turn off mental Wower after we are through for the day.
We carry it to the table, take it to bed with us, think, plan, and worry, waste energy in all sorts of ways, and so are
unfitted for the next day's work. unfitted for the next day's work.
When people are so weary and wornWhen people are so wear of resistance, and little self-control. What good is a woman, no matter
what she has accomplished or accuunuwhat she has accomplished or achieve nent with a slice of her constitution, would never have shown itself but for

her run-down condition? | her run-down condition |
| :--- |
| It is a heavy mortgage on our health | to be hustling every minute. A little call or visit to your neighbor, even, at

intervals, will count more for you than grinding every minute in your home. ing of one's acquaintances or making new friends. Sometimes, in this way,
the best things have come to us. the best things have come to us.
It is a mistake to be niggardly in the matter of our vacation. If we are, we rob ourselves of what we can never get
back Economize on anything but this. back. Economize on anything but this.
Whatever makes you better or healthier is cheap at any price.
Whether we make money or lose it, we Whether we make money or and mental
should keep up our physical
The most important invest-

## To the Farmers of Ontario

Owing to increased trade and with the aid of our large and modern
equipped plant, we have been able to considenably reduce the cost of equipped plant, we have been able to considerably reduce the cost of
manufacturing Riding Plows; and are in a position to sell our No. 3 and No. 7, similar to illustration below, at a price where YOU get advantage of this reduction in cost of manufacturing.

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Equipped with Rolling Colter
Equipped with Straight Colter...........
Equipped with Skinner and Fin. Points
$\$ 2950$
2750
(
Equipped with 30 -horse Evener Bar and Single-
 Furnished with Doubletrees and Neckyoke; extra point and wrench, TERMS:-NET CASH WITH ORDER.
GUARANTEE:-All castings broken because of defective material
during first year, replaced free. Your money will be refunded
if this plow does not do satisfactory work in practical field Thi "Parin"
This "Perrin" Plow is widely and favorably known throughout Ontario.
It is a general-purpose riding plow that will work satisfactorily in It is a general-purpose riding plow that will work satisiactorily in is so constructed that a boy can operate it.
Ask for a copy of our catalogue giving fuller information and des-
cription. A copy will be cheerfully sent you upon request, Free of
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September 5th to 13th, 1913
the great live stock exhibition
$\$ 2,000$ in cash added to the Live
Stock Prize List this year.
Some new sections and good
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Stockmen and breeders, get ready for London's Exhibition. Send to the Secretary for Prize Lists and all information.
W. J. REID, President

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A High-grade Residential School for Girls and Young Women
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Progressive Jones Says:
"Get More Bushels Per Acre"

TKNOW of farm lands in Ontario too, thatare now yield ing only 10 to 15 bush
els of wheat to the acre els of wheat to the acre They used to yield 30
to 40. What a loss to
their owners! I wonder if you have oing its duty by you. I so I strongly advise you to
make an application of Harab ting it on at the rate of about s to the acr

## Harab Fertuluzrg

will put back into your soil the plant food worn-out land will become the rich, Your making soil of former years. And all at a

Harab Fertilizers are natural Fertilizers They are manufactured from blood, bones, with the addition of Potash and just enough quick-acting Nitrates and Superphosphates to produce well-balanced Fertilizers, which feed the plant as required and develop it to
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oats, rye and other crops, and the oats, rye and other crops, and the
quantities tô use. It's a mighty quantities to use. It's a mighty I've read it myself. The Harris people assure me they'll gladly
mail you a copy free. It's up to you to show you're "A Progres-
sive."

Waws fan liggen grain erafis

- Praguessive Fanes

The Harris Abattoir Co., Limited
TORONTO. CANADA
ment we can ever make will be that developing and cultivating what will
give us interest, occupation and happi-
ness in our declining years. ness in our declining years. We wil
finally be forced out of our old rut b
age and ill health. age and ill health; it will be a grand
thing to have some interest to fall back thing to have some interest to fall back
upon for satisfaction or enjogment. There are plenty of rich, broken-down
people in this country to-day who would give half their fortunes if they could go
back and take advantage of the bitter lesson they have learned from trying to
get along without a vacation. Many a millionaire who has bartered his health
for dollars, sighs in vain for dollars, sighs in vain for that for
which his wealth cannot restore.

## Canning Fruit

 [A paper given by Mrs. Pane, at ameeting of the Sunderland branch of the Women's Institute.]
I find in canning fruit, that berries, curraints, and all small, mellow fruits,
require but little cooking, only long enough for the sugar to penetrat
through them. Allow them first to stand a few hours with sugar strewn
over them to draw out the juice, or moisten the sugar with water and let
the syrup come to a boil, then add the
truit, cook a truit, syrup come a fo a boil, then add the
feaches, and seal.
Peaches, plums, pears, and larger fruit, Peaches, plums, pears, and larger fruit,
require more cooking, say about from
twentry minut twenty minutes to
Scald jars, also tops. I always keep
a pot of boiling water on the stove and a pot of boiling water on the stove and
scald the jars thoroughly. I think the great secret of canning
fruit is to have the fruit as fresh as possible, also to cook quickly, as fruit that stands or cooks too slowly has not
as good a flavor and is not as bright
in color.
As the fruit cools, tighten the tops on
the jars and set in a cool, dark place In a. week or two examine the jars; any that are not airtight will begin to show
and will require scalding over. and will require scalding over.
Berries. currants, plums, Berries. currants, plums, and almost
any kind of fruit. can be cooked in the
jars, and to have the jars, and to have them whole. I would
recommend this way. Select the largest recommend this way. Select the largest
and firmest fruit. fill the jars, moisten and firmest fruit. fill the jars, moisten
the sugar, and let it come to the boil. and skim, then pour over the fruit. Put
on the tops and screw loosely, and have a boiler with lukewarm water ready,
with paper in the bottom to prevent with paper in the bottom to prevent
heating too quickly or breaking the jars.
Put in the jars and let boil, for berries about ten minutes; larger fruit require
longer. Lift oft the biler longer. Lift off the boiler and let cool,
tighten the tops, and set the jars away.
Peas, corn, tomatoes, and pumpkins can be canned very satistactorily,
Tomatoes.-Select nice, ripe tom put in a pan, pour boiling water over
them to remove the skin, fill the over and cook in the boiler, adding nothing
else; or coll else; or cook in a kettle and seal. By
adding salt or sugar, they will not adding salt or sugar, they will not keep
as well as if done without. $\left.\right|_{\text {Beans.-String beans are }} ^{\text {as }}$
cooking, and canned. No seasoning of
salt, pepper, or sugar, should he added Cook as corn or pugar, sho
$\qquad$ a knife, then scrape with the back of
the knife, thus leaving the cob. Fill the cans full of cut corn,
pressing it very hard. It will take from pressing it very hard. It will take from
ten to a dozen ears of corn for a quart
jar. Screw the jar. Screw the top on loosely and
place in boiler with cloth or paper in
the bottom to preven steady for three hours; lift off boiler and let cool. Take out jars and tighten
tops. Keep in a dark place. Peas. - Feill in a dans pall of peas. Shake
well, as you cill well, as you cannot press peas. Shake peas down
as you can corn. By shaking the be filled quite full. $\begin{aligned} & \text { Rhaking, they can } \\ & \text { over the peas to wate } \\ & \text { overfowing, then pro }\end{aligned}$ ceed exactly as canning corn. Another Recipe.-Eight cups of peas, 4
cups water, cup salt, 1 cup sugar.
Boil twenty minute Boil twenty minutes.
and are much handier for winter way, othan drying or trying to keep them any
othe Pineapple.-For about 6 lbs . Pruit nicely
cut in squares, make a syrup with 2 佰 3 liss. squarer. make a syrup with $2 \frac{1}{2}$ or
Add three pints of water.
Let boil. five minutes let boil two minutes. skim. add fruit,
Grapes.-Squeeze minutes, and seal.

Something Entirely New for House
keepers, Mothers and Daushters An Ideal Hot Weather Dress
The only House Dress on the market that can be worn without corsets and still keep your neat and tidy appeara


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if you wear the

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A new idea that is fast growing in
popularity. It is a real help and con popularity. It is a real help and con-
venience. Answers every purpose of work dress, house dress, yet always ond, just like a coat. Merely shifting
the belt adjut the belt adjusts the garment to any
figure instantly. Snap at the back hold the garment securely in pack holds double-breasted feature gives douce. It
vice. It has a hundred uses in ever
der vice. It
home.

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and illustrated booklet

Name
Street
Town or P.O.
Province

When the pulp seems tender, put through
Have the slikins boiling in another kettle, ; and add the pulp with large coffeecup sugar to the quart [Note, -Should be glad to know why
putting a little salt in tomatoes when putting a little sait in tomatoes when
canning tends to prevent them from canning tends
toping well. As a rule, salt is a pre servative. We may add that vegetables, with the exception of tomatoes, require very long
boiling to ensure their keeping well. boiling on three successive days is recommended. Jars, tops, and rubbers, must
be thoroughly sterilized. - Ed.]

## The Windrow

Professor Bergson has accepted the Presidency of the English Society of
Physical Research, a position which hes Physical Research, a position which has
been formerly held by F. W. H. Myers, Sir Oliver Lodge, Sir William Crookes, A. J. Baltour and Andrew Lang.

The late Alfred Austin will probably
have been the last poet-laureate of Great have been the last poet-laureate of Great Britain. The office is now looked upon
as useless and antiquated.

According to recent reports made the United States Department of Agricilture, Alagk porseses about 20,000 .
000 acres of strictly agricultural land. The climate is said to be more faverlong been under cultivation.

Many women have ontered the medical ong ago a number of Siberians sent a etition to St. Petersburg praying that lacully in the University of Tomsk.
Chere are many Mohammedan women in siberia, and only women doctors are ermitted to attend them

Infantile paralysis is now recognized ing its origin in summer when stableThese which carry the germs, are active. veather, but some of them are likely to seek shelter in houses during rainy
weather, and may bs known by their "bite." Ordinary house-flies do not bite. Sticky fly-paper and poison are
practically useless against stableflies, which live on the blood of warm-blooded nimals; the only way to reach them is by keeping manure. in which they breed, -

The centenary of the birth of Gearge orrow, who, notwitholanding the fact
that he translated the Bible into many lorgign languages is best described by the title which has been given to him,
"The Walking Lord of Gipsy Lore," was "The Walking Lord of Gipsy Lore," was
celebrated on July 5th at Norwich, Eng., where steps have been Norwich, for
the preservation of the house in which e lived while there as a permanent
orrow museum. Rorrow's peat Borrow museum. Borrow's best known
books are "Lavengro" and "Romany
Rye." are Dr. Carrel, head of the Rockefeller Institute for Medical Research, visited
Paris recently. and in a lecture there Paris recently, and in a lecture there chest to treat its organs as safely as open the abdomen able for a few years to of laparotomy. He also says that in ing for ten minutes and be revived. Already as the fruit of his research the idney can be kept alive in cold storage hoanths. Possibly one of these days
heart kept in cold storage may replace one that has to be removed. Who knows? The Independent.
"In factories where the work has been
organized and the responsibility vested in indiv:dual men, first-aid methods are geon knows a great deal that is of practaught by his predecessors of a generation or even a decade ago, and he
should be given the opportunity to bring shop met gods up to date. Take, for ex-
ample, the treatment of lacerated

## Extensive Clearing Sale of Used Cars

Must be cleared out by August 1st--the end of our year. No reasonable offer refused.
The cars offered were taken as part payment on new Knight Models. They are in good repair, with first-class equipment

1. A FULL LINE OFHIGH-GLASS GARS for ${ }^{2}$ 2. ALSO SEVERAL GOMMERGIAL pleasure, to be sold at a sacrifice. Pariculary suitable for farm and country swn e-an ex co price. TRUCKS of 1,500 lbs. capacity, in splendid shape. Excellent for convey ing produce to market, and will soon earn their cost and more by speedy
deliveries.
2. TWO AUTOMOBILE ENGINES, 4 -cylinder. Suitable for motor boats.

All must be sold before August 1st, as this stock cannot be carried into next year Full description and prices sent on request.

## RUSSELL MOTOR CAR COMPANY, Limited

100 Richmond Street West, Toronto


previously intróduced into Congress. An ncome-tax provision is planned
up for the difrerence in revenue

Two militant suffragettes, Kitty Mario
and Clara Giveen, were sentenced in io don last weokk to three years' penal servitude, on the charge of setting fire to the
Hurst Park race-course stands.

The division in China steadily increases. Yuan Shi Kai, taking adrantage of the
money secured throush money secured through the five - power
loan, continues to build loan, continues to build up his army,
and the lives of Dr. Sun Yat
Sen and other revolutionists are in constant danger from assassins.: Civil war seems

## Trade Topic

Hickman \& Scruby, live-stock exporters and commission agents, Court Lodge,
Egerton, Kent, England, write Egerton, Kent, England, write that they
have just shipped the champion Sufolk Punch stallion, Bawdsey Laddie, to Mr. McCallum Smith, Western Australia. This stallion made the highest price ever
realized for one of this breed. By the S. S. "Royston Grange," sailing from London on June 14th, they shipped
Devon bulls and 6 heifers selected Devon bulls and 6 heifers selected from
the herd of C. Morris, St. Albans, and the herd of C. Morris, St. Albans, an
10 Romney rams selected from A. J. Hickman's flock, to Alfred Hunt,
rientes, Argentina. At the same time they bought and shipped 60 bulls of the
Shorthorn, Aberdeen-Angus and Sussex breeds, together with 100 Romney rams. for an old friend, Juilo Pueynrredon, of
Buenos Aires. Buenos Aires. This is probably the
largest order from a private individual largest order from a private individual
that will come to Emgland this year.
By By the same steamer, they also shipped
15 Shorthorn bulls that 15 Shorthorn bulls that were purchased Yor G. Lawson Johnston, Cnairman o
the Argentine Estates of Bovril, Ltd Al short time back they shipped a high class Shire stallion to Clifton Chambers,
Sadorus, Ill., U. S. A., and they have now received another order from him for good Welsh pony mare. From the Gov erriment of Rhodesia they have just re ceived an order for 78 bulls, chiefly of
the Shorthorn, Hereford, North South Deron, and Lincoln Red breeds and have also received an order for 2 North Devon and 2 Hereford bulls, from
the Congo Government. They are shortthe Congo Government. They are short
ly shipping some Romney rams and Red
Poll bulls for Capt. Braga, of Mont
Videly Poll bulls for Capt. Brama, of Monte
Video. To South Africa they have re-
cently sent 2 high-class South Devo bulls, to C. W. Van der Merwe, of Laven-
grey; 8 in-calf S . Devon cows, and a
very fine heifer, to Hardion very fine heifer, to Harding \& Parker, of
Frankfort, o. F. S. S. They are also buy-
ing 3 good in-calf S . Devon heifers and
a good bull, for the Bloempontein Board
of Executors and Trust Co. To W. H. Of Executors and Trust Co. To W. H.
Weeks,of Sandflats, Cape Province, they
are sending the 2 best Lincoln Red heit-
erg are sending the 2 best Lincoln Red heif-
ers available.
Gossip.

## Duncan Brown \& Sons, breeders of Shorthorn cattle, Tona, Ont., inform us that they have sold all their bulls tha were fit for service last saring.

 have four more now that are twelve big. sappy fellows. Two of them arefrom the best milkers in the herd, and They are just the trout Creek Wonder and at reasonable prices.
John Miller, importer and breeder o
Mydesdales, Shorthorns, Cotswolds
Clydesdales, Shorthorns, Cotswolds a
Shropshires, Brougham, Ont., writes th
Shropshires, Brougham, Ont., writes that
he has sold all his bulls old enough for
service, and has just shipped one of his service, and has just shipped one of his
best fall calves to R. C. McCullough, of
Gerol Georgetown. This calf is out of Lady
Madge th, by Langford Eclipse, and her
dam was the imnorted dam was the imported Marr - bred co
Lady Madge. His sire was Imp. ong price for this calc, and Mr. Miller
thinks he will have one of the best stock In his recent impor-
tation of shepp are some of Minton \& extra gnod lot of field rams from Nock
\& Dakin. In Cotswolds., he has show
rams and ram, lambs from Houlton \&
Swanwick, and yearling show ewes and
ewe these sheep will

Attention is called to the advertise pany of Canada, which appears in anther column. Up-to-date Limited Payment Life and Endowment Policies are issued by this company, whose head office at Hamilton, Ont.

Robert Miller, Stouffille, Ont., writes: Have been doing some business all the
time, and find that better cattle are in emand, even those who live in districts here they say good prices are beyond vem, are inclined toward better animals,
ven if they cost a little more. an effort to meet the wishes of men in such districts, and in that way have secured customers that were afterwards amongst my best for high-class and higher-
priced animals. The inquiry is beginaing to come for sheep, and $I$ am prepared to furnish Clydesdales, Shorthorns, Shropshires and Cotswolds, that
will be a credit to all concerned, that will suit any pocket in any district. I have two bulls that should be at work, one of them fit to head a good price." the other a useful bull, at a low

For four entire hours the lady remaine in the shop. She had visited every de partment and worried the majority of Towards the close of the afternoon peny of the salesmen, feeling somewhat exas perated, ventured to make a mild proyest. "Madam," he asked sweetly, "ar you shopping here?"' The lady looked
surprised, but not by any means annoyed. "Certainly," she replied. "But what else should I be doing?" For moment the salesman hesitated, then
blurted out: "Well, madam, I thought perhaps you might be taking an "inventory." The the lady melted away mong the shadows by the door.
An Irishman walked into a men's fur-
nishing goods store the other day nishing goods store the other day and
said:
nournin' wear, but to get somethin' fer
Oi nournin' wear, but oi don't exactly they be wearin' now for mournin'?'
'It depends," 't depends," explained the salesman,
"on how near the relative is for whom
you wish to show this fou wish to show this mark of respect have an all-black suit. For soative, you should hot so near you mait. have a boome one
of black on band the left arm, or a some what narrower one orm, or a some
distant.". "Och! Is somedy more
dhat it ? Were thin, gimme a a Is that it? Well,
woifestring. It's mither,"

Questions and Answers. Miscellaneous.

Late Crop for Feed.
What do you consider the most profit-
able crop to be sown on or about July
15th, for late fall and early or about July
or milch cows? Is this too leeding
pate for a
Ans.-For sowing at this subliber.
Ans. - For sowing at this season, to
make cow feed, we can suggest nothing
better than millet.


MAIL CONTRACT


Cheap Hired Help for the Farm.

A Massey-Harris Engine mounted on skids can be moved around to any of power.
You will be surprised to find the many uses to which it can be put and the
small cost as compared with manual labor.

And perhaps the most intereen And perhaps the most interesting
part of it is that an Engioe costs nothing part of it is that an cagiae costs nothing
in salary" or "leep" when not
running. . The Massey-Harris Cylinder, Cylin-
der Head and Water Jacket are cast solid. There are no garkets or packed joint cause trouble in any way

- There is a large water space around the There is a large water space around ample protection from excessive heat.

Illustrated Circular for the asking. -
MASSEY-HARRIS CO., Limited Head Offices-TORONTO, CAN. Montreal, Mo Saskatoon, Yorkton, Calgary, Edmonton. Agencies Everywhere


## SWEET MILK WANTED

Shippers reauired to send milk daily in eight
gallon cans to Toronto.
Cood
prices. Write S. PRICE \& SONS LTD., Toronto
" $1900^{99}$
Gravity Washer
sent $\begin{aligned} & \text { free for one monts's } \\ & \text { Write for paraliculars. }\end{aligned}$ trial.
1900 WASHER COMPANY
357 Yonge St. $\quad$ Toronto, Ont.

| Ropestox Nos Lice Murder Chicks |  |
| :---: | :---: |
|  |  |
| Pratt Food Co. of Canada, Ltd. |  |
|  |  |

'Nothing lost here but the squeal,' deared the pork packer. 'Are you as
mical in conducting your business? 'Just about' answered the visitor. 'I'm in lumber business. We waste nothing

## OUNDED 1866

THE FARMER'S ADVOCATE


COLTIMBIA DOUBLE
DISE RECORDS
dousle value mon youn money
DO YOU NEED FURNITURE?

The Adams Furniture Co.
Umited.
MOLASSES FEEDS For Dairy Stock and Horses Write for GREE samples to CHISHOLM MILLING COMPANY

Cream Wanted
 Toronto Greamery Company, Limiteo Toronto, Ontario

What is it which you can easily put not possibly put in your right hand? one person in ten will be able to guess this unless they already know the

Chief Editor-"'Look here, Sharpe
here's a fiddler heen hanged for murder Hore s a fidier heen hanged for murder.
How shall we headline it?", Musical Editor-'"How would 'Diffeutt
Execution on One String' do ?"'


For Preserving $\rightarrow$ the ohoceet, prre ane angri,
untonched by an hand from ancouched by ony hand rom
Refinery to your K tithen-eand Fult weicirr cuananteso
 Best decolers canks, supppy. you.
st.
a big chance:"Here, hold my horse a minute, wil you ${ }^{\text {P" }}$ "
Sir "Nir I I'm a member of Congress !" take a chance.
after eating
Uncle James couldn't read. He went into an reatarant one day, and when
ho waiter handed him a biil of tare ho said : "Thankee, son, but Ah never
reads befo', meals.,"


What's The Matter With Your Butter?
Does it lose its flavor quickly? Does it acquire a bitter taste is few days?
Are you receiving any complaints about the butter s:o eeping well?
Use the salt that does make good butter every time and al

## WINDSOR <br> Womsalt

It is always the same in purity and strength. It won't cakemost delicious butter you ever tasted.
The prize-winners at all the fairs, used Windsor Dairy Saltthat's why they won all the prizes,

Questions and Answers. Veterinary.

Lame Colt.
Colt has been lame in fore leg for two
There is a swelling and sore weeks. There is a swelling and sore ness betweem knee and shoulder, whic
feels like a hard cord.
R. P. Ans.-This is either a sprain or
bruise. Keep the colt quiet in a loose bruise. Keep the colt quiet in a loose
stall, bathe the parts long and frequentstall, bathe the parts long and frequent
ly with hot water, and after bathing
rub rub well with a lotion made of 2 oz
laudanum, 1 oz. acetate of lead, an water to make pint
Contents of the Mouth of Foetus. Why is it the loal's comb or cud is in
its mouth' at birth? Why do some foals swallow it while others throw it
out? Has swallowing it any effect out? Has swallowing it any effect
upan the nourishment of the foal ? Ans.-Some foetuses, possibly all, have during the later stages of gestation a
substance that in this country is uisual substance that in this country is usual
ly galled "the bit." We do not know that it has any special function, neithe
do we think that some foals "swallow it'". In cases of very easy birth it is
often noticed in the mauth often noticed in the mouth, but in other
cases it is frequently seen among the cases it is frequently seen among the
membranes when they are expelled, while in many casos it is not seen at
all, but wie are of the all, but we are of the opinion that if
the membranes were carefully it could be found, as we do not think it is ever swallowed, hence cannot have an effect upon the nourishment of the
foal.
Cows, Lame Cows.
out on good pasture with, were turned ning on good pasture with a brook run-
through, on May 1 th.
In
two weeks they began to go lame, first on
one foot, and gradually all four. They lie a great deal, and when they rise they are stiff and sore and can hardly walk, but become a little better after walking few steps. Thave examined their feet Ans.-It would require a personal T . amination to enable a man to make a aluable diagnosis. The symptoms given
indicate rheumatism, which should be treated by keeping in dry, comfortabe
quarters at night, giving each 2 drams salicylic acid three times daily, and rubwith hot, camphorated oil. There is daily local cause for the trouble. Examine the
feet, and between the clouts well eet, and between the clouts well again,
as it may be foul - in - feet as it may be foul-in-feet, which might
be caused by walking through swampy ground, rushes, etc.
Hard Milkers.

1. Heifer calved in April. Her teats
were very large, but I could get only a
very small stream of milk. Her udder
and teats were tonder. II turned the
ald calf on but it nursed from the hind
teats only, which were a little smaller
and milked a little sharp wooden pins which I put into the
and easien I made
front toats. This caused sur front toats. This caused soreness, and
I had a serions-time with her. I got
a teat syphon but it a teat syphon but it does not work sat-
isfactorily, and when extracted I cannot get milk, as there appears to be a valve
that shuts off the calibre of the milk
duct duct.
2. 2. Another heifer calved in. April, and
I could get no milk out of front teats I passed a knitting needle, but it did
no good. Ans.- - We frequently state in. these
columns that the passing of needles,
etc int etc., into cow's teats is very liable to
be followed bv "serious complications."
ver To enlarge the opening of the milk
ducts little guta-percha plug especially for the - percha plugs, made
chased frone, can purchased from dealers in vetarinary instru
ments, but, in many cases, even thes
fail to be elfective. The fail to be effective. The irritation
caused in your case has probably caused
the formation of a growth which occludes the passage when the syphon
is withrawn. It is possible that a
veterinarinan veterinarian might operate successfully
with an instrument especially for the purpose, but wee are of the opinion that
it would be wise to get her dry as soon it would be wise to get her dry as soon
as possible and fit her for the butcher,
as she will not likely make a satisfactory milker.
1. There are tumors in the ducts. As
in No. 1 \& veterinarian might be able to operate successfully, but we think
that this case nlso should be dried and
fitted for the butcher.
tue seres sunume paine "SALADA"
Iced Tea brings no harmful results to those who useit. Cooling, refreshing and gently stimulating. Black, Mixed and Green. Sealed packets only.



## Central Canada Exhibition

## Ottawa, Sept. 5 to 13, 1913

 FREE TRANSPORTATIONFreight paid to Ottawa from last shipping point on all live stock exhibits from Ontario and Quebec. Railways will carry tunity ever offered breeders, large and small, to show animals at one of the world' great fairs.

## $\$ 20,000$ IN PRIZES

Acres of most modern pavilions filled with dazzling displays of farm implements, novel demonstration features and a splendid array of manufac-
turers' products. New $\$ 100,000$ Machinery Hall completed Two daily aeroplane flights of 10 minutes' duration grounds. Free band concerts, unrivalled vaudeville and other from the attractions. Six monster night shows-Siege of Delhi.

Entries close August 29th. Lowest rates on all railways.
Write for programme, prize list, etc, to
Write for programme, prize list, etc., to
E. McMAHON, Manager,

26 Sparks St., Ottawa

## THE COLD SIDE OF YOUR HOUSE

## An ordinary furnace

 of ten fails to heathe wind strikes.
That is because warn air travels in the line of ordinary furnace no provision is made to thor-

An ordinary furnace has a empty space between the firegrate and the circulating pipes. different. different.
surrounding the fire-grate there are from 8 to 16 heavy cast iron tubes. Each of these heat generator. The weight of these tubes in the average size

All the heat from the coal is concentrated in these heavy tubes. Once this great mass of
iron becomes hot it stays so for lion, tells all about these Zig

The James Smart Mfg. Co. Ltd. BROCKVILLE, ONT

WINNIPEG, MAN
 with easilyoperated and convenient hand evers. Each frame is carried on a large land wheel and on frrow wheels, furrow wheels, proof, self-oiling bearings.

Both furrow wheels are connected to and controlled by the pole. This arrangement results in easy guidance.
Bottoms, with knife or rolling kind of soil, are supplied to meet buyer

Write to-day for full particulars and Catalogue detailing It comes for a post card. Write to-d
COCISSHUTT PLOW CO. LIMITED IPEG
For Sale in Eastern Ond and Eastern Canada bj The FROST \& WOOD COMPANY Limited Montreal, SMITHS FALLS, St. John, N.B. 108
Electric Steel Wheels with Wide-groovel Tires
Are the ideal wheel for farm and road. Built to fit any axle or write for catalogue and prices.
ELEGTRIC WHEEL CO., 8 Elm St., Quincy, III., U. S. A. 7 Wellington St Erat 7 Wellington St East TORONTO, ONT.





 IMPORTED CLIDESDALES.
 BARBER BROS., Gatineau Pt., Que, near Ottawa. CHOICE CLYDESDALE STALLIONS AND MARES Both imporeted and Canadian bred lamy on hand at SMITH \& RICHARBSON.




Johi A. BOAG \& SON, QuELNSLLE, ONT Clydesdales for Sale G. A. BRODIE

NEWMARKET, ONT



U.S. Yearbook 1912. The nineteenth volume of the U. S.
Department of Agriculture Year-book has been printed. The edition will, as usual, e distributed by Senators, Representatives, and Delegates in Congress, as the epartment's allotment is reserved for ficial correspondents and others render The valuable voluntary service. The previous volumes, eggregatiny
$9,000,000$ copies, have been thus disributed, and those who received copies, knowing their value, will doubtless be 781 pages, 60 half-tone plates, 10 lithographic plates, and 19 text figures. The form of the Year-book being prerom year to year in its general style. The Report of the Secretary for the
fiscal year, 1912, which occupies the first 259 pages, has already appeared in separate form. Twenty-four special articles prepared by direction of the Secretary, that relate to the subjects of general in-
terest which have received special consideration during the year by experts in
the respective bureaus of the Departthe respective bureaus of the Depart-
ment, and have not heretofore been published, will be issued as separates or ex-
tracts, so as to make them available for a wide distribution to those not securing a copy of the Year-boox.
These subjects are not treated with ex-
haustive detail, as the articles are restricted in length in order that the number might be increased and a wide range
of information covered. The table of ontents of the now Year-book comprises
itles of articles on "Promising New titles of articles on "Promising New
Fruits,", by william A. Taylor and H. P. Gould; "Our Meadow Larks in Relation of Agriculture," by F. E. L. Beal; "The
Handling of Dressed Poultry a Thousand Miles from the Market," by Mary $\mathbf{E}$. Pennington; "Some Results Obtained in
Studying Ripening Bananas with the
Bin Respiration Calorimeter," by C. F. Lang on Mountain Slopes," by J. Cecil Alter "Insects Injurious to the Onion Crop," by F. H. Chittenden; Condensed and Desiccated Milk," by Levi Wells; "How
the Produce Dealer May Improve the the Produce Dealer Eay
Quality of Poultry and Eggs," by H. C.
Pierce; "A Successful Method of Marketing Vegetable Products," by L. C. Cor Haven Metcall; "Some Useful Weather Proverbs," by w. J. Humphreys; "Some Important Insect Enemies of Live Stock
in the United States,"' by F. C. Bishop: "Relation of Birds to Grain Aphides," by W. L. McAtee; "National Forest Timber for the Smail Operator," by Wiliam
B. Greeley; "Truck Soils of the Atlantic Coast Region," by Jay A. Bonsteel;
"Seed Collection on a Large Scale," by Henry H. Farquhar; "Improved Methods of Handling and Marketing Cotton," Ita
Charles J. Brand; "Dairying and It Relation to Agriculture in Semi-Aric Regions,"' by A. K. Risser; "Agriculture
in Public Crosby; '"The Settlement of Irrigate
Lands," by Carl S. Scofield; "Somie New Grasses for the South," by R. A. Oak-
ley; "Raisins, Figs, ley: "Raisins, Figs, and Other Dried worthy; "Possible Sources of Potash in the United States," by Frank K. Cameron; and The Commercial Weather Map of the United States Weather Bureau, The portion devoted to the Appendix comprises the "Review of Weather Conditions," the names of officials of the agricultural colleges and experiment sta-
tions and State officials in charge tions and State officials in charge ol
agriculture, statistics relating to agriculture, statistics culture in aspects of production, acreage, and value of crops, of the number and value of farm animals, of price of faria
products at the farm and in the wholesale market, of foreign trade in farm and forest products, and of railroad rates
for the transportation of principal farm
products.
Beginning with the earliest years for which statistics were obtained, tables are given exhibiting the acreage, production.
value, prices, exports, and imports the corn crops of the United States, and
ior all or most of the items mentioned, ior all or most of the items mentioned,
of the crops of wheat, oats, barley, rye, buckwheat. potatoes, cotton, tobacco,
flaxseed. rice, and cane These statistics provide a great variety

Horse Owners! Use Caustic 1- Balsam







## ABSOREINE

 wir reduce inflamed, swollen Joints, Sprains, Bruisee, SoBunches; Heals Boils, Po Evil, Quittor, Fistula, or
any unhealthy sore quickly a alt loa potive sortuepte
 ABSORBINE, JR., motivepte 7 Iniment for mankind,

 NOTICE TO HORSE IMPORTERS GERALD POWELL, Comminssion Agent and Interpreter Nogent Le Retrou, France, peliclume tidportarn atem ayy port pin Fronce or dilipp. French conch horieb Alili niormation abour lebre pis; , Nogent fo in the heart of the Perich

## Notice to Importers

C. CHABOUDEZ \& SON 205 rue I Payette, PARIS, PRANCE 4 you yant to buy Percheron Horiee sad
 MESSRS, HICKMAN a SCRUBY

 drat hories of alin breedi, but eppechily Percherowe:
 PERCHERONS ${ }^{-I \text { and }}$ are now on hand load of Mares which 1 recently purchased from the
beest breeder $i$ in
Ilinots
and

 F. J. Sullivan, Importer and Dealer $\frac{\text { Windeor }-\quad \text { Ont. }}{\text { TO LEASE : }}$
Two Thoroughbred Stallions
 WILLIAM HENDRIE, Hamilton, Ont. DR. BELL'S Veterinary Meficon Won. FREE to horgemen who wiil sive The Woodera

## THE NAME "FLEURY"

on a Plow means GOOD WORK in the field, LIGHT DRAFT for horses, COMFORT for plowman-"EVER THE No. 21 PLOW, and the ONLY MANUFACTURERS of the ORIGINAL No. 21 PLOW, and the ONLY MANUPACTURERS of the ORIGINAL Canada. In general, imitataons are inferior-so it is is in Plows. ©uy only the original. When other manufacturers advertise a No. 21 Plow,
it is a testimonial to FLEURY'S FAMOUS ORIGINAL No. 21 PLOW,


FAMOUS FLEURY PLOWS
No. 21 "DANDY", No. 13 and 15 A (one horse) surpass all others in
lightness of draft, ease of holding, quality of work in the field.
J. FLEURY'S SONS

JOHN DEERE PLOW CO., OF WELLAND, 77 Jqrvis Street, TORONTO, ONTARIO
Medals and Diplomas-World's Fairs, Chicago and Paris.

## WOOL <br> We pay highest prices Sor WOOL, HIDES, too small. Ship direct to us Write

John Hallam, Limited
111 E. Front St., Toronto
The largest in our line in Canada.


Lump Rock Salt, 810 for ton lots, fo.b. Toronto.

Farnham Oxfords and Hampshires

 Also
-Phone Guen ry Ar Mell \& SON,

Alloway Lodge Stock Farm ABERDEEN-ANGUS CATTLL
SOUTHDOWN SHEEP
Now is the time to select your sire for use this fall.
The first choice is guaranteed to those ordering ROBT. MCEWEN. Send for circular and prices to $\begin{gathered}\text { Byron, Ontario }\end{gathered}$ MINSTER FARM
 R. O. MORROW \& SON, Hilton, Ont. Brighton Sta., phone.
Morriston Tamworths and Shorthorns
herds of England; have a choice tot of young pigs,
herds of England; have a choice lot of young pigs,
both sexes. pairs no akin; and also the dual lipr.
pose Shorthorns. Satisfaction guaranteed.
Tamworths ${ }_{\text {some }}^{-\mathrm{A}}$ few bred sows; also liters, ready to wean.
HERBERT GERMAN $\qquad$ St. George, Ont

## WERE YOU THINKING OF

## ROOFING?

WELL, that's our own particular business. Galt Steel Shingles will make your buildings water proof, windproof, weatherproof and fire proof,

What's more-they are cheaper in the long run than wood or slàte, can be laid for one-half the cost of laying wood shingles, or one-sixth the cost of laying slate.

We have some intensely interesting and valuable information to send you regarding this subject of roofing. A post card re quest will bring it by return mail.

Simply scribble the one word, "Roofing" on the back of a post card, together with your name and address. If you haven't a post card handy, tie a string around your finger so you'll be sure to remember.

ADDRESS
The Galt Art Metal Co., Limited 252 Stone Road, Galt, Ont.

[^1]
## Questions and Answers.

 Mibcellaneous.Pasteurizing Whey.
Would it be a paying proposition to.
pasteurize whey for hogs that are fed at pasteurize whey for hogs that aro fed at
a cheese factory? N. M. K. a cheese factory? $\quad$ N. M. K.
Ans.-In our judgment it would pa Ans.-In our judgment it would pay
to pasteurize whey to be fed to hogs at
the factory. the pasterizize whey to be fed to hogs at
the factory. Such a method properly carried out would eliminate the possi-
bility of convering disease bility of convering disease germs, especially those of tuberculosis to the
hogs when mixed whey is fed White Grub
Would you please answer through "The Farmer's Advocate" what is the cause
of my strawberry plants being eaten off by a white grub with yellow head, about Ans.-The grub is the ordinas. M. Ans.-The gruh is the ordinary white
grub larva of the May beetle or June grub
bug. These bugs take from or
two to three years to develop from the egg to the mature beetle. The eggs are laid by the female in sod or grass land, and
the young grubs live on tes roots of the grass and other plants. The best way to avoid their injury in strawberry plantations is not to plant strawberries It is best to grow potatoes or some such crop on the land for a year or two before planting strawberries. About
the only way to deal with the only way to deal with them in a dig out the larvae, and destroy them whenever dead plants indicate their
Gravel and Cement for Building 1. How much gravel and cement
would it take for a wall 5 ft . by 1 st . by 2 ft.? 2. How much gravel would a box
hold, the box being 40 inches by 10 feet by 10 inches. 3. How much lumber would it take
to side a building without the gables, $50 \mathrm{ft}$. by 15 ft . by 6 ft .?
4. Which is the 4. Which is the best, a hip roof or an
ordinary one? ordinary one?
Ans. -1 . Such a wall will contain 150 cubic feet. In estimating gravel to be provided, add one-fifth for compression
and waste. and waste. This would figure out to
180 cubic feet. or between 180 cubic feet. or between one and
third and one and a half cords. Th cement mixed one to eight-would come to about $12 \frac{1}{4}$ cubic feet. Perhaps th amount of gravel actually scraped up
and used would require only about 20 cubic feet of cement. Four cubic fee of cement equal a barrel, so that about five barrels of cement would be needed
2. 27.7 cubic feet if 2. 27.7 cubic feet, if if full or
practically a cuhic yard. There are 128 cubic feet in a cord.
3. About
4. Opinions differ, but the so-called hip or gambrel roof is generally pre and partly because the mow can be fille slings.

Sulphur in Well.
I have a well in which the water has
gone bad. The well was put down haver thirty years ago, and had first-class water until 1912. When it got tainted the winter it got all right again, but in this spring has gone bad again. Could someone tell me of some way or what again to make the water all right Ans.-There must be a sulphur W. R.
in close proxing
have have always heen there, but, up to the
time when the way have had its outlet in another direc-
tion, and this outlet blocked from some cause or it may not the spring blocked, but the water from channel which leads have found a new strange that the water is all right in possible that had in summer. Is it
ane sulphur water is running in from the surface, or at a point
in the ground not below the If this were so winter freezing might stop the channel or turn the water in
another direction. Further another direction. Further than to
advise you to clean out the thoroughly and see if out the well
the entrance can locate the entrance of the sulphur, wo can
suggest nothin suggest nothing. Have any of our
readers had any experience with trouble

JULY 10, 1913.


Will kill every fly in your house or store. Allyou have to do is to get theflies to the Pads.
Directions in each packet show how to do this.

## The Call of the North

Do you know of the many advanmillons of fertile acres, offers to the prospective settler ? Do you know
that these rich agricultural lands, obainable free, and at a nominal cost, are already producing, grain and vege-
tables second to none in the world. For literature discriptive of this
great territory and for information
na o terms, homestead regulations, set-
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Director of Colonization Parliament Bldes., TORONTO, ONT.

## CUNARD LINE

Canadian Service IMMIGRATION DEPARTMENT Special Interest to Farmers' Clubs We secure "Help" for farmers from the country districts of the British Isles Copies sent on mpplication. Average time to get your "Help," about six
weeks. No fee charged. Only regular weeks. No fee charged. Ony regular this summer or fall if you send require ments early.
Write for
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Memorul Bells a Speciaty
Mcshane bell foumory co.ont, ataly
 PATEITS BCourive memici
 When writhlag mantion Adroceatit
'THE FARMER'S ADVOCATE.
Corns in Horses. The term corns is applied to nearly al
ruises of the rear half of the horse's bruises of the rear half of nearly al
hoof. Therse's is a rupture of the blood
vessels vessels from injury, pressure from an im-
properly -fitted shoe, or permitting the shoe to remain on for mormitting the than five
weeks. Corns are apparent to the ey as yellowish, reddish, or bluish-red dis
coloration of the horn of the sole dind
white coloration of the horn of the sole and
white line. The horn tubes are pene-
trated by vessel. The discoloration may be so
slight that slight that if the foot be improperly
pared the corn may be entirely overlooked. We have corns of the wall, sole and bars. Corns aflect principally the
inner half of the hoof, and the fore feet are almost exclusively the seat. fore feet are two reasons for this:
greater part of the body weightort the ond, because the heel of the fore foot is first placed upon the ground during prog-
ress, thus receiving much mare concus sion than the heels of the hind feet. There are three different kinds of corns:

1. Dry corns. This type is dry, and 1. Dry corns. This cype is dry, and
seldom causes lameness. 2. Suppurating corns. Considerable
pus is formed, causing severe lameness. 3. Chronic corns. This type is either soft, moist, or lardy, and there is an
intermittent lamen intermittent lameness, aggravated by im-
proper shoeing. Some feet a
viz., narrow, deformed hools, do corns,
of the limbs, badly trimmed, wide, flat
of feet, excessively weakening the wide bars
and frog, permitting the tol long, shortening one quarter too much, so that the foot is unbalanced, shoeing a heavy hirse with too light a shoo,
thus permitting the shoe to spring down on the heel. Permitting the feet to become too dry and brittle, thus reducing
the elastic properties of the horn. Nailthe elastic propertles of the horn. Nail-
ing the shoe too lar back, thus prevent-
ing the natural ing the natural spread of the hool, when
placed upon. the ground. Applying the
shoe too hat whil shoe too hot while being atted. Insumf-
cient concavity of the shoe in Horses which have never been shod raerely have corns, thus proving that corns are due to errors in shoeing.
paring the hool to the cause by shorten the toe and cut down the quarters if too high. Put on a level shoe.
If calks must be used If calks must be used, use both toe and
heel calks, never toe without heel, heel calks without toe, unless for a spe cial purpose. A leather sole should al-
ways be used under the sho ways be used under the shoe, and place
a dressing over the sole of the following mixture: Pine tar, eight ounces: Venice turpentine, one ounce; spirits camphor, one ounce; compound tincture benzoin,
two ounces. Mix and smear plentifull two ounces. Mix and smear plentifully
over the sole, aater which apply oakum and the leather pad.
When there is a suppurating corn, the
shoe should be left ofl for several days and drainage for the pus established
poultices of flaxseed should be applied in which has been placed about two ouncee of creolin. When the lameness has been shod, using a bar shoe with a leather sole and the above dressing. The afte care of the hoof consists in keeping it cool, moderately moist and pliant.-[R. College.]
exhibition dates
Canadian Industrial Exhibition, Winn peg, Man., July $8-16$.
Dominion Exhibition,
July 15-25
Regina, Saakk., July 26 to August 2 Saskatoon, Sask., August p-8. Cobourg Annual Horse Show. Augus 12-16.
Canadia Canadian National, Taronto, ugust 23 to Septembber 8.
Canada Central, Ottawa, ont., Sept. 5 -13.
Western
Fair, London, Ont., Sept. West

The Scottish Farmer reports the sail ing of Dr. T. H. Hassard, of Markham,
Ontario, with a dozen high-class Clydes dale stallions and fillies, and as many Percherons.


It is like putting money in the Bank to USE HOMESTEAD FERTILIZERS

F VERY bushel raised in excess of the usual crop means that much gained and gives you a great advantage over those who farm by old methods and do not feed their crops. By building up the fertility of the soil you directly make more profit and at the same time increase the value of your farm. You gain at both ends. Land value is based upon the productiveness of the soi!. Therefore fertilize and increase its productiveness.
high grade fertilizers are always the most profitable fertilisers, Good high grade fertilizers are always the most profitable to use. We have
spent fifty years and a great deal of money to find out how to make the right kind of fertilizers for all crops, and the farmer cannot wong when using them.

Write us and we will tell you more. We want agents for unoccupied territory under our consign-
ment contract.

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## NATCO EVERLASTING SILOS

need no insurance - because they are permanent. They annot burn; they will not blow over; last a lifetim
Built of Hollow Vitrified Clay Blocks

 Any Mason Can Build a Natco Everlasting Sillo
 eak Kleet snow, heat, cold, and fire. And the Kant-
Write for sampos the seams without cement
The Barber Aamples and the Good Roof Guide Book, free


## An "Empire" Separator Pays Its Cost Six Times in Eleven Years with Twelve Poor Milk Cows

0N June 19 we showed you here how one of the famous "Empire" Separators could pay for itself and earn years of service.
We want to sell you an "Empire," partly because it can do this with 12 very poor milk cows, giving very poor milk, and very little milk.

This eomparison means in effect that an "Empire" is a paying machine to tions. It will very worst dairying condiand use an "Empire.

The underlying reason for this is that the "Empire"' design is based on proper mechanical principles for a cream separator. One of the hardest things to build is a good separator, Scores and scores have been designed, have been sold for a year or two, then have failed

The "Empire" has been used many, many years. Grandfathers of presentSeparators "Empire" after "Empire" has been bought for one fom with years of service for each machine before the next has replaced it

If you are anxious to get the most out of your farm, the "Empire" has a out of your farm, the "Empire" has It makes possible farm profits that are impossible with the creamery or the cheese factory.

If you are within shipping distance of a city, it pays to ship cream and whole milk. By using an "Empire" Separator, you skim your whole milk while warm, and have the warm milk for calves, pigs and chickens.

You feed your heifer calves fresh warm skim milk, and affect that calve's future milk production infinitely for the better as to quality and quantity than when you feed cold, skim milk, milk partly turned, milk icy cold from the factory. or milk return

In th
In the meantime, your separated cream is a much less bulky package quicker to ship, less costly for handling and freight, and easier to handle
The skim milk, fresh and warm, pays to feed to young pigs. Litters of pigs must show constant and rapit
growth. Check this growth ceven once and 100 lbs . of pork will cost you $\$ 4.00$ in feed thereafter, where before it woukl have cost you only $\$ 2.50$ to $\$ 3.00$. U'se milk.
The skim milk pays when fed to
hens and chickens-especially to hens hens and chickens-especially to hens. Earlier egg production, and more egg
production both pay materially. There production both pay materially. There
is many a farm in Ontario in which the is many a farm in Ontario in which the
only cash for months is the egg money only cash


By having an "Empire," and separating your milk, you get a constant income from cream, and use the milk to get an increased income and a lengthened season from the poultry, to get an increased income from hogs, to get get heifers that will become heavy to ers, either for grading up your dairy stable or for sale.

It pays to own on "Empire" Separator. Go down south to the state of New York. It is full of abandoned cheese factories. It is full of prosperous farms.
Visit one of these farms. You will find they own separators-very many of these are "Empire" Separators. These profit-cattle of them ship their milk, but most of hem ship cream to the cities, and especially to New York city.

These men are feeding their farm produce to stock, and getting $80 \%$ of it back as fertilizer to go on the land, and enrich their fields. As much of their produce as possible is farm fed-what they sell is the highest-priced farm products they can grow.
Without the cream separator, the quality of these products would be imnssible. The steady income all the

We want to see every one of ou customers run his farm to the very limit of productive efficiency. The"Empire" plays a big part in this effective farm operation. Even an ordinary separator can play a big part, but an "Empire" will run better and give a longer service because of its construction.

Supposing you plan out the way you warm, skim milk to the use fresh, clean tage as a feed.
Lay out a plan by which you will go more into beef and dairy farming and less into straight grain farming. Work this beef and dairy farming in such a way as to give you a better income and an all-the-year income.
Buy an "Empire". Separator and have that expense out of the way for 10 to 15 years, besides making the new plan possible.
Write us a letter. Tell how many cows you have. We will tell you in will need, and what it will cost you. you If you want to buy an "Empire" ask for our SPECIAL EMPIRE OFFER.
If you want to trade in your present eparator for a long-service "Empire," ask for our EMPIRE EXCHANGE If you w
If you want to try an "Empire," ask or our "EMPIRE TRIAL OFFER.' We will send you our offer for your consideration, suited to your needs as gearly as we can judge for the size of

If you have only ONE cow,
separator for you known we have "Baltic." for you known as the This machine is used on the small mountain farms of Sweden, famous for butter and cheese.
Even with one cow the "Baltic" lets ou obtain the advantages of cream sepration at a corresponding size of invest-

In this case, write for our BALTIC

We have open for you a way to make your farm pay you better during the ext 10 to 12 years. The first step write us for the particular "Empire" Aler or Baltic offer you need. The aterial is shown in this advertisement, in the Advocate of June 19.
ully. Put all your Weigh them careinto the facts given. Then judgment garding the "Empire" Separator you

The Empire Cream Separator Co. of Canada, Ltd.
77 King St. E., TORON'TO


[^0]:    When planning that new harn don't forget
    few smail hinzed doors in the ends to give fre

[^1]:    
     ELMHURST LARGE ENGLISH BERKSHIRES
     Cloverdale Berkshires
    
    
    

